

Αναλυτικό Βιογραφικό Σημείωμα Καθηγητή Γεράσιμου Λυμπεράτου



Γέννηση: 5 Οκτωβρίου, 1958 (Αθήνα)

Οικογενειακή κατάσταση: Έγγαμος (Μαρία Ξύγκη),
Τέσσερα παιδιά (Χριστίνα, Άννα, Κοσμάς, Βασίλης)

Διεύθυνση : Γραφείο

Σχολή Χημικών Μηχανικών
Εθνικό Μετσόβιο Πολυτεχνείο
Πολυτεχνειούπολη Ζωγράφου
Αθήνα 15780
Τηλ. 2107723256
Fax: 2107723155
Κινητό: 6944363881

Οικία

Επτανήσου 4α
Χαλάνδρι
Αθήνα
GR 15231
Τηλ. 2106745965

E-mail: lyberatos@chemeng.ntua.gr

Skype: gerasimos_lyberatos

Κύρια απασχόληση: Καθηγητής Σχολής Χημικών Μηχανικών
Εθνικό Μετσόβιο Πολυτεχνείο

Άλλες θέσεις/λειτουργίες:

- Συνεργαζόμενο μέλος ΔΕΠ ΙΤΕ/ΙΕΧΜΗ
- Δημοτικός Σύμβουλος Χαλανδρίου, ενταλαμένος για την κυκλική οικονομία
- Ιδρυτής και Αν.Πρόεδρος Ελληνικού Υδατικού Συνδέσμου
- Associate Editor, Waste and Biomass Valorization (SPRINGER)

Εκπαίδευση:

- Λύκειο: Κολλέγιο Αθηνών, Ιούνιος 1977
- Bachelor of Science στη Χημική Μηχανική,
Massachusetts Institute of Technology, USA, June 1980
- Masters of Science στη Χημική Μηχανική

California Institute of Technology, USA, Ιούνιος, 1982

- PhD στη Χημική Μηχανική, California Institute of Technology, USA, Ιούνιος 1984

Τίτλος διδακτορικής διατριβής: "*Dynamic and Steady-State Bifurcation for Modeling Chemical Reaction Systems*", Επιβλέπων: Prof. James E. Bailey

Παρελθούσες Θέσεις:

- Editor, Journal of Hazardous Materials (ELSEVIER)
- Associate Editor, GNEST Journal
- 2005-2017, ΣΕΠ, Ελληνικό Ανοικτό Πανεπιστήμιο στο Μεταπτυχιακό Πρόγραμμα «Διαχείριση Αποβλήτων» (τα πρώτα χρόνια και Ακαδημαϊκός υπεύθυνος, επίσης συντονιστής ενότητας «Διαχείριση στερεών αποβλήτων» μέχρι το 2016)
- Σεπ.1993 – Ιούλιος 2011, Καθηγητής Χημικών Μηχανικών, Πανεπιστήμιο Πατρών
- Σεπ.1999 – Αυγ.2003 Πρόεδρος Χημικών Μηχανικών, Πανεπιστήμιο Πατρών
- Σεπ.1994-Αυγ.1997, Αντιπρύτανης του Πανεπιστημίου Πατρών
- Ιούλιος 1990-Σεπ.1993, Αναπληρωτής καθηγητής, Πανεπιστήμιο Πατρών
- Αυγ. 1988-Ιούλιος1990 , Associate Professor(tenured), University of Florida, USA
- Δεκ. 1983-Αυγ. 1988, Assistant Professor, University of Florida
- 1981-1982, Teaching Assistant, California Institute of Technology

Ξένες Γλώσσες:

- Αγγλικά (άριστα)
- Γαλλικά (καλά)
- Γερμανικά (καλά)
- Ισπανικά (μέτρια)
- Ιταλικά (λίγα)

Μέλος στα:

- International Water Association
- International Solid Wastes Association
- Ελληνική Εταιρεία Διαχείρισης Στερεών Αποβλήτων
- Ελληνική Εταιρεία Βιοτεχνολογίας
- Μικροβιόκοσμος
- Τεχνικό Επιμελητήριο Ελλάδος
- Πανελλήνιος Σύνδεσμος Χημικών Μηχανικών
- Ελληνικός Υδατικός Σύνδεσμος
- Γεωργική Ακαδημία Αθηνών

Συγγραφικό έργο:

- 266 δημοσιεύσεις σε διεθνή επιστημονικά περιοδικά με κριτές
- 433 συμμετοχές σε επιστημονικά συνέδρια (361 διεθνή)
- 4 βιβλία
- 13 κεφάλαια σε βιβλία

H index SCOPUS: 57

SCOPUS 11805 αναφορές

Επίβλεψη διατριβών:

40 διδακτορικές (συμπληρωμένες)

36 Μάστερ

1. ΕΡΕΥΝΗΤΙΚΟ ΕΡΓΟ

A. Δημοσιεύσεις σε διεθνή περιοδικά με κριτές

1. Abulesz, E.M. and Lyberatos, G., "Novel Approach for Determining Optimal Regimen for Cancer Chemotherapy," *Int. J. Systems Science*, v. 19, pp. 1483-1497, (1988).
2. Abulesz, E.M. and Lyberatos, G., "Periodic Impulse Forcing of Nonlinear Systems: a New Method," *International Journal of Control*, 48, pp. 469-480, (1988).
3. Abulesz, E.M. and Lyberatos, G., "Periodic Operation of a Continuous Culture of Baker's Yeast," *Biotechnology and Bioengineering*, v. 34, 741-749, (1989).
4. Abulesz, E.M. and Lyberatos, G., "Periodic Optimization of Microbial Growth Processes," *Biotechnology and Bioengineering*, 29, pp. 1059-1065, (1987).
5. Aggelis G., Ehaliotis C., Nerud F., Stoychef I., Lyberatos G., Zervakis G.I., "Evaluation of white-rot fungi for detoxification and decolorization of effluents from the green olive debittering process", *Applied Microbiology and Biotechnology*, 59, 353-360, (2002)
6. Aggelis G., Gavala H.N. and Lyberatos G., "Combined and separate aerobic and anaerobic biotreatment of green olive debittering wastewater", *Journal of Agricultural Engineering Research*, 80, 3, 283-292, (2001)
7. Alexandropoulou, M., Antonopoulou, G., Ntaikou, I., Lyberatos, G. "The impact of alkaline/hydrogen peroxide pretreatment on hydrogen and methane production from biomasses of different origin: The case of willow sawdust and date palm fibers", *SUSTAINABLE CHEMISTRY AND PHARMACY* 32, art. No. 100971, (2023)
8. Alexandropoulou M., Antonopoulou G., Lyberatos G., "Modeling of continuous dark fermentative hydrogen production in an anaerobic up-flow column bioreactor", *CHEMOSPHERE*, 293, art. No. 133527, (2022)
9. Alexandropoulou, M., Antonopoulou, G., Lyberatos, G., "A novel approach of modeling continuous dark hydrogen fermentation" , *Bioresource Technology*, 250, pp. 784-792, (2018)
10. Alexandropoulou M., Antonopoulou G., Ntaikou I., Lyberatos G., "Fungal pretreatment of willow sawdust with *Abortiporus biennis* for anaerobic digestion: Impact of an external nitrogen source», *Sustainability*, 9 (1), 130, (2017)
11. Alexandropoulou M, Antonopoulou G., Ntaikou I and Lyberatos G. "Using *Leiotrametes menziesii* and *Abortiporus biennis* for biological pretreatment of willow sawdust for enhancing biogas production". *Journal of Environmental Management* Volume 203, Part 2, 1, Pages 704-713 (2017)
12. Alexandropoulou M., Antonopoulou G., Trably E., Carrere H., Lyberatos G., "Continuous biohydrogen production from food industry wastes: Optimization of operational parameters and microbial community analysis", *Journal of Cleaner Production*, Volume 174, Pages 1054-1063, (2018)
13. Alexandropoulou M., Antonopoulou G. and Lyberatos G. "Food industry waste's exploitation via anaerobic digestion and fermentative hydrogen production in an up-flow column reactor". *Waste and Biomass Valorisation Journal*, 7(4), 711-723 (2016)
14. Alvarado-Morales, M., Gunnarsson, I.B., Fotidis, I.A., Vasilakou, E., Lyberatos, G., Angelidaki, I., "Laminaria digitata as a potential carbon source for succinic acid and

bioenergy production in a biorefinery perspective”, Algal Research, Volume 9, Pages 126–132, (2015)

15. Antoniou, P., Hamilton, J., Koopman, B., Jain, R., Holloway, B., Lyberatos, G. and Svoronos, S.A., "Effect of Temperature and pH on the Effective Maximum Specific Growth Rate of Nitrifying Bacteria," Water Research, v. 24, pp. 97-101,(1990).

16. Antonopoulou, G.; Papadopoulou, K.; Alexandropoulou, M.; Lyberatos, G., «Liquid hot water treatment of woody biomass at different temperatures: The effect on composition and energy production in the form of gaseous biofuels», Sustainable Chemistry and Pharmacy,18, art. No. 101485, (2024)

17. Antonopoulou, G.; Bampos, G.; Ntaikou, I.; Alexandropoulou, M.; Dailianis, S., Bebelis, S.; Lyberatos, G. "The biochemical and electrochemical characteristics of a microbial fuel cell used to produce electricity from olive mill wastewater", ENERGY,282, art. No. 128804, (2023)

18. Antonopoulou, G ; Vayenas, D ; Lyberatos, G, "Biogas Production from Physicochemically Pretreated Grass Lawn Waste: Comparison of Different Process Schemes", Molecules, 25, 2, (2020)

19. Antonopoulou, G ; Ntaikou, I ; Bebelis, S ; Lyberatos, G , "On the evaluation of filtered and pretreated cheese whey as an electron donor in a single chamber microbial fuel cell", BIOMASS CONVERSION AND BIOREFINERY, 11, 633-643, (2021)

20. Antonopoulou, G ; Alexandropoulou, M ; Ntaikou, I ; Lyberatos, G, "From waste to fuel: Energy recovery from household food waste via its bioconversion to energy carriers based on microbiological processes", SCIENCE OF THE TOTAL ENVIRONMENT, 732, 139230. 10.1016/j.scitotenv.2020.139230, (2020)

21. Antonopoulou I., Kampranis A., Ntaikou I., Lyberatos G., "Enhancement of liquid and gaseous biofuels production from Agro-Industrial Residues after Thermochemical and Enzymatic Pretreatment, *Frontiers in Sustainable Food Systems*", doi 10.3389/fsufs.2019.00092, (2019)

22. Antonopoulou G., Ntaikou I., Pastore C., di Bitonto L., Bebelis S., Lyberatos G., «An overall perspective for the energetic valorization of household food waste using microbial fuel cell technology of its extract, coupled with anaerobic digestion of the solid residue», Applied Energy, v.242, 1064-1073, (2019)

23. Antonopoulou G. and Lyberatos G, «Effect of Pretreatment of Sweet Sorghum Biomass on Methane Generation», Waste Biomass Valor v.4, p.p. 583–591, (2013)

24. Antonopoulou G., Gavala H., Skiadas, I.V. and Lyberatos G., "Effect of substrate concentration on fermentative hydrogen production from sweet sorghum extract", International Journal of Hydrogen Energy, v.36, 8, p.p.4843-4851, (2011)

25. Antonopoulou G., Gavala H., Skiadas, I.V. and Lyberatos G., "Modelling of fermentative hydrogen production from sweet sorghum extract based on modified ADM1", International Journal of Hydrogen Energy, 37,1, 191-208, (2012)

26. Antonopoulou G., Gavala H., Skiadas, I.V. and Lyberatos G., "ADM1-based modeling of methane production from acidified sweet sorghum extract in a two stage process", Bioresource Technology, , 106, 10-19, (2012)

27. Antonopoulou G., Gavala H., Skiadas I.V., K. Agelopoulos and Lyberatos G., "Biofuels generation from sweet sorghum: fermentative hydrogen production and anaerobic digestion of the remaining biomass", Bioresource Technology 99 110–119, (2008)

28. Antonopoulou G., Ntaikou I., Gavala H.N., Skiadas I.V., Angelopoulos K., Lyberatos G. *"Biohydrogen production from sweet sorghum biomass using mixed acidogenic cultures and pure cultures of Ruminococcus Albus"*, Global NEST, Vol.9 Issue: 2 Pages: 144-151 (2007)
29. Antonopoulou G., Stamatelatos K., Lyberatos G. *"Exploitation of rapeseed and sunflower residues for methane generation: the effect of pretreatment"*, Chemical Engineering Transactions, v.20, 253-258, (2010)
30. Antonopoulou G., Stamatelatos K., Venetsaneas N., Kornaros M., and G. Lyberatos, *"Biohydrogen and Methane Production from Cheese Whey in a Two-Stage Anaerobic Process"*, Ind. Eng. Chem. Res. 2008, 47, 5227–5233, (2008)
31. Antonopoulou, G., Gavala, H.N., Skiadas, I.V., Lyberatos, G. *"Influence of pH on fermentative hydrogen production from sweet sorghum extract "*, International Journal of Hydrogen Energy, 35(5), pp.1921-1928, (2010)
32. Antonopoulou, G., Stamatelatos, K., Bebelis, S., Lyberatos, G. *"Electricity generation from synthetic substrates and cheese whey using a two chamber microbial fuel cell"*, Biochemical Engineering Journal, 50 (1),p.p.10-15 (2010)
33. Antonopoulou, G., Dimitrellos, G., Beobide, A.S., Vayenas, D., Lyberatos, G., *"Chemical Pretreatment of Sunflower Straw Biomass: The Effect on Chemical Composition and Structural Changes"*, Waste and Biomass Valorization, Volume 6, Issue 5, pp 733-746, (2015)
34. Antonopoulou, G., Gavala, H.N., Skiadas, I.V., Lyberatos, G., *"The Effect of Aqueous Ammonia Soaking Pretreatment on Methane Generation Using Different Lignocellulosic Biomasses"*, Waste and Biomass Valorization, Volume 6, Issue 3, pp 281-291, (2015)
35. Antonopoulou, G., Alexandropoulou, M., Lytras, C., Lyberatos, G., *"Modeling of Anaerobic Digestion of Food Industry Wastes in Different Bioreactor Types"*, Waste and Biomass Valorization, Volume 6, Issue 3, pp 335-341, (2015)
36. Antonopoulou G., Vayenas D. and Lyberatos G. *"Ethanol and hydrogen production from sunflower straw: The effect of pretreatment on the whole slurry fermentation"*. Biochemical Engineering Journal. Biochemical Engineering Journal, 116, pp. 65-74, (2016)
37. Apostolopoulos, I., Bampos, G., Beobide, A.S., ...Lyberatos, G., Antonopoulou, G., *"The effect of anode material on the performance of a hydrogen producing microbial electrolysis cell, operating with synthetic and real wastewaters"*, Energiest, 14(24), 8375, (2021)
38. Bampalioutas, K., Vlysidis, A., Lyberatos, G., Vlyssides, A, *"Detoxification and methane production kinetics from three-phase olive mill wastewater using Fenton's reagent followed by anaerobic digestion"*, Journal of Chemical Technology and Biotechnology", v.94, 1, 265-275 (2019)
39. Ben Atitallah, I.B., Ntaikou, I., Antonopoulou, G., Bradai, C., Mechchi, T., Lyberatos, G. *Effect of alkaline/hydrogen peroxide pretreatment on date palm fibers: induced chemical and structural changes and assessment of ethanol production capacity via Pichia anomala and Pichia stipitis* BIOMASS CONVERSION AND BIOREFINERY,12, 443-489,(2022)
40. Ben Atitallah, I.; Antonopoulou, G.; Ntaikou, I.; Soto Beobide, A.; Dracopoulos, V.; Mechichi, T.; Lyberatos, G., *"A Comparative Study of Various Pretreatment*

Approaches for Bio-Ethanol Production from Willow Sawdust, Using Co-Cultures and Mono-Cultures of Different Yeast Strains”, MOLECULES, 27, 4, art. No. 1344,(2022)

41. Ben Atitallah, I ; Ntaikou, I ; Antonopoulou, G ; Alexandropoulou, M ; Brysch-Herzberg, M ; Nasri, M ; Lyberatos, G ; Mechichi, T, «Evaluation of the non-conventional yeast strain *Wickerhamomyces anomalus* (*Pichia anomala*) X19 for enhanced bioethanol production using date palm sap as renewable feedstock”, RENEWABLE ENERGY, 154, 71-81, (2020)

42. Ben Atitallah I., Antonopoulou G., Ntaikou I., Alexandropoulou M., Nasri M., Mechichi T., Lyberatos G., “On the evaluation of different saccharification schemes for enhanced bioethanol production from potato peels waste via a newly isolated yeast strain of *Wickerhamomyces anomalus*”, Bioresource Technology, 289, 121614, (2019)

43. Blika P., Stamatelatos K., Kornaros M. and Lyberatos G., “*Anaerobic digestion of olive mill wastewater*”, Global NEST Journal, Vol.11,p.p.364-372, (2009)

44. Bolzonella D., Battista F., Cavinato C., Gottardo M., Micolucci F., Lyberatos G., Pavan P., “*Recent developments in biohythane production from household food wastes: A review*”, Bioresource Technology, 257, 311-319, (2018)

45. Bournazou, M.N.C., Hooshier, K., Arellano-Garcia, H., Wozny, G., Lyberatos, G., «*Model based optimization of the intermittent aeration profile for SBRs under partial nitrification*», Water Research 47 (10) , pp. 3399-3410, (2013)

46. Carrere H., Antonopoulou G., Affes R., Passos F., Battimelli A., Lyberatos G., Ferrer I., “*Review of feedstock pretreatment strategies for improved anaerobic digestion: From lab-scale research to full-scale application*”, Bioresource Technology, 199: 386-397, (2016)

47. Chatzikonstantinou D., Tremouli A., Papadopoulou K., Kanellos G., Lampropoulos I., Lyberatos G. “*Bioelectricity production from fermentable household waste in a dual-chamber microbial fuel cell*», Waste Management and Research, 36,11, 1037-1042, (2018)

48. Chynoweth,D.P., Svoronos S.A., Lyberatos G., Harmon J.L., Pullammanappallil P., Owens J.M. and Peck M., “*Real-time Expert System Control of Anaerobic Digestion*”, Water Science and Technology, 30, pp21-29,(1994)

49. Cruz Bournazou, M.N., Hooshier, K., Arellano-Garcia, H., Lyberatos, G., Kravaris, C., Wozny, G., “*Optimization of a Sequencing Batch Reactor process for waste water treatment using a two step nitrification model*” Computer Aided Chemical Engineering, 29 , pp. 1291-1295, (2011)

50. Cruz Bournazou, M.N., Arellano-Garcia, H., Wozny, G., Lyberatos, G., Kravaris, C. «*ASM3 extended for two-step nitrification-denitrification: A model reduction for sequencing batch reactors*», Journal of Chemical Technology and Biotechnology, 87,7, 887-986, (2012)

51. Dailianis, S.; Charalampous, N.; Giokas, S.; Vlastos, D.; Efthimiou, I.; Dormousoglou, M.; Cocilovo, C.; Faggio, C.; Shehu, A.; Shehu, J.; Lyberatos, G.; Ntaikou, I., “Chemical and biological tracking in decentralized sanitation systems: The case of artificial constructed wetlands”, JOURNAL OF ENVIRONMENTAL MANAGEMENT, 300, art. No. 113799, (2021)

52. di Bitonto L., Antonopoulou G., Braguglia C., Campanale C., Gallipoli A., Lyberatos G., Ntaikou I., Pastore, C., «*Lewis-Bronsted acid catalysed ethanolysis of the*

organic fraction of municipal solid waste for efficient production of biofuels», Bioresource Technology, 266, 297-305, (2018)

53. Dimitrakos- Michalakos, G., Martinez-Nieva, J., Vayenas, D. and Lyberatos, G., "Removal of Iron from Potable Water Using a Trickling Filter", Water Research, 31, pp.991-996, (1997)

54. Dimitrellos, G.; Lyberatos, G.; Antonopoulou G., "Does Acid Addition Improve Liquid Hot Water Pretreatment of Lignocellulosic Biomass towards Biohydrogen and Biogas Production?", SUSTAINABILITY, 12, 21, (2020)

55. Dokianakis S. N., Fountoulakis M. S., Kornaros M. and G. Lyberatos "Biological Treatment of Sewage from Ships in a Sequencing Batch Reactor", Fresenius Environmental Bulletin, Volume: 16 Issue: 12A Pages: 1608-1615 Published: 2007

56. Dokianakis S.N. , Kornaros M. and G. Lyberatos, "Impact of five selected xenobiotics on isolated ammonium oxidizers and on nitrifying activated sludge", Environmental Toxicology, v. 21, 4, pp.310-316 , (2006)

57. Dokianakis S.N., Kornaros M. and G. Lyberatos, *Effect of wall growth on the kinetic modelling of nitrite oxidation in a CSTR*, Biotechnology and Bioengineering, 93 (4), pp. 718-726 (2006)

58. Dokianakis, S.N., Kornaros, M.E., G. Lyberatos, "On the effect of pharmaceuticals on bacterial nitrite oxidation", Water Science and Technology, Volume 50, Issue 5, Pages 341-346, (2004)

59. Dounavis, A.S., Ntaikou, I., Lyberatos, G., "Production of biohydrogen from crude glycerol in an upflow column bioreactor", Bioresource Technology, Volume 198, , Pages 701–708, (2015)

60. Dounavis A.S., Ntaikou I., Kamilari M., Lyberatos G "Production of Bio-Based Hydrogen Enriched Methane from Waste Glycerol in a Two Stage Continuous System" Waste and Biomass Valorization, 7 (4) 677-689 (2016)

61. Drillia P. , Stamatelatou K. and Lyberatos G. , "Fate and mobility of pharmaceuticals in solid matrices", Chemosphere, 60,8,pages 1034-1044, (2005)

62. Drillia P., Kornaros M., and Lyberatos G. "Wastewater Treatment from a Motor-Oil Reforming Company Using a Sequencing Batch Reactor (SBR)", Water Science & Technology Vol 47 No 10 pp 25–32 ,(2003)

63. Drillia P., S.N.Dokianakis, M.S.Fountoulakis, M.Kornaros, K.Stamatelatou and G. Lyberatos , "On the occasional biodegradation of pharmaceuticals in the activated sludge process: the example of the antibiotic sulphamethoxazole", Journal of Hazardous Materials, 122, 259-265,(2005)

64. Dueholm, MKD; (...) Lyberatos, G, "MiDAS 5: Global diversity of bacteria and archaea in anaerobic digesters", NATURE COMMUNICATIONS, 15, 1, art. no. 5361, (2024)

65. Fountoulakis M., Drillia P., Pakou C., Kampioti A, Stamatelatou K. and Lyberatos G., "Analysis of Nonylphenol and Nonylphenol Ethoxylates in sewage sludge by HPLC following Microwave-Assisted Extraction", Journal of Chromatography A, V.1089, Issues 1-2, pp.45-51,(2005)

66. Fountoulakis M.S., Dokianakis S.N., Kornaros M.E., Aggelis G.G. and Lyberatos G. "Removal of phenolics in olive mill wastewaters using the white rot fungus *Pleurotus Ostreatus*", Water Research, 36 (19), 4735-4744, (2002)

67. Fountoulakis MS, Stamatelatou K, Batstone DJ, Lyberatos G., *"Simulation of DEHP biodegradation and sorption during the anaerobic digestion of secondary sludge"*, Water Science and Technology, v. 54, 4, pp. 119-128, (2006)
68. Fountoulakis, M., Drilla, P., Stamatelatou, K. and G Lyberatos, *"Toxic effect of pharmaceuticals on methanogenesis"*, Water Science and Technology, v.50, 5, pp.335-340, (2004)
69. Fountoulakis, M.S., Stamatelatou, K., Lyberatos, G. *"The effect of pharmaceuticals on the kinetics of methanogenesis and acetogenesis"*, Bioresource Technology 99 (15), pp. 7083-7090, (2008)
70. Galanopoulos, C., Sazakli, E., Leotsinidis, M., Lyberatos, G., *"A pilot-scale study for modeling a free water surface constructed wetlands wastewater treatment system"*, 2013, Journal of Environmental Chemical Engineering, 1 (4) , pp. 642-651, (2013)
71. Galanopoulos C., Lyberatos G. *"Dynamic modelling and design of free water surface constructed wetland systems"* Global Nest Journal. 18 (2), 321-321 (2016)
72. Galanopoulos, C., Sazakli, E., Leotsinidis, M., Lyberatos, G., *"Dynamic model extension for the design of full-scale artificial free superficial flow wetland systems"*, Journal of Environmental Chemical Engineering, Volume 2, Issue 4, Pages 2129–2135, (2014)
73. Gavala HN, Skiadas IV, Ahring BK, and G.Lyberatos, *"Thermophilic anaerobic fermentation of olive pulp for hydrogen and methane production: modelling of the anaerobic digestion process"*, Water Science and Technology 53 (8), pp.271-279 (2006)
74. Gavala, H.N. and Lyberatos G., *"Influence of anaerobic culture acclimation on the degradation kinetics of various substrates"*, Biotechnology and Bioengineering, 74, 3, 181-195, (2001)
75. Gavala, H.N., Skiadas, I.V. and G.Lyberatos, *"On the Performance of a centralized Digestion Facility Receiving Seasonal Agroindustrial Wastewaters"*, Water Science and Technology, v.40, No 1, 339-346, (1999)
76. Gavala,H.N., Kopsinis,H., Skiadas,I.V., Stamatelatou K. and Lyberatos G., *"Treatment of Dairy Wastewater Using an Upflow Anaerobic Sludge Blanket Reactor"*, Journal of Agricultural Engineering Research, v.73, pp.59-63, (1999)
77. Gavala,H.N., Skiadas,I.V., Bozinis,N.A. and Lyberatos G., *"Anaerobic Codigestion of Agricultural Industries Wastewaters"*, Water Science and Technology, v.34, No11, pp.67-75, (1996)
78. Gavala, H.N., Skiadas,I.V, Ahring,B.K. and Lyberatos,G., *"Potential for biohydrogen and methane production from olive pulp"*, Water Science and Technology, 52, 1-2, pp.209-215, (2005)
79. Georgiopoulou, M., Lyberatos, G., *"Life cycle assessment of the use of alternative fuels in cement kilns: A case study"*, Journal of Environmental Management, 216, SI 224-234, (2018)
80. Georgiopoulou, M., Abeliotis, K., Kornaros, M., Lyberatos, G. *"Selection of the best available technology for industrial wastewater treatment based on environmental evaluation of alternative treatment technologies: The case of milk industry"*, Fresenius Environmental Bulletin 17 (1), pp. 111-121, (2008)
81. Gouzinis,A., Kosmidis,N., Vayenas,D. and Lyberatos G., *"Removal of Mn and Simultaneous Removal of NH₃, Fe, and Mn from Potable Water Using a Trickling Filter"*, Water Research, 32,8,pp.2442-2450 (1998)

82. Hamilton, J., Jain, R., Antoniou, P., Svoronos, S.A., Koopman, B. and Lyberatos, G., "Modelling and Pilot-Scale Experimental Verification for the Predenitrification Process", *Journal of Environmental Engineering*, v.118, No1, p.38,(1992).
83. Harmon J., Svoronos S.A., Lyberatos G. and Chynoweth D., "Adaptive Temperature Optimization of Continuous Anaerobic Digesters", *Biomass and Bioenergy*, v.5, No 3-4, pp.279-288,(1993)
84. Harmon, J., Lyberatos, G. and Svoronos, S.A., "A New Method for the Adaptive Determination of Optimum pH and Temperature," *Biotechnology and Bioengineering*, v. 33, pp. 1419-1424, (1989).
85. Harmon, J., Svoronos, S.A. and Lyberatos, G., "Adaptive Steady-State Optimization of Biomass Productivity in Continuous Fermentors," *Biotechnology and Bioengineering*, 30, pp. 335-344, (1987).
86. Hashem M., Al-Qahtani M.S., Alamri S.A., Moustafa Y.S., Lyberatos G., Ntaikou I., "Valorizing food wastes: assessment of novel yeast strains for enhanced production of single-cell protein from wasted date molasses", *Biomass Conversion and Biorefinery*, 12, 4491–4502, (2022)
87. Hashem, M; Alamri, SA; Asseri, TAY; Mostafa, YS; Lyberatos, G; Ntaikou, I., "On the Optimization of Fermentation Conditions for Enhanced Bioethanol Yields from Starchy Biowaste via Yeast Co-Cultures", *SUSTAINABILITY*, 13, art. No. 1890, (2021)
88. Hatzimanikatis V., Lyberatos G., Pavlou S. and Svoronos S.A. , "A Method for Pulsed Periodic Optimization of Chemical Reaction Systems", *Chemical Engineering Science*, v.48, No4, pp.789-797,(1993)
89. Jain, R., Lyberatos, G., Svoronos, S.A. and Koopman, B., "On Operational Strategies for the Predenitrification Process", *Journal of Environmental Engineering*, v.118, No1, p.56,(1992).
90. Jurado, G. Antonopoulou, G. Lyberatos I.V. Skiadas and H.N. Gavala. *Continuous anaerobic digestion of swine manure: ADM1-based modelling and effect of addition of swine manure fibers pretreated with aqueous ammonia soaking (AAS)*. *Applied Energy*, 172: 190-198
91. Kalfas, H., Skiadas, I. V, Gavala, H. N., Stamatelatou, K., Lyberatos, G., "Application of ADM1 for the simulation of anaerobic digestion of olive pulp under mesophilic and thermophilic conditions", *Water Science and Technology*, v. 54, 4, pps. 149-156, 2006
92. Kamperidis, T.; Tremouli, A.; Lyberatos, G., "Architecture Optimization of a Single-Chamber Air-Cathode MFC by Increasing the Number of Cathode Electrodes", *SUSTAINABILITY*, 15, art. No. 13107, (2023)
93. Kamperidis, T.; Pandis, P.K.; Argirusis, C.; Lyberatos, G.; Tremouli, A., "Effect of Food Waste Condensate Concentration on the Performance of Microbial Fuel Cells with Different Cathode Assemblies", *SUSTAINABILITY*, 14, 5 art. No. 2625, (2022)
94. Kamperidis, T.; Tremouli, A.; Peppas, A.; Lyberatos, G. "A 2D Modelling Approach for Predicting the Response of a Two-Chamber Microbial Fuel Cell to Substrate Concentration and Electrolyte Conductivity Changes", *ENERGIES*, 15, 4 art. No. 1412, (2022)
95. Kamperidis, T.; Tremouli, A.; Remoundaki, E.; Lyberatos, G. , "Silver Recovery from Wastewater, Simulating the Chemical Extract Originating from a PV Panel Using Microbial Fuel Cell Technology", *WASTE AND BIOMASS VALORIZATION*, 13, 4073–4083, (2022)

96. Kanellos, G.; Monokrousou, E.; Tremouli, A.; Lyberatos, G., «*Treatment of two-phase olive mill waste and degradation of phenolic compounds with simultaneous bio-electrochemical conversion of CO₂ to CH₄ using a microbial electrolysis cell*», *Sustainable Chemistry and Pharmacy*, 39, art. No 101589, (2024)
97. Kanellos, G.; Tremouli, A.; Arvanitakis, G.; Lyberatos, G., «*Boosting methane production and raw waste activated sludge treatment in a microbial electrolysis cell-anaerobic digestion (MEC-AD) system: The effect of organic loading rate*», *Bioelectrochemistry*, 155, art. No. 108555, (2024)
98. Kanellos, G.; Tremouli, A.; Kondylis, A.; Stamelou, A.; Lyberatos, G., «*Anaerobic Co-digestion of the Liquid Fraction of Food Waste with Waste Activated Sludge*», *Waste and Biomass Valorization*, 15, 3339–3350, (2024)
99. Kanellos, G.; Tremouli, A.; Tsakiridis, P.; Remoundaki, E.; Lyberatos, G., “*Silver Recovery from End-of-Life Photovoltaic Panels Based on Microbial Fuel Cell Technology*”, *Waste and Biomass Valorization*, 15, 75-86, (2024)
100. Kanellos, G.; Zonfa, T.; Polettini, A.; Pomi, R.; Rossi, A.; Tremouli, A.; Lyberatos, G., “*A dual-chamber Microbial Electrolysis Cell for electromethanogenesis from the effluent of cheese whey dark fermentation*”, *Biomass and Bioenergy*, 189, art. no. 107335, (2024)
101. Kanellos G., Tremouli A., Arvanitakis G., Lyberatos G., “*Computational Analysis of the Kinetic Processes of Microbial Electrolysis Cell-Assisted Anaerobic Digestion Using the ADM1*”, *Water* 15(22), 3939, (2023)
102. Kanellos, G.; Tremouli, A.; Arvanitakis, G.; Lyberatos, G., “*Boosting methane production and raw waste activated sludge treatment in a microbial electrolysis cell-anaerobic digestion (MEC-AD) system: The effect of organic loading rate*”, *Bioelectrochemistry*, 155, art. No. 108555, (2024)
103. Kanellos, G.; Tremouli, A.; Tsakiridis, P.; Remoundaki, E.; Lyberatos, G., “*Silver Recovery from End-of-Life Photovoltaic Panels Based on Microbial Fuel Cell Technology*”, *WASTE AND BIOMASS VALORIZATION*, In press, (2023)
104. Kanellos G., Kyriakopoulos D., Lyberatos G., Tremouli A., “*Electrochemical characterization of a microbial electrolysis cell during the bio-electrochemical conversion of CO₂ to CH₄*”, *Biochemical Engineering Journal*, 182, art. no. 108431, (2022)
105. Karafyllis I., Kravaris C., Syrou L. and Lyberatos G. “*A Vector Lyapunov Function Characterization of Input-to-State Stability with Application to Robust Global Stabilization of the Chemostat*”, *European Journal of Control*, 1:47-61 (2008)
106. Katsogiannis A.N., Kornaros M., and Lyberatos G. “*Enhanced Nitrogen Removal in SBRs Bypassing Nitrate Generation Accomplished by Multiple Aerobic/Anoxic Phase Pairs*” *Water Science & Technology* V.47, 11, pp. 53–59, (2003)
107. Katsogiannis A.N., Kornaros M., and Lyberatos G. “*Long-term effect of cycle time and aerobic/anoxic phase ratio on nitrogen removal in a Sequencing Batch Reactor*”, *Water Environment Research*, 74 (4), 324-337, (2002)
108. Katsogiannis, A.N., Kornaros, M.E. and Lyberatos G., “*Adaptive Optimization of a Nitrifying Sequencing Batch Reactor*”, *Water Research*, v.33, No17, 3569-3576, (1999)
109. Kiskira, K.; Lymperopoulou, T.; Lourentzatos, I.; Tsakanika, L.A.; Pavlopoulos, C.; Papadopoulou, K.; Ochsenuhn, K.M.; Tsopelas, F.; Chatzitheodoridis, E.; Lyberatos,

- G.; Ochsenkuhn-Petropoulou, M. "*Bioleaching of Scandium from Bauxite Residue using Fungus Aspergillus Niger*", WASTE AND BIOMASS VALORIZATION, In press, (2023)
110. Kiskira, K., Lymperopoulou, T., Tsakanika, L.A., Pavlopoulos, C., Papadopoulou, K., Ochsenkuhn, K.M., Lyberatos, G.; Ochsenkuhn-Petropoulou, M., "*Study of Microbial Cultures for the Bioleaching of Scandium from Alumina Industry By-Products*", METALS,11,6, art. No. 951, (2021)
111. Kora, E.; Patrino, V.; Antonopoulou, G.; Ntaikou, I.; Tekerlekopoulou, A.G.; Lyberatos, G., "*Dark fermentation of expired fruit juices for biohydrogen production followed by treatment and biotechnological exploitation of effluents towards bioplastics and microbial lipids*", Biochemical Engineering Journal, 195, art. No. 108901, (2023)
112. Kora, M.; Tsaousis, P.C.; Andrikopoulos, K.S.; Chasapis, C.T.; Voyiatzis, G.A.; Ntaikou, I.; Lyberatos, G., "*Production efficiency and properties of poly(3hydroxybutyrate-co-3hydroxyvalerate) generated via a robust bacterial consortium dominated by Zoogloea sp. using acidified discarded fruit juices as carbon source*", INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, 226, 1500-1514, (2023)
113. Kora, E.; Antonopoulou, G.; Zhang, Y.; Yan, Q.; Lyberatos, G.; Ntaikou, I., "*Investigating the efficiency of a two-stage anaerobic-aerobic process for the treatment of confectionery industry wastewaters with simultaneous production of biohydrogen and polyhydroxyalkanoates*", Environmental Research, 248, art. No. 118526, (2024)
114. Kornaros M, Dokianakis SN, Lyberatos G, "*Sensitivity analysis of a biofilm model describing mixed growth of nitrite oxidisers in a CSTR*", Water Science and Technology, v. 53, 12, pp, 313-320 , (2006)
115. Kornaros M, Lyberatos G, "*Biological treatment of wastewaters from a dye manufacturing company using a trickling filter*", Journal of Hazardous Materials, v.136, 1, pp. 95-102 (2006)
116. Kornaros M. and Lyberatos G., "*Kinetic modeling of Pseudomonas denitrificans growth and denitrification under aerobic, anoxic and transient operating conditions*", Water Research, v.32,1912-1922,(1998)
117. Kornaros, M. and Lyberatos, G., "*Kinetics of Aerobic Growth of a Denitrifying Bacterium, Pseudomonas Denitrificans, in the presence of Nitrates and/or Nitrites*", Water Research, v.31,No3,479-488, (1997)
118. Kornaros, M., Dokianakis, S.N., Lyberatos, G., "*Partial nitrification/denitrification can be attributed to the slow response of nitrite oxidizing bacteria to periodic anoxic disturbances*", Environmental Science and Technology,44, (19),pp.7245-7253, (2010)
119. Kornaros, M., Marazioti C. and G.Lyberatos, "*A pilot scale study of a sequencing batch reactor treating municipal wastewater operated via the UP-PND process*", Water Science & Technology, Vol 58 No 2 pp 435-438 (2008)
120. Kornaros, M., Zafiri, C. and Lyberatos, G., "*Kinetics of Denitrification by Pseudomonas Denitrificans under Growth Conditions Limited by Carbon and/or Nitrate or Nitrite*", Water Environment Research, No68,5,pp 934-945,(1996)
121. Kougiass, PG ; Tsapekos, P ; Treu, L ; Kostoula, M ; Campanaro, S ; Lyberatos, G; Angelidaki, I, A, "*Biological CO₂ fixation in up-flow reactors via exogenous H₂ addition*", JOURNAL OF BIOTECHNOLOGY, 319, 1-7, (2020)

122. Kookos, I.K., Pontikes, Y., Angelopoulos, G.N., Lyberatos, G., "Classical and alternative fuel mix optimization in cement production using mathematical programming", *Fuel*, 90 (3) , pp. 1277-1284, (2011)
123. Kourmentza C., Ntaikou I., Kornaros M., Lyberatos G., "Production of PHAs from mixed and pure cultures of *Pseudomonas sp.* with short chain fatty acids as carbon source under nitrogen limitation", *Desalination*, 248 (1-3), pp. 723-732 (2009).
124. Kourmentza, C., Ntaikou, I., Lyberatos, G., Kornaros, M., "Polyhydroxyalkanoates from *Pseudomonas sp.* using synthetic and olive mill wastewater under limiting conditions", *International Journal of Biological Macromolecules*, Volume 74, Pages 202–210, (2015)
125. Liakou S., Kornaros M. and Lyberatos G., «Pretreatment of Azo dyes Using Ozone», *Water Science and Technology*, v.36,No2-3, 155-163, (1997)
126. Liakou S., Zissi U., Kornaros M., and Lyberatos G. "Combined chemical and biological treatment of azo-dye containing wastewaters". *Chemical Engineering Communications*, 190 (5-8), 645-661, (2003)
127. Liakou,S., Pavlou,S., Lyberatos, G., «Ozonation of Azo-dyes», *Water Science and Technology*, v.35,No4,279-286, (1997)
128. Lyberatos G. and Kobotiatis L., "Inhibition of Aluminum 7075 Alloy Corrosion by the Concerted Action of Nitrate and Oxalate Salts", *Corrosion*, v.47,11, pp.820-824 (1991)
129. Lyberatos G., Klimantos P., Vassilakis I. and Kornaros M. "On the impact of land application of secondary sludge" *Water, Air and Soil Pollution: Focus*, 4 (4-5): 349-357, (2004)
130. Lyberatos, G. and I.V.Skiadas, "Modelling of Anaerobic Digestion – a Review", *Global Nest: the International Journal*, v.1, No2, 63-76, (1999)
131. Lyberatos, G. and Tsiligiannis, C.A., "Analysis of Feedback Induced Hopf Bifurcation via the Carleman Linearization," *Chemical Engineering Communications*, V. 57, (-6), p. 1, (1987).
132. Lyberatos, G., "The Effect of Delay on the Feedack Identification of Chemical Reaction Systems," *Chemical Engineering Science*, 40, pp. 2160-2162, (1985).
133. Lyberatos, G., and Abulesz, E-M., "Analysis of Periodic Injections in Cancer Chemotherapy," *International Journal of Systems Science*, v. 21 , pp. 1659-1671, (1990).
134. Lyberatos, G., Kuszta, B. and Bailey, J.E., "Bifurcation from the Potential Field Analog of Some Chemical Reaction Systems," *Chemical Engineering Science*, 40, pp. 1679-1687, (1985).
135. Lyberatos, G., Kuszta, B. and Bailey, J.E., "Discrimination and Identification of Dynamic Catalytic Reaction Models via Introduction of Feedback," *Chemical Engineering Science*, 39, pp. 739-750, (1984).
136. Lyberatos, G., Kuszta, B. and Bailey, J.E., "Normal Forms for Chemical Reaction Systems via the Affine Transformation," *Chemical Engineering Science*, 40, pp. 199-208, (1985).
137. Lyberatos, G., Kuszta, B. and Bailey, J.E., "Steady-State Multiplicity and Bifurcation Analysis via the Newton Polyhedron Approach," *Chemical Engineering Science*, 39, pp. 947-960, (1984).

138. Lyberatos, G., Kuszta, B., and Bailey J.E., "*Versal Matrix Families, Normal Forms and Higher Order Bifurcations in Dynamic Chemical Systems*", Chemical Engineering Science, 40, pp. 1177-1189, (1985).
139. Lyberatos, G., Tsiligiannis, C.A., "*A Linear Algebraic Method for Analyzing Hopf Bifurcation of Chemical Reaction Systems*," Chemical Engineering Science, 42, pp. 1242-1244, (1987).
140. Lyberatos, G. Gavala, H.N. and Stamatelatou A., «*An Integrated Approach for Management of Agricultural Industries Wastewaters*», Nonlinear Analysis, Theory Methods & Applications, v.30, No.4, pp.2341-2351, (1997)
141. Lyberatos, G., Sklyvaniotis, M., Angelakis, A.N., "*Sewage biosolids management in EU countries: Challenges and prospective*", Fresenius Environmental Bulletin, 20 (9 A), pp. 2489-2495, (2011)
142. Lytras, C.; Lyberatos, V.; Lytras, G.; Papadopoulou, K.; Vlysidis, A.; Lyberatos, G., "Development of a Model Composting Process for Food Waste in an Island Community and Use of Machine Learning Models to Predict its Performance ", WASTE AND BIOMASS VALORIZATION, In press, <https://doi.org/10.1007/s12649-024-02697-9>, (2024)
143. Lytras, G ; Lytras, C ; Mathioudakis, D ; Papadopoulou, K ; Lyberatos, G , "Food Waste Valorization Based on Anaerobic Digestion", WASTE AND BIOMASS VALORIZATION, 12, 1677-1697, (2021)
144. Lytras, G ; Koutroumanou, E ; Lyberatos, G , "Anaerobic co-digestion of condensate produced from drying of Household Food Waste and Waste Activated Sludge" "JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 8, 4 (2020)
145. Lytras, G., Lytras, C., Argyropoulou, D., Dimopoulos, N., Malavetas, G., Lyberatos, G., "*A novel two-phase bioreactor for microbial hexavalent chromium removal from wastewater*", Journal of Hazardous Materials, Volume 336, 2017, Pages 41-51, (2017)
146. Lytras, G., Lytras, C., Ntaikou, I., Lyberatos, G., «*Towards a novel two-phase liquid-liquid bioreactor for microbial Cr(VI) removal from wastewaters*», Volume 53, Issue 12, (2015)
147. Mantzavrakos E., Kornaros M., Lyberatos G., Kaspiris P., « *Impacts of a marine fish farm in Argolikos Gulf (Greece) on the water column and the sediment*», Desalination v.210, pp 110–124, (2007)
148. Marazioti C. E., Flessia G., Vlachos P., Koutrouli E., Ntaikou I., Antonopoulou G., Pakou C., Kalfas H., Kornaros M. and G. Lyberatos, "*On the environmental state of the mesologgi lagoon in Greece*", Fresenius Environmental Bulletin, 19 (6), p.p. 1161-1164, (2010)
149. Marazioti C., Kornaros M., and Lyberatos G. "*Kinetic modeling of a mixed culture of Pseudomonas denitrificans and Bacillus subtilis under aerobic and anoxic operation conditions*", Water Research, 37, 1239-1251, (2003)
150. Mathioudakis, D ; Karageorgis, P ; Papadopoulou, K ; Astrup, TF ; Lyberatos, G "*Environmental and Economic Assessment of Alternative Food Waste Management Scenarios*", SUSTAINABILITY, 14, 15, art. No. 9634, (2022)
151. Mathioudakis, D; Karageorgis, P; Papadopoulou, K; Lyberatos, G "*LCA and LCC of dried and shredded food waste as an alternative fuel for the cement industry*", WASTE MANAGEMENT AND RESEARCH, In press, (2021)

152. Mathioudakis D., Michalopoulos I., Kalogeropoulos K., Papadopoulou K. and Lyberatos G., *“Anaerobic digestion of dried/shredded food waste in a periodic anaerobic baffled reactor”*, Water Science & Technology, Water Science and Technology, 84, 2, 420-430, (2021)
153. Mathioudakis, D. Papadopoulou, K., Lytras, GM, Pavlopoulos, C., Niakas, S., Filippou, K., Melanitou, E.,Lekkas, D.F., Lyberatos, G., *«A Detailed Characterization of Household Municipal Solid Waste»*, "WASTE AND BIOMASS VALORIZATION, 12, 2945-2957, (2021)
154. Michalakos GD, Nieva JM, Vayenas DV, Lyberatos G, *“Removal of iron from potable water using a trickling filter”*, Water research, v.31,5 pp. 991-996, (1997)
155. Michalopoulos I., Mathioudakis D., Premetis I., Michalakidi S., Papadopoulou K., Lyberatos G., *“Anaerobic Co-digestion in a Pilot-Scale Periodic Anaerobic Baffled Reactor (PABR) and Composting of Animal By-Products and Whey”*, Waste and Biomass Valorization,v.10, 6,1469-1479 (2019)
156. Michalopoulos, I., Lytras, G.M., Mathioudakis, D., Lytras,C., Goumenos,A, Zacharopoulos,I., Papadopoulou, K., Lyberatos, G., *“Hydrogen and Methane Production from Food Residue Biomass Product (FORBI)”*, Waste and Biomass Valorization, 11, 5, 1647-1655, (2020)
157. Michalopoulos I., Kamperidis T., Seintis G., Pashos G., Lytras C., Papadopoulou K., Boudouvis A.G., Lyberatos G., *«Experimental and numerical assessment of the hydraulic behavior of a pilot-scale Periodic Anaerobic Baffled Reactor (PABR)»*, Computers and Chemical Engineering, 111, 278-287, (2018)
158. Michalopoulos, I., Chatzikonstantinou, D., Mathioudakis, D., Vaiopoulos, I., Tremouli, A., Georgiopoulou, M., Papadopoulou, K., Lyberatos, G., *“Valorization of the Liquid Fraction of a Mixture of Livestock Waste and Cheese Whey for Biogas Production Through High-rate Anaerobic Co-digestion and for Electricity Production in a Microbial Fuel Cell (MFC)”*, Waste and Biomass Valorization, 8(5), pp. 1759-1769, (2017)
159. Michalopoulos, I., Mathioudakis, D., Premetis, I., Michalakidi, S., Papadopoulou, K. Papadopoulou, K., Lyberatos, G., *“Anaerobic Co-digestion in a Pilot-Scale Periodic Anaerobic Baffled Reactor (PABR) and Composting of Animal By-Products and Whey”*, Waste and Biomass Valorization, pp. 1-11, (2017)
160. Ntaikou, I.; Alexandropoulou, M.; Kamilari, M.; Alamri, S.A.; Moustafa, Y.S.; Hashem, M.; Antonopoulou, G.; Lyberatos, G., *“Saccharification of starchy food waste through thermochemical and enzymatic pretreatment, towards enhanced bioethanol production via newly isolated non-conventional yeast strains”*, ENERGY, 281, art. no. 128259, (2023)
161. Ntaikou, I; Antonopoulou, G; Lyberatos, G., *“Sustainable Second-Generation Bioethanol Production from Enzymatically Hydrolyzed Domestic Food Waste Using Pichia anomala as Biocatalyst”*, SUSTAINABILITY, 13, 1, art. No. 259, (2021)
162. Ntaikou, I ; Siankevich, S ; Lyberatos, G *“Effect of thermo-chemical pretreatment on the saccharification and enzymatic digestibility of olive mill stones and their bioconversion towards alcohols”*, ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 28, 24570–24579, (2021)
163. Ntaikou, I ; Antonopoulou, G ; Vayenas, D ; Lyberatos, G *“Assessment of electrocoagulation as a pretreatment method of olive mill wastewater towards alternative processes for biofuels production”* "RENEWABLE ENERGY, 154, 1252-

1262, (2020)

164. Ntaikou I., Menis N., Alexandropoulou M., Antonopoulou G., Lyberatos G., "Valorization of kitchen biowaste for ethanol production via simultaneous saccharification and fermentation using co-cultures of the yeasts *Saccharomyces cerevisiae* and *Pichia stipites*", *Bioresource Technology*, 263, 75-83, (2018)

165. Ntaikou I., Valencia Peroni C., Kourmentza C., Ilieva V.I., Morelli A., Chiellini E., Lyberatos G., «*Microbial bio-based plastics from olive-mill wastewater: Generation and properties of polyhydroxyalkanoates from mixed cultures in a two-stage pilot scale system*», *Journal of Biotechnology*, 188, 138-147, (2014)

166. Ntaikou I., Koumelis I., Kamilari M., Iatridi Z., Tsitsilianis C. and Lyberatos G., "Effect of nitrogen limitation on polyhydroxyalkanoates production efficiency, properties and microbial dynamics using a soil derived mixed continuous culture". *International Journal of Biobased Plastics*, v.1,1, 31-47, (2019).

167. Ntaikou I., Koumelis I., Tsitsilianis C., Parthenios J., Lyberatos G., "Comparison of yields and properties of microbial polyhydroxyalkanoates generated from waste glycerol based substrates", *International Journal of Biological Macromolecules*, 112, 273-283, (2018)

168. Ntaikou I., Antonopoulou G. and G. Lyberatos, «*Biohydrogen Production from Biomass and Wastes via Dark Fermentation: A Review*», *Waste and Biomass Valorization*, 1:21–39, (2010)

169. Ntaikou I., H.N.Gavala, Kornaros M. and G.Lyberatos, "Hydrogen production from sugars and sweet sorghum biomass using *Ruminococcus Albus*", *International Journal of Hydrogen Energy* 33 (4), pp. 1153-1163, (2008)

170. Ntaikou I., Kourmentza C., Koutrouli E., Stamatelatou K., Zampraka A., Kornaros M., Lyberatos G., "Exploitation of olive oil mill wastewater for combined biohydrogen and biopolymers production", *Bioresource Technology*, 100 (15), pp. 3724-3730 ,(2009)

171. Ntaikou, I., Gavala, H.N., Lyberatos, G., "Application of a modified Anaerobic Digestion Model 1 version for fermentative hydrogen production from sweet sorghum extract by *Ruminococcus albus*", *International Journal of Hydrogen Energy*, 35 (8), pp.3423-3432, (2010)

172. Ntaikou, I., Gavala, H.N., Lyberatos, G., "Modeling of fermentative hydrogen production from the bacterium *Ruminococcus albus*: Definition of metabolism and kinetics during growth on glucose" , *International Journal of Hydrogen Energy* 34 (9), pp. 3697-3709, (2009)

173. Ntaikou, I., Valencia Peroni, C., Kourmentza, C., Ilieva V.I., Morelli A., Chiellini, E., Lyberatos, G., "Microbial bio-based plastics from olive-mill wastewater: Generation and properties of polyhydroxyalkanoates from mixed cultures in a two-stage pilot scale system", *Journal of Biotechnology*, Volume 188, Pages 138–147, (2014)

174. O'Neil, D.G. and Lyberatos, G., "Dynamic Model Development for a Continuous Culture of *Saccharomyces Cerevisiae*," *Biotechnology and Bioengineering*, v. 36, pp. 437-445, (1990).

175. O'Neil, D.G. and Lyberatos, G., "Feedback Identification of Continuous Microbial Growth Systems," *Biotechnology and Bioengineering*, 28, pp. 1323-1333, (1986).

176. Pakou C, Stamatelatou K., Kornaros M., Lyberatos G., *On the complete aerobic microbial mineralization of linear alkylbenzene sulfonate*, *Desalination*, 215, pp. 198–208, (2007)

177. Pakou C., Kornaros M., Stamatelatou K. and Lyberatos G., *“On the fate of LAS, NPEOs and DEHP in municipal Sewage Sludge during composting”*, *Bioresource Technology*, 100, pp. 1634–1642, (2009)
178. Pakou, C., Fountoulakis, M., Drillia, P., Kampioti, A. Stamatelatou, K., Lyberatos, G. (2006). *Occurrence and Fate of Polycyclic Aromatic Hydrocarbons in Sewage Treatment Plants using Microwave-Assisted Extraction followed by Liquid Chromatography coupled with Fluorescence Detector*. *Fresenius Environmental Bulletin*, V.16, 2, pp.127-132, (2007)
179. Pandis, P.K.; Michopoulos, E.; Arvanitis, C.; Argirusis, C.; Stathopoulos, V.N.; Lyberatos, G.; Tremouli, A, *“Bioenergy Production from Tannery Waste via a Single-Chamber Microbial Fuel Cell with Fly Ash Cathodic Electrodes”*, *KEY ENGINEERING MATERIALS*, 962, 105-112, (2023)
180. Pandis, P.K.; Kamperidis, T.; Bairamis, K.; Vlachos, I.; Argirusis, C.; Stathopoulos, V.N.; Lyberatos, G.; Tremouli, A. ,*“Comparative Study of Different Production Methods of Activated Carbon Cathodic Electrodes in Single Chamber MFC Treating Municipal Landfill Leachate”*, *Appl. Sci.* 2022, 12, 2991,(2022)
181. Pavlopoulos, C.; Christoula, A.; Patsidis, A.C.; Semitekolos, D.; Papadopoulou, K.; Psarras, G.C.; Zoumpoulakis, L.; Lyberatos, G., *“Epoxy-Silicon Composite Materials from End-of-Life Photovoltaic Panels”*, *WASTE AND BIOMASS VALORIZATION*, 14, 3391–3400, (2023)
182. Pavlopoulos, C.; Kelesi, M.; Michopoulos, D.; Papadopoulou, K.; Lymperopoulou, T.; Skaropoulou, A.; Tsvivilis, S.; Lyberatos, G., *“Management of end-of-life photovoltaic panels based on stabilization using Portland cement”*,*SUSTAINABLE CHEMISTRY AND PHARMACY*,27,art. no. 100687, (2022)
183. Pavlopoulos C.; Papadopoulou, K.; Theocharis M.; Tsakiridis P.; Kousi P; Hatzikioseyan A; Remoundaki E; Lyberatos G., *“Modification of Recovered Silicon from End-of-Life Photovoltaic Panels for Catalytic Reduction of Cr(VI)”*, *Waste*, 1, 1, 81-94, (2022)
184. Pavlou, S., Kevrekidis I.G. and Lyberatos,G., *"On the Coexistence of Competing Microbial Species in a Chemostat Under Cycling,"* *Biotechnology and Bioengineering*, v. 35 , pp. 224-232, (1990).
185. Papanikola K., Nisotakis N., Sofra M., Lyberatos G., *“Characterization, classification and stabilization of industrial wastes for hazard property HP3: Flammable self-heating; assessment and evaluation of 50 industrial wastes”*, *Journal of Hazardous materials*, 403, (2020)
186. Papanikola K., Papadopoulou K., Tsiliyannis C., Fotinopoulou I., Katsiampoulas A., Chalarakis E., Georgiopoulou M., Rontogianni V., Michalopoulos I., Mathioudakis D., Lytras G.M., Lyberatos G., *“Food residue biomass product as an alternative fuel for the cement industry”*, *Environmental Science and Pollution Research*, V.26, Issue 35, 35555–35564, (2019)
187. Pind, P.F., Angelidaki, I., Ahring, B.K., Stamatelatou, K., Lyberatos, G., *“Monitoring and control of anaerobic reactors”* *Advances in biochemical engineering/biotechnology*, Volume 82, , Pages 135-182, (2003)
188. Pullamanapallip,P., Harmon, J., Chynoweth, D.P., Lyberatos, G. and Svoronos, S.A., *"Avoiding Digester Imbalance Through Real-Time Expert System Control of the Dilution Rate,"**Applied Biochemistry and Biotechnology*,v.28/29, pp33-42. (1991)

189. Pullammanappallil, P. C., Chynoweth D. P., Lyberatos G. and Svoronos S. A.. "Stable performance of anaerobic digestion in the presence of a high concentration of propionic acid". *Bioresource Technology*. 78(2), pp. 165-169, (2001).
190. Pullammanappallil, P., S. A. Svoronos, D. P. Chynoweth and G. Lyberatos., "Expert system for control of anaerobic digesters", *Biotechnology and Bioengineering*, 58(1), pp. 13-22, (1998).
191. Rodin, B., Lyberatos, G. and Svoronos, S.A., "A Simple Model to Describe Transient Differences Between Cell Number and Biomass Growth Rates of *Escherichia Coli*," *Biotechnology and Bioengineering*, 37, 129, (1991).
192. Rouvalis, A. , Iliopoulou-Georgudaki, J., G. Lyberatos, "Application of two microbiotests for acute toxicity evaluation of olive mill wastewaters", *Fresenius Environmental Bulletin* 13 (5) , 458-464, (2004)
193. Schmidt J.S, Christensen N., Angelidaki I. Batstone D. J., Trably E., Lyberatos G., Stamatelatou K., Kornaros M., Metzger L., Ameal N., Watson J. , García K., Ayuso S. and Patureau D., "Safe Recycling of Sewage Sludge on Agricultural Land Biowaste", *Process Safety and Environmental Protection*, Process Safety and Environmental Protection, 84(B4): 253–257(2006)
194. Senkevich, S., Ntaikou, I., Lyberatos, G. «Bioethanol production from thermochemically pre-treated olive mill solid residues using the yeast *Pachysolen tannophilus*», *Global Nest Journal*, 14, 2, 118-124, (2012)
195. Shehu, J., Marazioti, C.E., Shehu, A., Lyberatos, G., "Monitoring of pollution levels in selected surface waters of Albania", *Fresenius Environmental Bulletin*, 19 (12 B) , pp. 3100-3106, (2010)
196. Skiadas, I.V. and G. Lyberatos, «The Periodic Anaerobic Baffled Reactor», *Water Science and Technology*, v.38, No8-9, pp.401-408, (1998).
197. Skiadas, I.V., Gavala H.N. and G. Lyberatos, "Modelling of the Periodic Anaerobic Baffled Reactor (PABR) Based on the Retaining Factor Concept", *Water Research*, 34, No15, pp.3725-3736, (2000)
198. Smith, C.B., Kuszta, B. , Lyberatos, G. and Bailey, J.E., "Period Doubling and Complex Dynamics in an Isothermal Chemical Reaction System," *Chemical Engineering Science*, 38, pp. 425-430, (1983).
199. Stamatelatou K, K. Dravillas and G. Lyberatos, "Methane production from sweet sorghum residues via a two-stage process", *Water Science & Technology* Vol 48 No 4 pp 235–238, (2003)
200. Stamatelatou K. , Kopsahelis A., Blika P.S., Paraskeva C.A. and G. Lyberatos, «Anaerobic digestion of olive mill wastewater in a periodic anaerobic baffled reactor (PABR) followed by further effluent purification via membrane separation technologies», *Chemical Technology and Biotechnology*, 84 (6), pp. 909-917, (2009)
201. Stamatelatou K., Antonopoulou G., Tremouli A. And G. Lyberatos, "Production of gaseous biofuels and electricity from cheese whey", *Industrial & Engineering Chemistry Research*, 50, 639–644, (2011)
202. Stamatelatou K., Frouda C., Fountoulakis M.S., Drillia P., Kornaros M. and Lyberatos G. "Pharmaceuticals and health care products in wastewater effluents: the example of carbamazepine" *Water Supply*, V. 3,4, pp. 131–137 (2003).
203. Stamatelatou K., Vavilin V. and Lyberatos G., "Performance of a glucose fed periodic anaerobic baffled reactor under increasing organic loading conditions: 1. Experimental results", *Bioresource Technology*, 88, pp.131-136, (2003)

204. Stamatelatou K., Lokshina L., Vavilin V. and Lyberatos G., "Performance of a glucose fed periodic anaerobic baffled reactor under increasing organic loading conditions: 2. Model prediction", *Bioresource Technology*, 88, pp.137-142, (2003)
205. Stamatelatou K., Skiadas I. and Lyberatos G., "On the behaviour of the periodic anaerobic baffled reactor (PABR) during the transition from carbohydrate to protein-based Feedings", *Bioresource Technology*, 92, 3, pp. 321-326 (2004)
206. Stamatelatou, K. and G Lyberatos, "Simulation of a periodic anaerobic baffled reactor (PABR): steady state and dynamic response", *Water Science and Technology*, Volume 45, Issue 10, Pages 81-86, (2002)
207. Stamatelatou, Syrou L. K., Kravaris C. and Lyberatos G., "An invariant manifold approach for CSTR model reduction in the presence of multi-step biochemical reaction schemes. Application to anaerobic digestion", *Chemical Engineering Journal*, 150 (2-3), pp. 462-475 , (2009)
208. Stamatelatou, K., Lyberatos, G., Tsiligiannis, C., Pavlou, S., Pullammannappallil, P. and Svoronos S.A., «Optimal and Suboptimal Control of Anaerobic Digesters», *Environmental Modelling and Assessment*, 2,4, 353-363(1997)
209. Stephens, M.L. and Lyberatos, G., "Effect of Cycling on the Stability of Plasmid Bearing Microorganisms in Continuous Culture," *Biotechnology and Bioengineering*, 31, pp. 464-469, (1988).
210. Stephens, M.L. and Lyberatos, G., "Effect of Cycling on Final Mixed Culture Fate," *Biotechnology and Bioengineering*, 29, pp. 672-678, (1987).
211. Stephens, M.L., Christensen, C. and Lyberatos, G., "Plasmid Stabilization of an E. Coli Culture Through Cycling," *Biotechnology Progress*,8,1-4,(1992)
212. Svoronos, S.A. and Lyberatos, G., "Eigenvalue Based Discretization of Sampled Data Systems," *AIChE Journal*, v38, 9, 1485-1488,(1992).
213. Tao, Q.; Huang, H.; Yang, M.; Zoo, Y.; Yan, Q.; Liang, B.; Ntaikou, I.; Antonopoulou, G.; Lyberatos, G.; Zhang, Y., "Comparison of batch, fed-batch and continuous operation modes for scalable polyhydroxyalkanoate (PHA) production and carbon sequestration from phenol", *Journal of Water Process Engineering*, 60, art. No. 105147, (2024)
214. Theocharis, M ; Pavlopoulos, C ; Kousi, P ; Hatzikioseyan, A ; Zarkadas, I ; Tsakiridis, PE ; Remoundaki, E ; Zoumboulakis, L ; Lyberatos, G , "An Integrated Thermal and Hydrometallurgical Process for the Recovery of Silicon and Silver from End-of-Life Crystalline Si Photovoltaic Panels", *WASTE AND BIOMASS VALORIZATION*, 13, 9 (SI), 4027-4041, (2022)
215. Tremouli, A.; Pandis, P.K.; Kamperidis, T.; Argirusis, C.; Stathopoulos, V.N.; Lyberatos, G. "Performance Comparison of Different Cathode Strategies on Air-Cathode Microbial Fuel Cells: Coal Fly Ash as a Cathode Catalyst", *WATER (SWITZERLAND)*, 15, art. No. 862, (2023)
216. Tremouli, A; Chatzikonstantinou, D; Kanellos, G; Lytras, G; Lyberatos, G, "MICROBIAL FUEL CELL FOR Cr(VI) REDUCTION AND SIMULTANEOUS BIO-ELECTRICITY PRODUCTION USING AN ABIOTIC CATHODE", *FRESENIUS ENVIRONMENTAL BULLETIN*, 31,2, 1719-1727, (2022)
217. Tremouli, A., Kamperidis, T., Pandis, P.K., Argirusis, C., Lyberatos, G., "Exploitation of Digestate from Thermophilic and Mesophilic Anaerobic Digesters Fed with Fermentable Food Waste Using the MFC Technology", *Waste and Biomass Valorisation Journal*, 12 (SI), 10, 5361-5370, (2021)

218. Tremouli, A., Kamperidis, T., Lyberatos, G., «*Comparative Study of Different Operation Modes of Microbial Fuel Cells Treating Food Residue Biomass*», *Molecules*, 26,13 art. No. 3987, (2021)
219. Tremouli A., Karydogiannis I., Pandis P.K., Papadopoulou K., Argirusis C., Stathopoulos V.N., Lyberatos G., “*Bioelectricity production from fermentable household waste extract using a single chamber microbial fuel cell*”, *Energy Procedia*, v.161 , 2-9, (2019).
220. Tremouli A., Pandis P.K., Karydogiannis I., Stathopoulos V.N., Argirusis C., Lyberatos G., “*Operation and electro(chemical) characterization of a microbial fuel cell stack fed with fermentable household waste extract*”, *Global Nest journal*, v.21, 2, 253-257, (2019).
221. Tremouli, A., Antonopoulou, G., Bebelis, S., Lyberatos, G., «*Operation and characterization of a microbial fuel cell fed with pretreated cheese whey at different organic loads*», *Bioresource Technology* 131 , pp. 380-389, (2013)
222. Tremouli A., Vlassis T., Antonopoulou G. and Lyberatos G. "Anaerobic degradation of glycerol for electricity generation: The effect of substrate concentration". *Waste and Biomass Valorisation Journal*. 7:1339–1347, (2016)
223. Tremouli, A., Martinos, M., Lyberatos, G., “*The Effects of Salinity, pH and Temperature on the Performance of a Microbial Fuel Cell*”, *Waste and Biomass Valorization*, 8(6), pp. 2037-2043, (2017)
224. Tremouli A., Martinos M., Bebelis S., Lyberatos G. "Performance assessment of a four-air cathode single-chamber microbial fuel cell under conditions of synthetic and municipal wastewater treatments". *Journal of Applied Electrochemistry*. 46 (4) 515-525 (2016)
225. Tremouli, A., Intzes, A., Intzes, P., Bebelis, S., Lyberatos, G., “*Effect of periodic complete anolyte replacement on the long term performance of a four air cathodes single chamber microbial fuel cell*”, *Journal of Applied Electrochemistry*, Volume 45, Issue 7, pp 755-763, (2015)
226. Tsakarestos, I. and Lyberatos G. “*The strategic planning of the waste management system on a regional case*”, *Fresenius Environmental Bulletin*, 9, 5-6, 265-268, (2000)
227. Tsapekos, P., Kougias, P.G., Vasileiou, S.A., Lyberatos, G., Angelidaki, I., “*Effect of micro-aeration and inoculum type on the biodegradation of lignocellulosic substrate*”, *Bioresource Technology*, 225, pp. 246-253, (2017)
228. Tsapekos, P., Kougias, P.G., Vasileiou, S.A., Treu, L., Campanaro, S. Lyberatos, G., Angelidaki, I., “*Bioaugmentation with hydrolytic microbes to improve the anaerobic biodegradability of lignocellulosic agricultural residues*”, *Bioresource Technology*, Volume 234, 2017, Pages 350-359, (2017)
229. G.Tseropoulos, Y. Dimakopoulos, J.Tsamopoulos, G.Lyberatos, “*On the flow characteristics of the conical Minoan pipes used in water supply systems, via computational fluid dynamics simulations*”, *Journal of Archaeological Science*, 40 (4) , pp. 2057-2068, (2013)
230. Tsiaka, P., Tsarpali, V., Ntaikou, I., Kostopoulou, M.N., Lyberatos, G., Dailianis, S., «*Carbamazepine-mediated pro-oxidant effects on the unicellular marine algal species *Dunaliella tertiolecta* and the hemocytes of mussel *Mytilus galloprovincialis**», 2013, *Ecotoxicology* 22 (8) , pp. 1208-1220, (2013)

231. Tsiligiannis, C.A. and Lyberatos, G., "A *Linear Algebraic Approach to Steady-State Bifurcation of Chemical Reaction Systems*," *Chemical Engineering Science*, 42, pp. 535-541, (1987).
232. Tsiligiannis, C.A. and Lyberatos, G., "Normal Forms, Resonance and Bifurcation Analysis via the Carleman Linearization," *Journal of Mathematical Analysis and Applications*, 139, pp. 123-138, (1989).
233. Tsiligiannis, C.A. and Lyberatos, G., "Steady-State Bifurcations and Exact Multiplicity Conditions via Carleman Linearization," *Journal of Mathematical Analysis and Applications*, 126, pp. 143-160, (1987).
234. Tzathas K., Chrysagi E., Lyberatos G., Vlyssides A., Vlysidis A., "Pre-treatment of Olive Mill Wastes for the Extraction of Residual Oil and High Added Value Compounds", *Waste and Biomass Valorization*, 11, 8,4025-4034 (2020)
235. Tziotzios G., Teliou M. , Kaltsouni V., Lyberatos G., Vayenas D.V., "Biological phenol removal using suspended growth and packed bed reactors", *Biochemical Engineering Journal* v.26, 65–71, (2005)
236. Tziotzios G., Ekonomou C., Lyberatos G. and Vayenas D. V. "Effect of the Specific Surface Area and Operating Mode on Biological Phenol Removal Using Packed Bed Reactors", *Desalination* 210 (1-3), pp. 110-124
237. Tziotzios, G., Lyberatos, G., Pavlou, S., Vayenas, D.V. , «Modelling of biological phenol removal in draw-fill reactors using suspended and attached growth olive pulp bacteria», *International Biodeterioration and Biodegradation* 61 (2), pp. 142-150
238. Tzitzzi, M., Vayenas, D. and Lyberatos, G., "Pre-treatment of Textile Industry Wastewaters with Ozone", *Water Science and Technology*, 29, pp151-160, (1994)
239. Valta K., Sotiropoulos A., Malamis D., Kosanovic T., Antonopoulou G., Alexandropoulou M., Jonuzay S., Lyberatos G., Loizidou M., "Assessment of the effect of drying temperature and composition on the biochemical methane potential of in-house dried household food waste", *Waste Management and Research*, v.37, 5, 461-468, (2019).
240. Varlikli C., Bekiari V., Kus M., Boduroglu N., Oner I., Lianos P., Lyberatos G., Icli S. "Adsorption of dyes on Sahara Desert Sand", *Journal of Hazardous Materials* 170 (1), pp. 27-34, (2009)
241. Vavilin, VA, Rytov, S.V., Lokshina LY, Rintala JA and Lyberatos G., "Simplified Hydrolysis models for the optimal design of two-stage anaerobic digestion", *Water Research*, 35, 17, 4247-4251, (2001)
242. Vayenas, D. and Lyberatos, G., "A Novel Model for Nitrifying Trickling Filters", *Water Research*, 28, pp1275-1284, (1994)
243. Vayenas, D. V and Lyberatos, G., "On the Design of Nitrifying Trickling Filters for Potable Water Treatment", *Water Research*, 29, pp1079-1084, (1995)
244. Vayenas, D., Pavlou, S. and Lyberatos, G., "Dynamic Modelling of Nitrifying Trickling Filters", *Environmental Modelling and Assessment*, 2, 3, pp221-226, (1997)
245. Vayenas, D., Pavlou, S. Lyberatos, G., «Development of a Dynamic Model Describing Nitritification and Nitrification in Trickling Filters», *Water Research*, 31, pp. 1135-1147, (1997)
246. Venetsaneas N., Antonopoulou G., Stamatelatou K., Kornaros M. and Lyberatos G., "Using cheese whey for hydrogen and methane generation in a two-stage continuous process with alternative pH controlling approaches", *Bioresource Technology*, 100 (15), pp. 3713-3717, (2009)

247. Vlachos P. , Kampioti A., Kornaros M. and Lyberatos G. "Matrix Effect during the application of a rapid method using HS-SPME followed by GC/ECD for the analysis of 2,4,6-TCA in wine and cork soaks», *Food Chemistry*, 105, 681–690 (2007)
248. Vlachos P., Kampioti A., Kornaros M., and Lyberatos G. , "Development and evaluation of alternative processes for sterilization and deodorization of cork barks and natural cork stoppers", *European Food Research and Technology*, V.225, 5-6, pp. 653-663, (2007)
249. Vlachos, P., Stathatos, E., Lyberatos, G., Lianos, P. "Gas-phase photocatalytic degradation of 2,4,6-trichloroanisole in the presence of a nanocrystalline Titania film. Applications to the treatment of cork stoppers", *Catalysis Communications* 9 (10), pp. 1987-1990, (2008)
250. Vlassis, T., Antonopoulou, G., Stamatelatou, K., Lyberatos, G. «Anaerobic treatment of glycerol for methane and hydrogen production», *Global Nest Journal* , 14, 2, 149-156, (2012)
251. Vlassis, T., Stamatelatou, K., Antonopoulou, G., Lyberatos, G., «Methane production via anaerobic digestion of glycerol: A comparison of conventional (CSTR) and high-rate (PABR) digesters», *Journal of Chemical Technology and Biotechnology* 88 (11) , pp. 2000-2006, (2013)
252. Wang, H.; Wang, C.; Guo, F.; Yu, J.; Zhang, Y.; Harder, M.; Ntaikou, I.; Antonopoulou, G.; Lyberatos, G.; Yan, Q., "Enhancement of biosynthesis of polyhydroxyalkanoates (PHA) from Taihu blue algae by adding by-product acetic acid", *JOURNAL OF BIOTECHNOLOGY*, 363, 32-39, (2023)
253. Wilkinson, JL ; Boxall, ABA ; Kolpin, DW ; Leung, KMY ; Lai, RWS ; Galban-Malagon, C (...) Lyberatos, G..., "Pharmaceutical pollution of the world's rivers", *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*, 119 8, art. No. e2113947119, (2022)
254. Wu, H., Wang, H., Zhang, Y., Antonopoulou, G., Ntaikou, I., Lyberatos, G., Yan, Q., "In situ biogas upgrading via cathodic biohydrogen using mitigated ammonia nitrogen during the anaerobic digestion of Taihu blue algae in an integrated bioelectrochemical system (BES)", *Bioresource Technology*, 341, art. no. 125902, (2021)
255. Yang, M.; Zou, Y.; Wang, X.; Liu, X.; Wan, C.; Harder, M.; Yan, Q.; Nan, J.; Ntaikou, I.; Antonopoulou, G.; Lyberatos, G.; Zhang, Y., "Synthesis of intracellular polyhydroxyalkanoates (PHA) from mixed phenolic substrates in an acclimated consortium and the mechanisms of toxicity", *Journal of Environmental Chemical Engineering*, 10, 3, art. No. 107944, (2022)
256. Yannopoulos, S.I., Lyberatos, G., Theodossiou, N., Wang Li, Valipour M., Tamburrino, A, Angelakis, A.N., "Evolution of Water Lifting Devices (Pumps) over the Centuries Worldwide", *Water*, 7, 5031-5060; doi:10.3390/w7095031, (2015)
257. Zafiri C. Marazioti C. E. , Kornaros M., , Angelopoulos K. and G. Lyberatos, "The deterioration of the environmental state of the shallow Koutavos lagoon in Kefalonia, Greece", *Fresenius Environmental Bulletin*, 18 (6), pp. 935-947 ,(2009)
258. Zafiri C., Kornaros M. and Lyberatos G., "Kinetic modelling of biological phosphorus removal with a pure culture of *Acinetobacter* sp. under aerobic, anaerobic and transient operating conditions", *Water Research*, v.33, No12, pp2769-2788, (1999)
259. Zhang, Y.; Zou, Y.; Tao, Q.; Yang, M.; Harder, M.; Wang, H.; Liang, B.; Ntaikou, I.; Antonopoulou, G.; Lyberatos G., "Scalable recovery of polyhydroxyalkanoate (PHA)

- from a mixed microbial culture via a novel acidification-NaClO digestion process”, *BIORESOURCE TECHNOLOGY REPORTS*, 27, art. no. 101925, (2024)
260. Zissi,U., Kornaros,M. and Lyberatos, G., *“Kinetics of growth and aniline degradation of Stenotrophomonas maltophilia”*, *Water Environment Research*, v.71,No1, pp43-49,(1999)
261. Zissi,U., Kornaros,M. and Lyberatos, G.,*“Kinetics of p-Aminoazobenzene Degradation by Bacillus subtilis under Denitrifying Conditions”*, *Water Environment Research*, v.71,No3, pp323-331,(1999)
262. Zissi,U., Lyberatos, G. and Pavlou S., *“Biodegradation of p-Aminoazobenzene by Bacillus subtilis under aerobic conditions”*, *Journal of Industrial Microbiology and Biotechnology*,19,pp.49-55 (1997)
263. Zissi,U. and Lyberatos, G., *“Azo-dye Biodegradation under anoxic conditions”*, *Water Science and Technology*, 34, No5-6,pp. 495-500, (1996)
264. Zissi,U. and Lyberatos, G., *“Partial degradation of p-aminoazobenzene by a defined mixed culture of Bacillus subtilis and Stenotrophomonas maltophilia”*, *Biotechnology and Bioengineering*, 72,No1, pp.49-54, (2001)
265. Zonfa, T.; Kamperidis, T.; Falzarano, M.; Lyberatos, G.; Poletti, A.; Pomi, R.; Rossi, A.; Tremouli, A. *“Two-Stage Process for Energy Valorization of Cheese Whey through Bio-Electrochemical Hydrogen Production Coupled with Microbial Fuel Cell”*, *FERMENTATION*, 9, art. No 306, (2023)
266. Zou, Y.; Yang, M.; Tao, Q.; Zhu, K.; Liu, X.; Wan, C.; Harder, M.K.; Yan, Q.; Liang, B.; Ntaikou, I.; Antonopoulou, A.; Lyberatos, G.; Zhang, Y. *“Recovery of polyhydroxyalkanoates (PHAs) polymers from a mixed microbial culture through combined ultrasonic disruption and alkaline digestion”*, *JOURNAL OF ENVIRONMENTAL MANAGEMENT*, 326, Part B, art. No. 116786, (2023)

B1. Κεφάλαια σε βιβλία

1. Pind P.F., I. Angelidaki, B.K. Ahring, K. Stamatelatou, G. Lyberatos (2003). *“Monitoring and control of anaerobic reactors”*. In: Biomethanation II, B.K. Ahring, The Technical University of Denmark, Lyngby, Denmark, Springer eds. *Advances in biochemical engineering/biotechnology* 82 pp. 135-182
2. Lyberatos G. and Pullammannappallil P., *“Anaerobic Digestion in Suspended Growth Bioreactors”*, in *Environmental Biotechnology*, Editors L.K. Wang, J -H Tay, V. Ivanov and Y-T. Hung., *Handbook of Environmental Engineering* v.10 The Humana Press, Inc, pp395-438, (2010)
3. Lyberatos G., Gavala H., Kornaros M., Stamatelatou K. and Angelopoulos K. , *“Biological production of hydrogen from waste and biomass”*, in *“Biotechnology in organic waste management: from disposal to resource recovery”* published in *“Integrated Environmental Technology”* series of IWA Publishing, Ed.Piet Lens
4. Lyberatos G., Gavala H.N. and Skiadas I.V. , *“Modelling of biomass fermentation – control of product formation”*, published in *“Integrated Environmental Technology”* series of IWA Publishing, Ed.Piet Lens

5. D.V.Vagenas and G.Lyberatos, "Cartridge Filters for Iron Removal" in Water Encyclopedia: Water Quality and Resource Development, J.H.Lehr and J.Keeley eds, 1:247-248 and 488-489, Wiley, (2005)
6. D.V.Vagenas and G.Lyberatos, "Nitrification of Potable Water Using Tricking Filters" in Water Encyclopedia: Domestic, Municipal and Industrial Water Supply and Waste Disposal, J.H.Lehr and J.Keeley eds, 1:247-248 and 488-489, Wiley, (2005)
7. G. Antonopoulou, I. Ntaikou, K. Stamatelatou, G. Lyberatos, "Biological and fermentative production of hydrogen", in Handbook of Biofuels Production, Woodhead Publishing Ltd, Eds.R. Luque, J. Campelo and J. Clark Pages 305-346, (2011)
8. Stamatelatou K., Antonopoulou G., Lyberatos G. "Production of biogas via anaerobic digestion", Handbook of biofuels production, Woodhead Publishing Ltd, Ed.R. Luque, J. Campelo and J. Clark ISBN 13: 978 1 84569 679 5(2010)
9. Stamatelatou K., Pakou C., Lyberatos G., "Occurrence, Toxicity, and Biodegradation of Selected Emerging Priority Pollutants in Municipal Sewage Sludge, in Comprehensive Biotechnology (Second Edition), ELSEVIER, V. 6, pp. 473-484, (2011)
10. Stamatelatou K., Blika P., Ntaikou I. and Lyberatos G, "Integrated Management Methods for the Treatment and/or Valorization of Olive Mill Wastes", in "Novel Technologies in Food Science, Integrating Food Science and Engineering Knowledge Into the Food Chain 7", McElhatton and P.J.A. Sobral (eds.), Springer NL, pp.65-118, (2011)
11. Giovana Tommaso , Rogers Ribeiro , Carlos Augusto Fernandes de Oliveira ,Katerina Stamatelatou , Georgia Antonopoulou , Gerasimos Lyberatos ,Cecilia Hodúr , and József Csanádi, Clean Strategies for the Management of Residues in Dairy Industries, A. McElhatton and P.J.A. Sobral (eds.), Novel Technologies in Food Science, Integrating Food Science and Engineering Knowledge Into the Food Chain 7, Springer NL, pp.381-411, (2011)
12. E. Uckun Kiran, K. Stamatelatou, G. Antonopoulou and G. Lyberatos. 2016 Production of biogas via anaerobic digestion - In: Handbook of biofuels production. Processes and Technologies (Second edition). R. Luque, CSK Lin, K. Wilson and J. Clark (Eds) Woodhead Publishing Series in Energy N 98. ISBN 978-0-08100455-5 (print), 978-0-08100456-2 (online), pages: 259-291
13. Carrère, H., Antonopoulou, G., Druilhe, C., Latrille, E., Lyberatos, G., Jimenez, J., Ntaikou, I., Papadopoulou, K., Trably, E., Trémier, A. Methods to assess biological transformation of biomass, Handbook on Characterization of Biomass, Biowaste and Related By-products, Springer International Publishing, Nzihou, A. (ed.) 978-03035020-8, 641-730 (2020)

B2. Βιβλία

1. Γεράσιμος Λυμπεράτος και Σταύρος Παύλου, «Εισαγωγή στη Βιοχημική Μηχανική» Εκδόσεις Τζιόλα, (2010) 978-960-418290-9
2. Γεράσιμος Λυμπεράτος και Δημήτριος Βαγενάς, «Διαχείριση Υγρών αποβλήτων», Εκδόσεις Τζιόλα, (2011) , 9789604183463
3. Γεράσιμος Λυμπεράτος, «Διαχείριση Υγρών αποβλήτων - Αστικά λύματα», Εκδόσεις ΕΑΠ, (2003)

4. Γεράσιμος Λυμπεράτος, Κων/νος Γιαπιντζάκης, Κώστας Κομνίτσας, «Διαχείριση Υγρών αποβλήτων – Βιομηχανικά υγρά Απόβλητα», Εκδόσεις ΕΑΠ, (2003)

Γ. Συμμετοχές σε συνέδρια

Γ1.Διεθνή

1. Abulesz, E.M., Lyberatos, G., "Periodic Operation of Continuous Cultures," 196th ACS National Meeting, Los Angeles, CA, Sept. (1988).
2. Alexandropoulou M, Antonopoulou G, Zhang Y, Ntaikou I, Lyberatos G "Recovery of bioenergy and high added value bioproducts from confectionary industrial wastewaters", Closed cycles and the Circular Society 2023: The power of ecological engineering". 1-5 October 2023, Chania, Greece, (2023)
3. Alexandropoulou M, Papadopoulou K, Antonopoulou G, Lyberatos G. "Using hydrothermal pretreatment to enhance gaseous biofuels from forestry residues", 10th International Conference on Sustainable Solid Waste Management, Chania, Greece, 21 -24 June (2023)
4. Alexandropoulou M.; Kosinas A.; Zampeta Ch.; Ntaikou I.; Antonopoulou G.; Lyberatos G.; Vayenas D., "Optimization of electrocoagulation process for biofuels generation using cheeses whey", Protection and Restoration of the Environment XVI, Kalamata, Greece July 5-8, (2022)
5. Alexandropoulou, M.; Ben Atitallah, I.; Ntaikou, I.; Antonopoulou, G.; Mechichi ,T.; Lyberatos, G. "The effect of alkaline/hydrogen peroxide pretreatment on hydrogen and methane production from biomasses of different origin: the case of willow sawdust and date palm fibers", 9th International Conference on Sustainable Solid Waste Management, Corfu. Greece; June 15-18 (2022); (2022)
6. Alexandropoulou M., Lyberatos G. and G. Antonopolou, "Comparison of the continuous fermentative hydrogen production efficiency from cheese whey in suspended and attached-biomass systems", 17th International Conference on Environmental Science and Technology, 1-4 September 2021, Athens, Greece, (2021)
7. Alexandropoulou M., Lyberatos G. and G. Antonopolou, "Fermentative hydrogen production from cheese whey: comparison of a continuous stirred tank reactor with an up-flow column bed bioreactor", 7th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2021) and SECOTOX Conference, 20 -24 July 2021, Thessaloniki, Greece, (2021)
8. Alexandropoulou M., Mentzou F., Antonopoulou G., Hashem A., Ntaikou I. and G. Lyberatos, "Saccharification and ethanol production from starchy food wastes via enzymatic and chemical hydrolysis", 8th International Conference on Sustainable Solid Waste Management, Thessaloniki, Greece, 23 - 26 June (2021)
9. Alexandropoulou M., Lenakaki E., Lyberatos G. and G. Antonopolou, "Continuous fermentative hydrogen production from cheese whey in an attached growth biomass system: the influence of operational parameters", 8th International Conference on Engineering for Waste and Biomass Valorisation, May 31-June 4, (2021)

10. Alexandropoulou M, Papadopoulou K, Antonopoulou G., Lyberatos G., *“Hydrothermal Pretreatment Optimization for Enhanced Anaerobic Digestion of Willow Sawdust”*, 16th International Conference on Environmental Science and Technology, CEST2019, 4-7 September 2019, Rhodes, Greece, (2019)
11. Alexandropoulou M., Antonopoulou G., Lyberatos G., *“Hydrogen and methane production from food-industry wastes”*, 13th World Congress on Anaerobic Digestion, Santiago de Compostela ,Spain, June 25-28, (2013)
12. Alexandropoulou,M., Antonopoulou G., Lyberatos G., *“Biofuels production from food wastes”*, 7th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries (EMCC7), Corfu, 27 April – 1May (2012)
13. Alexandropoulou M., Antonopoulou G. and Lyberatos G., *«Fermentative hydrogen production from food industry wastes in a CSTR-type reactor: The influence of Hydraulic Retention Time»*, International Conference on Industrial Waste & Wastewater Treatment & Valorisation, Athens, 21-23 May (2015)
14. Alexandropoulou M., Antonopoulou G., Ntaikou I. and Lyberatos G., *«Using Leiotrametes menziesii and Abortiporus biennis for biological pretreatment of willow sawdust for enhancing biogas production»*, 3rd International Conference on Sustainable Solid Waste Management, Tinos Island, Greece, 2-4 July (2015)
15. Alexandropoulou M., Antonopoulou G. and G. Lyberatos, *“ADM1-based modeling of a continuous anaerobic digester for biogas production from food industry waste(water)s”*, IWA Regional Symposium on Water, Wastewater and Environment: Tradition and Culture. 22-24 March 2014, Patras, Greece, (2014)
16. Alexandropoulou M., Antonopoulou G. and Lyberatos G., *“Fermentative hydrogen production from food-industry wastes”*, 13th International Conference on Environmental Science and Technology, Athens, Greece, September 5-7,(2013)
17. Alexandropoulou M., Lytras C., Antonopoulou G. and G. Lyberatos, *“Modeling of anaerobic digestion of starchy food wastes in different bioreactor types”*, 5th International Conference on Engineering for Waste and Biomass Valorisation, Rio De Janeiro, Brazil, August 25-19, (2014) I.V.
18. Alexandropoulou M., Menis N., Antonopoulou G., Ntaikou I., Lyberatos G., *“From waste to fuel: bioconversion of domestic food wastes to energy carriers”*, 5th International Conference on Sustainable Solid Waste Management, Athens, Greece, (2017)
19. Aliferis A. , Antonopoulou G. , Ntaikou I. , Alexandropoulou M. , Vayenas D and Lyberatos G., *"Assessment of electrocoagulation as a pretreatment method of olive mill wastewater for biofuels production in a biorefinery concept"*, INTERNATIONAL SYMPOSIUM ON CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS, ISCW2019, 29th-31st August 2019, Patras, Greece,(2019)
20. Aliferis A., G. Antonopoulou, M. Alexandropoulou, I. Ntaikou, D. Vayenas and G. Lyberatos, *“Electrocoagulation: An efficient pretreatment method for biofuels production from olive mill wastewater”*, 6th International Conference on Industrial and Hazardous Waste Management. 3-5 September 2018, Chania Crete, Greece, (2018)
21. Andreozzi R., Battilotti M., Campanella L., Caprio V., Ferrari B., Garric J., Lyberatos G., Marotta R., Paxeus N., Pinto G., and A.Pollio, *“Ecotoxicological Assessments and Removal Technologies for Pharmaceuticals in Wastewaters SETAC Europe 12th Annual Meeting, Vienna, Austria, May 12-16, (2002)*

22. Andreozzi,R., Lebrato,J., Levec,J., Lyberatos, G., Livingston, A.G. and Metcalfe, I.S., *"Integrated Chemical and Biological Treatment of Industrial wastewaters"*, Proc. The European Workshop on Environmental Technologies, pp.77-81, Copenhagen (1996)
23. Antonopoulou G, Alexandropoulou M, Ntaikou I, Lyberatos G. *"Biohydrogen production from household food waste through dark fermentation: the possibility of water minimization during dilution"*, Closed cycles and the Circular Society 2023: The power of ecological engineering". 1-5 October 2023, Chania, Greece, (2023)
24. Antonopoulou,, G.; Kampioti, A.; Lyberatos, G., *"On the design of anaerobic bioprocesses for sustainable exploitation strategies from poplar sawdust"*, 9th International Conference on Sustainable Solid Waste Management, Corfu. Greece; June 15-18 (2022); (2022)
25. Antonopoulou, G.; Ntaikou, I.; Bampos, G.; Dailianis, S.; Bebelis, S.; Lyberatos, G. *"Valorization of olive mill wastewater (OMW) in a microbial fuel cell (MFC): assessment of toxicity and bio-electrochemical characteristics"*, 9th International Conference on Sustainable Solid Waste Management, Corfu. Greece; June 15-18 (2022); (2022)
26. Antonopoulou G., Apostolopoulos I., Bampos G., Bebelis S., and G. Lyberatos, *"Hydrogen production in a microbial electrolysis cell: the influence of operational parameters"*, 17th International Conference on Environmental Science and Technology, 1-4 September 2021, Athens, Greece, (2021)
27. Antonopoulou G., Apostolopoulos I., Bampos G., Bebelis S., and G. Lyberatos, *"Establishing a Microbial electrolysis cell for hydrogen production from cheese whey"*, 7th International conference on industrial and hazardous waste management, 27 – 30 July, 2021, Crete, Greece, (2021)
28. Antonopoulou G., A. Soto Beobide, M. Alexandropoulou, G. Bampos, S. Dailianis, G. Voyiatzis, S. Bebelis, G. Lyberatos, *"APPLICATION OF MICROBIAL ELECTROCHEMICAL TECHNOLOGIES TOWARDS ADVANCED BIOFUELS PRODUCTION - THE "METAFUELS" PROJECT"*, International Conference "Protection and Restoration of the Environment XV", Greece, 2020. 2020
29. Antonopoulou G., I. Ntaikou, M. Alexandropoulou, S. Bebelis, G. Lyberatos, *"Using cheese manufacturing wastes in a single chamber Microbial Fuel Cell"*, 7th International Conference on Sustainable Solid Waste Management, Heraklion, Crete, June 26-29 (2019)
30. Antonopoulou G., I. Ntaikou, M. Alexandropoulou, D. Vayenas, G. Lyberatos, *"Assessment of electrocoagulation as a pretreatment method of olive mill wastewater for biofuels production in a biorefinery concept"*, 7th International Conference on Sustainable Solid Waste Management, Heraklion, Crete, June 26-29, (2019)
31. Antonopoulou G., I. Ntaikou, M. Alexandropoulou, A. Tremouli, C. Pastore,. L. di Bitonto, S. Bebelis, G. Lyberatos, *"Using household food waste as a source of energy in a single-chamber microbial fuel cell"*, 6th International Conference on Sustainable Solid Waste Management, 13-16 June 2018, Naxos, Greece. , (2018)
32. Antonopoulou G., Dimitrellos G., Vayenas D. and G. Lyberatos, *"Different physicochemical pretreatment methods on lignocellulosic biomass: the effect on*

- biochemical methane potential*”, 14th International Conference on the Environmental Science and Technology (CEST2015), Rhodes, Greece, 3-5 September (2015)
33. Antonopoulou G., Gavala H.N., Skiadas I.V. and Lyberatos G., « *Does aqueous ammonia soaking pretreatment influence the fermentative processes of bioethanol and biohydrogen production from different lignocellulosic feedstocks?*», 3rd International Conference on Sustainable Solid Waste Management, Tinos Island, Greece, 2-4 July (2015)
 34. Antonopoulou G., Dimitrellos G., Vayenas D., Lyberatos G., “The effect of acid pretreatment on bio-ethanol and bio-hydrogen production from sunflower straws”, 2nd International Conference on Sustainable Solid Waste Management, Athens, 12th–14th June (2014)
 35. Antonopoulou G., Jonuzaj S., Gavala H.N., Skiadas I.V. and G. Lyberatos, “*The effect of aqueous ammonia soaking pretreatment on methane generation using different lignocellulosic feedstocks*” 5th International Conference on Engineering for Waste and Biomass Valorisation, Rio De Janeiro, Brazil, August 25-18 (2014)
 36. Antonopoulou G., Dimitrellos G., Vayenas D. and G. Lyberatos, “*The effect of physicochemical pretreatment on the anaerobic digestion of poplar biomass*”, 12th International Conference on Protection and Restoration of the Environment. Skiathos Island, Greece, 29th June-4 July (2014)
 37. Antonopoulou G., Dimitrellos G., Vayenas D. and G. Lyberatos, “*The effect of acid pretreatment on bio-ethanol and bio-hydrogen production from sunflower straw*”, 2nd International Conference on Sustainable Solid Waste Management. 12-14 June 2014, Athens Greece.(2014)
 38. Antonopoulou G., Dimitrellos G., Vayenas D. and G. Lyberatos, “*Bio-ethanol production from grass using the yeast P. Stipitis: The effect of acid pretreatment*”, 10th International Conference on Renewable Resources & Biorefineries (RRB10), Valladolid, Spain, 4- 6th June 2014, (2014)
 39. Antonopoulou G, Stamatelatu K, Bebelis S, Lyberatos G: “*Using cheese whey as a source of energy in a microbial fuel cell*”, In CEST2009: A-40-47, Chania, (Sep 2009)
 40. Antonopoulou, H. N. Gavala, I. V. Skiadas, G. Lyberatos, “*Sweet sorghum biomass fermentation: modeling of hydrogen and methane production based on ADM1*”, European Congress of Chemical Engineering (ECCE-6), Copenhagen, 16-20 September (2007)
 41. Antonopoulou G. Lyberatos G, “*Chemical pretreatment of sweet sorghum biomass for hydrogen production*”, 12th International Conference on the Environmental Science and Technology (CEST2011), Rhodes, Sep. (2011)
 42. Antonopoulou G., H. N. Gavala, I. V. Skiadas and G. Lyberatos , “*Effect of substrate concentration in fermentative hydrogen production from sweet sorghum extract*,” 3rd International Conference on Engineering for Waste and Biomass Valorisation”, May 17-19, Beijing, China, (2010)
 43. Antonopoulou G., H. N. Gavala, I. V. Skiadas and G. Lyberatos, “*Biofuels generation from sweet sorghum biomass*”,10th International Conference on the Environmental Science and Technology (CEST2007), 5 –, Cos island, Greece, 7 September (2007)
 44. Antonopoulou G., K. Stamatelatu and G. Lyberatos, “*Methane potential from oil-rich crop residues*”, International Conference on Waste and Biomass Valorization in Developing Countries, Ouagadougou, Burkina Faso July 9-11,(2009)

45. Antonopoulou G., M. Alexandropoulou and G. Lyberatos, "*The effect of thermal, chemical and enzymatic pretreatment on saccharification and methane generation from sunflower straws*" "VENICE 2010:Third International Symposium on Energy from Biomass and Waste, 8-11 November 2010, Cini Foundation, Venice, Italy, (2010)
46. Antonopoulou, G., Lyberatos, G., "*Effect of pretreatment of sweet sorghum biomass on methane generation*", 4th International Conference on Engineering for Waste Valorization, Porto, Portugal, September 10-13, (2012)
47. Antonopoulou G., Ntaikou I., Lyberatos G. "*Using sweet sorghum biomass as a source of bioenergy*". 1st National MikroBioKosmos (MBK) conference, Athens, Greece, (2008)
48. Antonopoulou G., Stamatelatou K. And G.Lyberatos, "*Exploitation of sunflower and rapeseed crops residues for methane production*", International Conference: Renewable Resources and biorefineries (RRB5), De Bijloke, Belgium, June 10-12, 2009
49. Antonopoulou G., Stamatelatou K., Bebelis S., Lyberatos G. "*Electricity generation from cheese whey using a microbial fuel cell*" 18th International Congress of Chemical and Process Engineering, 8th European Symposium of Electrochemical Engineering, Prague, Czech Republic, (2008)
50. Antonopoulou G., Stamatelatou K., Lyberatos G. "*Biofuel generation from cheese whey in a two- stage anaerobic process*". AIChE Annual meeting, Pennsylvania, CA, (2008)
51. Antonopoulou G., Stamatelatou K., Lyberatos G. "*Exploitation of rapeseed and Sunflower residues for methane generation: The effect of pretreatment*",2nd International conference on Industrial Biotechnology (IBIC 2010), Padua, Italy (2010)
52. Antonopoulou G., Stamatelatou K., Lyberatos G., "*Exploitation of rapeseed and sunflower residues for methane generation through anaerobic digestion: the effect of pretreatment*", IBIC 2010 ,2nd International Conference on industrial Biotechnology, - Padua, Italy11- 14 April, (2010)
53. Antonopoulou G., Dimitrellos G., Vayenas D. and G. Lyberatos, "*Physicochemical pretreatment of grass and its effect on fermentative hydrogen production*", 5th International Symposium on Energy from Biomass and Waste. Island of San Servolo, Venice, Italy, 17-20 November (2014)
54. Antonopoulou G., Ntaikou I., Tremouli A., Bebelis S., Lyberatos G. "*Single-chamber microbial fuel cell and anaerobic digestion for the energetic valorization of household food wastes*", 10th World Congress of Chemical Engineering, Barcelona, Spain (2017)
55. Aulenta F., C. Cruz Viggli, C. Pastore, D. Montecchio, B. Erable, A. Bergel, M. Zeppilli, M. Villano, M. Majone, G. Lyberatos, I. Ntaikou, K. Papadopoulou, G. Antonopoulou, A. Tremouli, S. Da Silva, H. Chouchane, A.S. Masmoudi, A. Cherif, "*Sustainable Wastewater Treatment Coupled to Energy Recovery with Microbial Electrochemical Technologies: The WE-MET Project*", 6th International Conference on Sustainable Solid Waste Management, 13-16 June 2018, Naxos, Greece, (2018)
56. Avrabou A., Pastrouma Z., Tseremegli O., Angelopoulos K., Kornaros M., and Lyberatos G. "*Study of the influence of the azo-dye Orange II on physiological parameters of the plant Coleous sp. L. in the the prospect of development of an*

- industrial wastewater treatment system based on plants*". 6th International Conference on Environmental Science and technology, Samos, (1999)
57. Barka-Papadimitriou A., Chalevelaki K., Anastasiou F., Vourthis P., Papadopoulou K., Lyberatos G., "Food Upcycling of Spent Brewery Grain", International Conference of Circular Economy: The pathway towards a Sustainable Development, Chania Crete, September (2024)
58. Barka-Papadimitriou A., Christouli V., Athanasatou I., Souti F., Melanitou E., Desiotou E., Papadopoulou K., Lyberatos G., Municipal Food Waste Prevention at Halandri", RETASTE: Rethink Food Resources, Losses, and Waste 4th International Conference, Archanes, Greece, September 25-27, (2024)
59. Barka, A.; Dimogianni, A.; Vitoraki, M.; Markouli, K.; Desiotou, E.; Papadopoulou, K.; Lyberatos, G. "Waste Prevention: The Case of The Municipality of Halandri", Rethink Food Resources, Losses, and Waste Third International Conference (RETASTE); Athens, Greece; September 27-29 (2023).
60. Batstone D.J., Trably E. , Christensen N. , Patureau D, Stamatelatou K. ,Pakou C., Kornaros M., Lyberatos G., Schmidt J.E. "Assessing Microbial Potential for Degradation of Complex Organic Compounds", 15th Annual meeting, SETAC Europe, Lille, France, (2005)
61. Ben Atitallah I., Antonopoulou G., Ntaikou I., Mechichi T., Lyberatos G., "A novel pretreatment approach for enhanced second generation bioethanol production from willow sawdust", 7th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2021) and SECOTOX Conference, 20 -24 July 2021, Thessaloniki, Greece, (2021)
62. Ben Atitallah I., Ntaikou I., Antonopoulou G., Bredai C., Lyberatos G. and T. Mechichi, "Bioethanol production from date palm fibers: Effect of alkaline hydrogen peroxide pretreatment and fermentation conditions".8th International Conference on Sustainable Solid Waste Management, Thessaloniki, Greece, 23 - 26 June (2021)
63. Ben Atitallah I., I. Ntaikou, G. Antonopoulou, M. Alexandropoulou, G. Lyberatos, M. Narsi, T. Mechich, "Exploitation of Tunisian date palm sap as a promising carbon source for bioethanol production by a newly isolated yeast strain", 7th International Conference on Engineering for Waste and Biomass Valorisation, 2-5 July, 2018, Prague, Czech Republic, (2018)
64. Ben Atitallah I., G. Antonopoulou, I. Ntaikou, M. Alexandropoulou, M. Narsi, T. Mechichi, G. Lyberatos., "Potato peels waste as feedstock for bioethanol production: A comparison of chemical, thermal and enzymatic pretreatment", 7th International Conference on Engineering for Waste and Biomass Valorisation, 2-5 July, 2018, Prague, Czech Republic, (2018)
65. Blika P. S., Stamatelatou K., Gavala H.N., Skiadas I.V. and Lyberatos G., "Aerobic post treatment of anaerobically digested sludge for the removal of xenobiotics". Facing Sludge Diversities: Challenges, Risks and Opportunities , Pine Beach Hotel, Belek - Antalya, Turkey, 28-30 March 2007
66. Blika P., Stamatelatou K., Kornaros M., Lyberatos G. ,"Pretreatment of olive mill wastewater in a fungal trickling filter", WATMED 3, , Tripoli Lebanon, November 1-3, (2006)
67. Blika P.S., Stamatelatou K, Gavala H.N., Skiadas I.V. and Lyberatos G., "Aerobic post treatment of anaerobically digested sludge", IWA Facing Sludge Diversities: Challenges, risks and Opportunities, Antalya, Turkey, March (2007)

68. Blika P.S., Stamatelatou K., Kornaros M., Lyberatos G. "Anaerobic digestion of olive mill wastewater", Protection and Restoration of the Environment IX, Kefalonia (Ionian Sea), Greece, (2008)
69. Bonias A. Dounavis A. Ntaikou I., Lyberatos G. «Effect of feeding mode and immobilization matrix on the distribution of metabolites during bacterial acidification of crude glycerol», 12th International Conference on Protection and Restoration of the Environment, Skiathos island, Greece, June 29 to July 3, (2014)
70. Carrere H., Passos F., Antonopoulou G., Rouches E., Affes R., Battimelli A., Ferrer I., Steyer J. P. and G. Lyberatos, "Enhancement of anaerobic digestion performance: which pretreatment for which waste?", 5th International Conference on Engineering for Waste and Biomass Valorisation, Rio De Janeiro, Brazil, August 25-20, (2014)
71. Charoupa M. , Antonopoulou G. , Ntaikou I., Alexandropoulou M., Bebelis S. and Lyberatos G., "Using cheese whey in a single chamber Microbial Fuel Cell", INTERNATIONAL SYMPOSIUM ON CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS, ISCW2019, 29th-31st August 2019, Patras, Greece", (2019).
72. Charoupa M., I. Ntaikou, M. Alexandropoulou, A. Tremouli, G. Antonopoulou, S. Bebelis, G. Lyberatos, "Cheese whey valorization in a single chamber Microbial Fuel Cell", 6th International Conference on Industrial and Hazardous Waste Management. 3-5 September 2018, Chania Crete, Greece, (2018)
73. Chatzikonstantinou D., Kanellos G., Lampropoulos I., Tremouli A., Papadopoulou K., Lyberatos G. Bioelectricity Production from Fermentable Household Waste in a Dual-Chamber Microbial Fuel Cell 15th International Conference on Environmental Science and Technology, Rhodes, Greece, (2017)
74. Christensen N., Mosbæk H., Garcia H., Lyberatos G., Stamatelatou K., Drillia P., Fountoulakis M., Pakou C., Kampioti A., Patureau D., Caria G., Schmidt J. E. "Comparative Analysis of Trace Amounts of Toxic Organic Compounds in Sewage Sludge", Proc. 15th Annual meeting SETAC Europe, Lille, France,(2005)
75. Christoula A., Semitekolos D., Pavlopoulos C., Papadopoulou K. Psarras G.C., Zoumpoulakis L., Lyberatos G., "Epoxy-Silica composite materials from end-of-life photovoltaic panels", World Congress on 04-07 October 2021 (ISWA2021), (2021)
76. Chynoweth D.P., Svoronos S.A., Lyberatos G., Harmon J., Pullammanappallil P., Owens J. and M.J.Peck, "Real-Time Expert System Control of Anaerobic Digestion", presented at the IAWQ:AD-94 ,South Africa, Jan.(1994).
77. Cruz Bournazou Mariano Nicolas, Harvey Arellano-Garcia, Günter Wozny, Gerasimos Lyberatos and Costas Kravaris, "A Model Reduction Approach to Activated Sludge Systems",2010 AIChE Annual Meeting: Salt Lake City, USA, Nov.2010
78. Dailianis S.,Charalambous N.,Foiniris S.,Komodromou A., Cocilovo C.,Dormousoglou M.,Ntaikou I. and Lyberatos G, "Assessment of constructed wetlands operational efficiency, using chemical and biological testing", INTERNATIONAL SYMPOSIUM ON CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS ISCW2019, 29th-31st August 2019, Patras, Greece, (2019)
79. Dazea D. Antonopoulou G. , Alexandropoulou M., Ben Atitallah I., Mechichi T. , Ntaikou I. and Lyberatos G., "Second generation of bioethanol production from household food wastes via a newly isolated yeast strain of *Wickerhamomyces*

anomalus", INTERNATIONAL SYMPOSIUM ON CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS, ISCW2019, 29th-31st August 2019, Patras, Greece,(2019)

80. Dazea D., Antonopoulou G., Alexandropoulou M. Ben Atitallah I, Mechichi T. Ntaikou I. Lyberatos G., "Second Generation Bioethanol Production from Household Food Wastes via a Newly Isolated Yeast Strain of *Wickerhamomyces Anomalus*",16th International Conference on Environmental Science and Technology, CEST2019, 4-7 September 2019, Rhodes, Greece ",(2019)

81. Dimitrellos G., Koumelis I., Ntaikou I., Parthenios J. and G. Lyberatos, "Effect of aging on physical and mechanical properties of biologically produced polyhydroxyalkanoates", WasteEng 2014: 5th International Conference on Engineering for Waste and Biomass Valorisation, Rio de Janeiro, Brazil, from August 25 – 28, (2014).

82. Dokianakis N., Kornaros M.E., Stamatelatos, K. and Lyberatos G. "On the effect of pharmaceuticals on bacterial nitrite oxidation" Ecohazard 2003 Aachen, Germany 14-16, (2003).

83. Dokianakis S., Kornaros M., Lyberatos G., "On the effect of Pharmaceuticals on Bacterial Ammonium Oxidation", 15th Annual meeting, SETAC Europe, Lille, France, (2005)

84. Dokianakis S.N., M. Kornaros, G. Lyberatos, "Effect of attachment of nitrite oxidizers to CSTR walls on the estimation of kinetic coefficients", IWA Specialized Conference "Nutrient Management in Wastewater Treatment Processes and Recycle Streams", 19-21 September, Krakow, Poland (2005)

85. Dokianakis, S.N., Kornaros, M.E., G. Lyberatos, "Experimental and Modeling Study of the Impact of Five Different Xenobiotics on Bacterial Ammonium Oxidation", 12th International Symposium on Toxicity Assessment, Skiathos, Greece, (2005)

86. Dounavis S.A., Ntaikou I. and Lyberatos G, « Production of advanced biobased hydrogen enriched methane from waste glycerol in a two stage continuous system», International Conference on Industrial Waste & Wastewater Treatment & Valorisation, Athens, 21-23 May (2015)

87. Dounavis A. S., Ntaikou I., Lyberatos G., "Anaerobic fermentation of crude glycerol for hydrogen production using an up-flow column bioreactor", 13th World Congress on Anaerobic Digestion, Santiago de Compostela ,Spain, June 25-28, (2013)

88. Dounavis A., Ntaikou I. and Lyberatos G., "Biohydrogen production from crude glycerol using immobilized acidogenic cultures: effect of substrate concentration on conversion efficiency and yields", 13th International Conference on Environmental Science and Technology, Athens, Greece, September 5-7,(2013)

89. Dounavis A., C. Kravaris G. Savoglidis, and G. Lyberatos, "Automatic control of an anaerobic CSTR fed with acetic acid", 4th International Conference on Engineering for Waste Valorization, Porto, Portugal, September 10-13, (2012)

90. Dravillas K., Stamatelatos K. and Lyberatos G., "Anaerobic Digestion of Sweet Sorghum for Biogas Production in a Two-Stage Bioreactor System", Proc. WasteEng2005, Albi, France, (2005)

91. Dravillas,K., Stamatelatos, K. and G.Lyberatos, "Solid Waste Treatment of Sludge from Alcohol Fermentation of Energetic Plants (Sweet Sorghum) Using Biological Methods", Proc. 7th International Conference on Environmental Science and Technology, Ermoupolis, Syros Island, Greece, v.A, pp 166-173, September (2001)

92. Drillia P., Stamatelatou K. and G.Lyberatos *"Mobility of Pharmaceuticals in soil"*, 8th Conference on Environmental Science and Technology, Lemnos Greece, 8-10 September (2003)
93. Drillia P., Stamatelatou K. and G.Lyberatos *"The Fate of Pharmaceuticals on soil"*, ENVIRPHARMA, European conference on human and veterinary pharmaceuticals in the Environment in Lyon, FRANCE, 14-16 April (2003).
94. Drillia P., Stamatelatou K. and G.Lyberatos, *"Sorption of Pharmaceuticals on soil"*, SETAC Europe 13th Annual Meeting, Hamburg, Germany, April 27 – May 1, (2003)
95. Drillia, P., Kornaros, M. and G.Lyberatos, *"Wastewater Treatment from a Motor-oil Reforming Company using a Sequencing Batch Reactor (SBR)"*, paper e21166a, Proc. IWA 3rd World Water Congress, Melbourne, Australia, April 7-12, (2002)
96. Ferrari, B., Paxeus, N., Pinto G., Andreozzi, R., Marotta R., Vogna D., Lyberatos G. and J.Garric, *"Fate and Effect of Triclosan in the Aquatic Ecosystems: Data for a Risk Assessment"*, SETAC Europe 12th Annual Meeting, Vienna, Austria, May 12-16, (2002)
97. Filippou, K.; Bouzani, E.; Kora, E.; Ntaikou, I.; Papadopoulou, K.; Lyberatos, G. *"Polyhydroxyalkanoates (PHAs) Production from the Liquid Fraction of dried/shredded Food Waste"*, 18th International Conference of Environmental Science and Technology, Athen, Greece, August 30th - September 2nd (2023).
98. Filippou K., Bourcha P., Zarchaliou A., Papadopoulou K., Lyberatos G., *"Co-digestion of condensate produced from drying of Household Fermentable Waste and Landfill Leachate for Biogas production through Anaerobic Digestion"*, 9th International Conference on Sustainable Solid Waste Management Corfu, Greece, 15 - 18 JUNE (2022)
99. Flessia G., Kakogianni A., Marazioti K., Kornaros M and G.Lyberatos, *"Biological nitrogen removal from wastewater through nitrate production by-pass in an SBR"*, Proc. Conference on Small Wastewater Treatment Plants", pp.99-106, Portaria, Greece (2006).
100. Foundoulakis M., Stamatelatou K. and G.Lyberatos *"Impact and Biodegradability of Pharmaceuticals on the Anaerobic Digestion Process"*, SETAC Europe 13th Annual Meeting, Hamburg, Germany, April 27 – May 1, (2003)
101. Foundoulakis M., Stamatelatou K. and G.Lyberatos, *"Impact of Pharmaceuticals on the Anaerobic Digestion Process"*, SETAC Europe 12th Annual Meeting, Vienna, Austria, May 12-16, (2002)
102. Foundoulakis M., Stamatelatou K. and G.Lyberatos, *"Toxic Effects of Pharmaceuticals on Methanogenesis"*, Ecohazard 2003 Aachen, Germany September 14-16 (2003)
103. Fountoulakis M., Stamatelatou K., Batstone D. J. and Lyberatos G., *"Modelling of Anaerobic Digestion Kinetics of Secondary Sludge Contaminated with Xenobiotic Compounds"*, Proc. WasteEng 2005, Albi, France, (2005)
104. Fountoulakis M., Stamatelatou K., Batstone D. J. and Lyberatos G., *"Modelling of Anaerobic Digestion of Sludge Contaminated with Xenobiotic Compounds"*, 15th Annual meeting, SETAC Europe, Lille, France, (2005)
105. Fountoulakis M., Stamatelatou K., Gavala H.N., Skiadas I.V., Kampioti A. and Lyberatos G., *"Anaerobic Digestion of Secondary Sludge: Effect of Pretreatment and Post Treatment with the Presence of Xenobiotics"*, Proceedings 10th World Congress on Anaerobic Digestion, Montreal Aug.29-Sep.1, (2004)

106. Fouskakis G., Stergiopoulou E., Alexandropoulou M. Antonopoulou G., Ntaikou I., Lyberatos G. , *"Production of PHAs with enhanced properties from sugar-based wastewater in a two stage process"*, 16th International Conference on Environmental Science and Technology, CEST2019, 4-7 September 2019, Rhodes, Greece, (2019)
107. Frounda K., Kornaros M. and G.Lyberatos, *"Impact of Pharmaceuticals on the Activated Sludge Process"*, SETAC Europe 12th Annual Meeting, Vienna, Austria, May 12-16, (2002)
108. Frounda, K., Zissi, O., Kornaros, M. and G.Lyberatos, *"Biological Treatment of Textile Wastewater in an Aerobic Sequencing Batch Reactor"*, Proc. 7th International Conference on Environmental Science and Technology, Ermoupolis, Syros Island, Greece, v.C, pp 84-88, September (2001)
109. Galanopoulos C. and G. Lyberatos, " *Dynamic modelling and design of free water surface constructed wetland systems*", IWA Balkan Young Water Professionals Conference, Thessaloniki, Greece, 10-12 May (2015)
110. Galanopoulos C. and G. Lyberatos, *"Design Of a Free Water Surface Constructed Wetland Based On A Novel Dynamic Model"*, 2nd IWA Specialist Conference on EcoTechnologies for Sewage Treatment Plants 2014 "EcoSTP2014", Verona, (2014)
111. Galanopoulos C., Leotsinidis M. and Lyberatos G., *"Assessment of the plant role and modeling for a free water surface constructed wetlands wastewater treatment system"*, 13th International Conference on Environmental Science and Technology, Athens, Greece, September 5-7,(2013)
112. Gavala H.N., Skiadas I.V.,Ahring B.K. and Lyberatos G., *"Potential for Biohydrogen and Methane Production from Olive Pulp"*, Proceedings 10th World Congress on Anaerobic Digestion, Montreal Aug.29-Sep.1, (2004)
113. Gavala, H.N. and Lyberatos G., *«Changes in Microbial Growth Kinetics of Anaerobic Sludges Treating Different Synthetic Substrates»*, v.3, Proc. 8th International Conference on Anaerobic Digestion (AD-97), Sendai, Japan, (1997)
114. Gavala, H.N., Kopsinis,H., Stamatelatu, K., Skiadas, I.V. and Lyberatos G., *«Treatment of Dairy Wastewater Using a UASBR»*, v.3, Proc. 8th International Conference on Anaerobic Digestion (AD-97), Sendai, Japan
115. Gavala, H.N., Skiadas, I.V. and Lyberatos G., *«On the Deliberate Anaerobic Codigestion of Seasonally Generated Wastewaters from Small-scale Agroindustrial Plants»*, v.3, Proc. 8th International Conference on Anaerobic Digestion (AD-97), Sendai, Japan, (1997)
116. Gavala, H.N., Skiadas,I.V. and G.Lyberatos, *"On the Performance of a Centralised Digestion Facility Receiving Seasonal Agroindustrial Wastewaters"*, Proc. 4th International Symposium on Waste Mangement Problems in Agroindustries, Istanbul, Turkey,pp.153-160,(1998)
117. Gavala,H.N., Skiadas,I.V. and Lyberatos G., *«Anaerobic Codigestion of Agricultural Industries Wastewaters»*, IAWQ 18th Biennial International Conference, Singapore, 23-28 June (1996)
118. Gavrielatos, G.; Apostolopoulos, I.; Antonopoulou, G.; Ntaikou, I.; Lyberatos, G., *"Using household food waste extract for continuous bio-hydrogen production through dark fermentation"*, 11th International Conference on Sustainable Solid Waste Management; Rhodes, Greece; June 19-22, (2024)

119. Georgiopoulou M., G. Lyberatos, *"Life Cycle Assessment of Management of Municipal Solid Waste: A Case Study"* 5th International Conference on Sustainable Solid Waste Management, (2017)
120. Georgiopoulou M., G. Lyberatos, *"Management of the Biodegradable Fraction of Municipal Solid Waste with Drying Technology: A Case Study"*, 5th International Conference on Sustainable Solid Waste Management, (2017)
121. Harmon, J. and Pullamanapallip, P., Svoronos, S.A., Lyberatos, G. and Chynoweth D.P. *"Implementation of Adaptive Optimization on an Experimental Continuous Anaerobic Digester,"* 1989 AIChE Annual Meeting, San Francisco.
122. Harmon, J., Lyberatos, G. and Svoronos, S.A., *"Adaptive Optimization of Microbial Growth Processes,"* Proc. ACC, Boston, MA, pp. 652-656, (1985)
123. Harmon, J., Pullamanapallip, P., Lyberatos, G., Svoronos, S.A., and Chynoweth D.P. *"Stabilization of a Continuous Glucose-Fed Anaerobic Digester via Feed Rate Control,"* Proc. ACC, San Diego, CA, (1990)
124. Harmon, J., Pullamanapallip, P., Svoronos, S.A., Lyberatos, G. and Chynoweth, D.P., *"On-line Identification of a Variable Sampling Period Discrete Model and its Use for the Adaptive Control of Anaerobic Digestion,"* Proc. ACC, San Diego, CA, (1990)
125. Jurado, E., Antonopoulou, G. Lyberatos, G., Gavala, H.N., Skiadas, I.V., *"ADM1-based modeling of anaerobic digestion of swine manure fibers pretreated with aqueous ammonia soaking"*, 4th International Symposium on Energy from Biomass and Waste. Venice, Italy 12-15 November (2012)
126. Kalantzi S., Lytras M.G., Lytras C., Mathioudakis D., Papadopoulou K., Mamma D., Kekos D., Lyberatos G, *"Waste-Based Bioethanol Production: A circular economy model"*, 9th International Conference on Engineering for Waste and Biomass Valorisation WasteEng2022, Copenhagen (Denmark), June 27-30, 2022
127. Kalfas H. Skiadas I. V. Gavala H.N. and Lyberatos G., *"Anaerobic Treatment of Olive Pulp for the Production of Methane"*, Proc. WasteEng 2005, Albi, France, (2005)
128. Kamperidis, T.; Kastrinis, E.; Pandis, P.; Tremouli, A.; Lyberatos, G. *"Maximizing Wastewater Treatment Efficiency by Coupling a Periodic Anaerobic Baffled Reactor (PABR) with a Microbial Fuel Cell (MFC)"*, Rethink Food Resources, Losses, and Waste Third International Conference (RETASTE); Athens, Greece; September 27-29 (2023).
129. Kamperidis T; Tremouli A.; Couvas E.; Remoundaki E.; Tsakiridis P.; Lyberatos G. *"Indium recovery from 2nd generation photovoltaic panels using the microbial fuel cell technology"*, ISMET8 - International Society for Microbial Electrochemistry and Technology - GLOBAL CONFERENCE, (2022)
130. Kamperidis T., Pandis P. K., Vlachaki E. Tremouli A., G. Lyberatos. , *"Condensate originating from household food waste as a substrate for Microbial Fuel Cells"*, 17th International Conference on Environmental Science and Technology, 1-4 September 2021, Athens, Greece,(2021)
131. Kamperidis T., Tremouli A., Pandis P. K., Tsakiridis P., Remoundaki E., G. Lyberatos , *"Silver recovery and removal using a microbial fuel cell"*, 8th International Conference on Sustainable Solid Waste Management, Thessaloniki, Greece, 23 - 26 June (2021)
132. Kampranis A. , Ntaikou I. and Lyberatos G, *"Assessment of the appropriateness of constructed wetland effluents for irrigation of Zea mays"*, INTERNATIONAL SYMPOSIUM ON CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS, ISCW2019, 29th-31st August 2019, Patras, Greece, (2019)

133. Kanellos, G.; Tremouli, A.; Antarachas, M.; Lyberatos, G. *“The Effects of Hydraulic Retention Time, Applied Potential and Pretreatment Process During the Electrofermentation of Cheese Whey”*, Rethink Food Resources, Losses, and Waste Third International Conference (RETASTE); Athens, Greece; September 27-29 (2023).
134. Kanellos G., Monokrousou E., Tremouli A., Lyberatos G., *“Treatment of two-phase olive mill waste and degradation of phenolic compounds with simultaneous bio-electrochemical conversion of CO₂ to CH₄ using a Microbial Electrolysis Cell”*, 18th International Conference of Environmental Science and Technology, Athen, Greece, August 30th - September 2nd (2023).
135. Kanellos G.; Tremouli A.; Tsakiridis P.; Remoundaki E.; Lyberatos G., *“Silver recovery from end-of-life photovoltaic panels using a microbial fuel cell”*, ISMET8 - International Society for Microbial Electrochemistry and Technology - GLOBAL CONFERENCE 2022
136. Kanellos G., Tremouli A., Lytras G., Kondylis A., Lyberatos G., *“Co-digestion of the liquid fraction of food waste with waste activated sludge”*, 8th International Conference on Engineering for Waste and Biomass Valorisation, May 31-June 4, (2021)
137. Kaprara E., Zouboulis A.I., Mitrakas M., Lytras G. and G. Lyberatos, *“Hexavalent Chromium impacts and its removal from groundwater and wastewater: myths and perspectives”*, 4th International Conference on Industrial and Hazardous Waste Management, Chania, September 2-5,(2014)
138. Katsogiannis A.N., Kornaros M., and Lyberatos G. *“Effect of C:N ratio and type of organic carbon source to nitrogen removal in SBRs under conditions of bypassing nitrification and denitrification”*, 9th IWA Specialised Conference “Design, Operation And Economics Of Large Wastewater Treatment Plants”, Praha, Czech Republic, 1st – 4th September (2003)
139. Katsogiannis, A., Kornaros, M. and G.Lyberatos, *“Enhanced Nitrogen Removal in SBRs Bypassing Nitrate Generation Accomplished by Multiple Aerobic/Anoxic Phase Pairs”*, paper e21344a, Proc. IWA 3rd World Water Congress, Melbourne, Australia, April 7-12,(2002)
140. Katsoyiannis A., Kornaros M., and Lyberatos G. *“Adaptive optimization of a nitrifying Sequencing Batch Reactor (SBR)”*, IAWQ 19th Biennial International Conference, Vancouver Canada, 21-26 June (1998)
141. Katsoyiannis A., Kornaros M., and Lyberatos G. *“Effect of cycle time and aerobic/anoxic phase ratio on nitrogen removal in a Sequencing Batch Reactor (SBR)”*, 6th International Conference on Environmental Science and Technology, Samos, (1999).
142. Kiskira K., Lourentzatos I., Lymperopoulou Th., Tsakanika L.A., Pavlopoulos Ch., Papadopoulou K., Ochsenkühn K.M., Lyberatos G. and Ochsenkühn- Petropoulou M., *“Biorecovery of Scandium from Bauxite Residue”*, 9th International Conference on Sustainable Solid Waste Management Corfu, Greece, 15 - 18 JUNE (2022)
143. Kiskira K., Lymperopoulou Th., Tsakanika L.A., Pavlopoulos Ch., Papadopoulou K., Ochsenkühn K.M., Lyberatos G. and Ochsenkühn- Petropoulou M., *“Study of scandium extraction from Greek bauxite residue by Acetobacter Tropicalis”*, 12th International Conference on “Instrumental Methods of Analysis”(IMA-2021) 20-23 September (2021)
144. KISKIRA K., LYTRAS G., TSAKANIKA L-A, LYMPEROPOULOU T., HATZILYBERIS K., OCHSENKÜHN K-M, LYBERATOS G., OCHSENKÜHN-PETROPOULOU M., *“USE OF*

DIFFERENT MICROBIAL CULTURES FOR BIOLEACHING OF SCANDIUM FROM BAUXITE RESIDUE”, 3rd Conference on European Rare Earth Resources 6-9 Oct 2020 Virtual Conference, (2020)

145. KISKIRA K., G. LYTRAS, L. A. TSAKANIKA, T. LYMPEROPOULOU, K.-M. OCHSENKÜHN, G. LYBERATOS, M. OCHSENKÜHN-PETROPOULOU, "Biorecovery of scandium from bauxite residue", Bauxite residue valorisation and best practices Conference, virtual, September 29- 1 October, (2020)
146. Kora, E.; Lyberatos, G.; Ntaikou, I. *"Polyhydroxyalkanoates production from mixed microbial culture: effect of dissolved oxygen and pH control on yields and productivities"*, 18th International Conference of Environmental Science and Technology, Athen, Greece, August 30th - September 2nd (2023).
147. Kora E.; Arfani M.E.; Antonopoulou G.; Lyberatos G.; Ntaikou I., *"On the investigation of novel biocatalysts for the production of bioplastics from food wastes"*, Protection and Restoration of the Environment XVI, Kalamata, Greece July 5-8, (2022)
148. Kora E.; Mpatsouli K.; Patrino V.; Antonopoulou G.; Ntaikou I.; Tekerlekopoulou A.; Lyberatos G. *"Biotechnological Exploitation of discarded fruit juices towards bioplastics and microbial lipids"*, Protection and Restoration of the Environment XVI, Kalamata, Greece July 5-8, (2022)
149. Kora, E.; Plitsou, V.; Antonopoulou, G.; Ntaikou, I.; Lyberatos, G. *"A holistic approach for the utilization of an industrial sugary wastewater towards biofuels and bioplastics production"*, 9th International Conference on Sustainable Solid Waste Management, Corfu. Greece; June 15-18 (2022)
150. Kora, E.; Gkamprana, M.; Patrino, V.; Tekerlekopoulou, A.; Antonopoulou, G.; Ntaikou, I.; Lyberatos, G. *"Exploiting sugary wastewaters towards biohydrogen and high added value bioproducts"*, 9th International Conference on Engineering for Waste and Biomass Valorisation (WasteEng2022), Copenhagen, Denmark, June 27-30, (2022)
151. Kora E., Tsaousis P, Andrikopoulos K.S., Chasapis C., Ntaikou I., Voyiatzis G. Lyberatos G., *"Assessment of yields and properties of bioplastics production from acidified sugary wastewaters via mixed microbial cultures"*, 17th International Conference on Environmental Science and Technology, 1-4 September 2021, Athens, Greece., (2021)
152. Kora E., N. Kritikos, G. Antonopoulou, I. Ntaikou, G. Lyberatos. *"Continuous biohydrogen production from sugar based wastewaters and exploitation of effluent for PAHs production."*, Online Symposium on Circular Economy and Sustainability, 1-3 July, 2020, Alexandroupolis, Greece, (2020)
153. Kranias, I.; Kora, E.; Ntaikou, I.; Lyberatos, G., *"Comparison of polyhydroxyalkanoates production efficiency from acidified kitchen biowastes in sequential batch and fed batch mode"*, 11th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2024)&SECOTOX Conference; Lefkada island, Greece; June 16-20 (2024)
154. Kornaros M., and Lyberatos G. *"Comparison of alternative configurations for denitrification"* IAWQ 18th Biennial International Conference, Singapore, 23-28 June (1996)
155. Kornaros M., and Lyberatos G. *"Kinetic modelling, simulation and optimization of alternative configurations for denitrification"*, Protection and Restoration of the

Environment III, Proceedings of an International Conference, Chania, Greece, 197-20528-30 August (1996)

156. Kornaros M., C. Marazioti and G. Lyberatos, *"Optimization of biological nitrogen removal in a CSTR-cascade system"*, 10th International Conference on the Environmental Science and Technology (CEST2007), 5 –Cos island, Greece, 7 September (2007)

157. Kornaros M., Dokianakis S. and G. Lyberatos, *"Performance of nitrite oxidizers (NOB) during anoxic to aerobic transitions"*, 4th Sequencing batch Reactor Technology Conference, Rome Italy, April (2008)

158. Kornaros M., Marazioti K. and Lyberatos G. *"A pilot scale study of a Sequencing Batch Reactor treating municipal wastewater operated via the UP-PND process"*, Proceedings of the 8th IWA Specialized Conference on Small Water and Wastewater Systems (SWWS) and 2nd IWA Specialized Conference on Decentralised Water and Wastewater International Network (DEWSIN), Coimbatore, India - February 6th to 9th, (2008)

159. Kornaros M., Tsiliyannis C., Zafiri C. and Lyberatos G. *"Adaptive Optimization of Microbial Growth Processes in a Sequencing Batch Reactor (SBR)"*, 1st European Symposium on Biochemical Engineering Science, Dublin City, 19-21 September (1996)

160. Kornaros M., Zafiri C., Fragopoulou, N., Koutsikopoulos C. and Lyberatos G. *"Monitoring and evaluation of key ecological parameters of the Koutavos lagoon at Kefalonia (Greece)"*, Proceedings of the 5th Conference on Environmental Science and Technology, Molyvos, Lesvos, Greece, vol. B, 466-4741-4 September (1997)

161. Kornaros, M. and G. Lyberatos, *"Biological Treatment of Wastewaters from a Dye Manufacturing Company Using a Trickling Filter"*, Proc. 7th International Conference on Environmental Science and Technology, Ermoupolis, Syros Island, Greece, v.C, pp 217-225, September (2001)

162. Kornaros, M., Zafiri, C. and Lyberatos, G., *"Modeling and Optimization of Denitrification under Carbon Source Limited Growth"*, Proc. 3rd Conf. on Environmental Science and Technology, Univ. of the Aegean, pp. 357-370, (1993)

163. Koumelis I., Dimitrelos G., Ntaikou I., Lyberatos G., *"Production of biodegradable plastics from synthetic substrates and crude glycerol via enriched bacterial cultures"*, FOURTH INTERNATIONAL CEMEPE & SECOTOX CONFERENCE, MYKONOS ISLAND, GREECE, JUNE 24-28, (2013)

164. Koumelis I., Ntaikou I., Iatridi Z., Kamilari M., Tsitsilianis C. and Lyberatos G., *"Production of polyhydroxyalkanoates from mixed microbial consortia derived from soil: Effect of nitrogen limitation on microbial shift and properties of recovered polyesters"*, 13th International Conference on Environmental Science and Technology, Athens, Greece, September 5-7, (2013)

165. Kourmentza C.C., Koutrouli E.C., Ntaikou I., Stamatelatou K., Kornaros M. and G. Lyberatos, *"Exploitation of olive oil mill wastewater for combined bio-fuels and biopolymers production"*, 2nd International Conference on Engineering for Waste Valorisation (WasteEng08), Patras, Greece, (2008).

166. Kourmentza C.C., Ntaikou I., Kornaros M. and G. Lyberatos, *"Production of PHAs from mixed and pure cultures of Pseudomonas sp. using short chain length fatty acids as carbon source under nitrogen limitation"*, Protection and Restoration of the Environment IX, Kefalonia, Greece (2008).

167. Koutrouli E.C., Gavala H.N., Skiadas I.V. and Lyberatos G., *“Biological Fermentative Hydrogen Production from Olive Pulp at 35°C”*, Proceedings 10th World Congress on Anaerobic Digestion, Montreal Aug.29-Sep.1, (2004)
168. Koutrouli E.C., Gavala H.N., Skiadas I.V. and Lyberatos G., *“Mesophilic Biohydrogen Production from Olive Pulp”*, Proc.WasteEng 2005, Albi, France, (2005)
169. Kravaris C., Savvoglidis G., Lyberatos G., Stamatelatou K. and I.Karafyllis, *“Robust Global Stabilization of Continuous Bioreactors”*, paper 270f, Proc. AIChE Annual meeting, San Francisco, (2006)
170. Liakou S., Kornaros M., and Lyberatos G. *“Pretreatment of azo dyes using ozone”*, 2nd Specialized Conference on Pretreatment of Industrial Wastewaters (IAWQ), Athens, Greece, 315-322, 16-18 October (1996)
171. Liakou,S. and Lyberatos G., *“Textile Industry Wastewater Treatment using Ozone”*, Proc.4th Conference on Environmental Science and Technology, University of the Aegean,(1995)
172. Lyberatos G., *“Food waste prevention and valorization”*, 10th International Conference on Engineering for Waste and Biomass Valorisation, Sendai Japan, August 20-23, (2024)
173. Lyberatos G., *“Food waste prevention and valorization”*, Advanced Research Workshop (ARW) in the Environmental Security Focus Area named “Security Enhancement for Climate Changes impacting Urban Resources “SECCURE”, Montelibretti (Rome), 9-12 of July (2024)
174. Lyberatos G. *“Food Waste Valorization”*, 4th International Symposium on Biomass/Wastes Energy and Environment (BEE 2023); Nanchang, China; September 21-23 (2023).
175. Lyberatos G. *“Food Waste Valorization”*, ICB 2023: The 8th International Conference on Biorefinery and Biomanufacturing, Athens (2023)
176. Lyberatos, G, *“Separate collection of food waste and composting for an island community”*, Rethink Food Resources, Losses, and Waste Third International Conference (RETASTE); Athens, Greece; September 27-29 (2023).
177. Lyberatos, G. *“Combined management of food waste and municipal wastewater”*, 18th International Conference of Environmental Science and Technology, Athens, Greece, August 30th - September 2nd (2023).
178. Lyberatos G., *“Integrated management of municipal wastewater with source collected biowaste”*, "Protection & Restoration of the Environment - PREXVI", Kalamata, July 5-8 (2022)
179. Lyberatos G. , *“Collection and valorization of biowaste in the Municipality of Halandri towards a circular economy: the Waste4Think project”*, International Conference for Sustainable Biowaste Management, Lemessos, December 6 (2019).
180. Lyberatos G., *“Design of constructed wetlands for the treatment of municipal wastewater through modeling”*, INTERNATIONAL SYMPOSIUM ON CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS, ISCW2019, 29th-31st August 2019, Patras, Greece, (2019)
181. Lyberatos G., *“Biotechnological valorization of waste and biomass for the production of energy and biofuels”*, 15th International Conference on Environmental Science and Technology, Rhodes, Greece, invited talk, (2017)

182. Lyberatos G., *“Valorization of presorted household food waste”*, The 1st International Symposium on BioEnergy and Environment (BEE 2017): Tianjin, China, invited talk (2017)
183. Lyberatos G., *“Wastes and biomass valorization for biofuels and energy production”* 17th International Scientific Conference “Sakharov Readings 2017: Minsk, Belarus, invited talk, (2017).
184. Lyberatos G., *“Wastes and biomass valorization for biofuels, energy and biopolymers production”*, QAFCO – TEXAS A&M AT QATAR CONFERENCE 2017 FOCUSES ON ENERGY, FOOD AND WATER SECURITY FOR THE FUTURE (2017)
185. Lyberatos G., *“Periodic Bioprocesses and their application on waste treatment and valorization”*, WasteEng 2014: 5th International Conference on Engineering for Waste and Biomass Valorisation, Rio de Janeiro, Brazil, from August 25 – 28, (2014)
186. Lyberatos G., *“Periodic bioprocesses and their use for nutrient removal and for the production of gaseous biofuels from agroindustrial wastes”*, 3rd BioProScale Symposium "Inhomogeneities in large-scale bioprocesses: System biology and process dynamics", Berlin, 2-4 April (2014)
187. Lyberatos G., *“Production of gaseous biofuels and biopolymers from wastes and biomass”*, COBEQ, 20th Brazilian Chemical Engineering Congress, Florianapolis, Brazil, 19-22 October, (2014)
188. Lyberatos G., *“Undesirable persistent organic substances as a limitation to water and sludge reuse”*, IWA Regional Conference on Wastewater Purification & Reuse, Herakleion, March (2012)
189. Lyberatos G., *“Biotechnological processes for wastes and biomass valorisation: Production of biofuels, energy and biopolymers”*, Korean Society of Applied Biological Chemistry, Gwangju, Nov.8-10, (2012)
190. Lyberatos G., *“Biotechnological processes for the valorisation of waste for the production of fuels and/or useful by-products”*, International Sakharov Environmental University, Minsk, Belarus, May (2009)
191. Lyberatos G., *“Biotechnological production of hydrogen and biogas from energy crops and agroindustrial wastes”*, 3rd International Biotechnology Conference (IQBF), Athens, October 5-7, (2006)
192. Lyberatos G., Antonopoulou G., Koutrouli E, Kalfas H., Gavala H., Skiadas I. , *“Gaseous Biofuels Production from Sweet Sorghum and Olive Pulp”*, paper 584c, Proc. AIChE Annual meeting, San Francisco, (2006)
193. Lyberatos, G., Antonopoulou G., Ntaikou I., *“Effect of pretreatment of sweet sorghum biomass on methane generation”*, 4th International Conference on Engineering for Waste Valorization, Porto, Portugal, September 10-13, (2012)
194. Lyberatos G., Gavala H., Kornaros M., Stamatelatou K. and K. Angelopoulos *“H₂ production out of organic solid waste”*, Eurosummer School, “Biotechnology in organic waste management”, Wageningen, The Netherlands, June 29-July 4, (2003)
195. Lyberatos G., K. Stamatelatou, M. Kornaros, P. Drillia, S. Dokianakis, C. Frouda, and M.S. Fountoulakis *“Impact and fate of the antibiotic sulfamethoxazole in wastewater treatment and disposal”* oral EMCC-3, 3rd Chemical Engineering Conference for Collaboration Research in Eastern Mediterranean, Thessaloniki, Greece, 13-15 May (2003).

196. Lyberatos G., Klimantos P., Vassilakis I. and Kornaros M., *"On the Impact of Land Application of Secondary Sludge"*, Proc. Protection and Restoration of the Environment VI", pp.961-968, Skiathos, Greece, July 1-5, (2002)
197. Lyberatos G., Kornaros M., Marazioti C.A *"Sequencing Batch Reactor Achieving Enhanced Nitrogen Removal from Municipal Wastewaters through Bypassing Nitrite Oxidation - a Pilot Scale Study"*, paper 299w, Proc. AIChE Annual meeting, San Francisco, (2006)
198. Lyberatos G., Kornaros M., Zafiri C. and Zissi U. *"Modelling and Optimization for Environmental Biotechnology"*, OECD Workshop Amsterdam '95 on Wider Application and Diffusion of Bioremediation Technologies, 19-21 November (1995)
199. Lyberatos G., Stamatelatos K., Fountoulakis M., Pakou C., Kornaros M. *"On the Fate of Xenobiotic Compounds during Alternative Methods of Municipal Sludge Treatment"*, paper 497a, Proc. AIChE Annual meeting, San Francisco, (2006)
200. Lyberatos G., *"The Koutavos Lagoon: Environmental Condition and Perspectives"*, International Scientific Symposium on the Role of the Environment in Agriculture and Rural Development, Kefallonia, Greece, June 14-16, (2002)
201. Lyberatos, G., Dokianakis, S., Fountoulakis, M., Kornaros M., Karantzis K. and E. Polychronopoulou, *"Biological Treatment of sewage from ships using SBR technology"*, Proc. International Conference "Shipping : Technology and Environment, Piraeus, Sep. (2001)
202. Lyberatos, G. and Svoronos, S.A., *"Modelling for Environmental Technology"*, in "Harnessing Biotechnology for the 21st Century", eds, M.R. Ladisch and A. Bose", American Chemical Society, Washington D.C., (1992)
203. Lyberatos, G., *"Feedback Identification in the Presence of Time-Delay,"* Microfiche of the AIChE Annual Meeting, Chicago, IL, paper 81g, (1985)
204. Lyberatos, G., *"Fate and Impact of Pharmaceuticals on municipal wastewater treatment"*, 1st International Greek Biotechnology Forum, Athens, Greece, June 10-12, (2004)
205. Lyberatos, G., Bailey, J.E. and Kuszta B., *"Identification and Modelling of Chemical Reaction Systems via Multivariable Feedback-Higher Order Bifurcations"*, Microfiche of the AIChE Annual Meeting, San Francisco, CA, paper 139g, (1984)
206. Lyberatos, G., Svoronos, S.A., Svoronos, A.A., Koopman, B. , *"On Optimization and Control of Biological Nitrogen Removal,"* Proc. Biological Nitrogen and Phosphorus Removal, TREEO Gainesville, FL, pp. 71-100, (1986).
207. Lyberatos, G., Svoronos, S.A., *"Optimal Periodic Square-Wave Forcing: A New Method,"* Proc. ACC, Minneapolis, MN, pp. 257-262, (1987)
208. Lyberatos G. Gavala, H.N. and Stamatelatos A., *"An Integrated Approach for Management of Agricultural Industries Wastewaters"*, Second World Congress of Nonlinear Analysis, Athens, Greece, July (1996)
209. Lymperopoulou T., Zarkaliou A., Papadopoulou K., Lyberatos G. *"Year-round assessment of water pollutants in five Greek rivers"*, 18th International Conference of Environmental Science and Technology, Athens, Greece, August 30th - September 2nd (2023).
210. Lytras M.G , Papadopoulou K. , Batsalia M. , Mathioudakis D. , Vlysidis A. , Vlyssides A.G. and Lyberatos G., *"Co-composting of green and fermentable household waste for sustainable municipal waste management"*, INTERNATIONAL SYMPOSIUM

ON CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS, ISCW2019, 29th-31st August 2019, Patras, Greece", (2019)

211. Lytras G. M., D. Chatzikonstantinou, A. Tremouli, K. Papadopoulou, G. Lyberatos, "Biotechnological removal of Cr(VI) by using a MFC (MFC) and a partitioned sequencing batch reactor(SBR)", 7th European Bioremediation Conference (EBC-VII) and the 11th International Society for Environmental Biotechnology conference (ISEB 2018), 25-28 June 2018, Chania, Greece, (2018)

212. Lytras G.M., D. Mathioudakis, K. Papadopoulou, T. Dimitriou, D. Kenanidis, G. Lyberatos, "Use of a lab-scale CSTR-type anaerobic digester for the design of a pilot-scale digester producing biomethane from a Food Residue Biomass Product using ADM1", 16th World Congress on Anaerobic Digestion, 23-27 June 2019 Delft, Netherlands, (2019)

213. Lytras G.M., I. Michalopoulos, D. Mathioudakis, T. Dimitriou, I. Zacharopoulos, C. Lytras, K. Papadopoulou, G. Lyberatos, "Waste-To-Biofuels: Valorization of food residue biomass (FORBI) for hydrogen and methane production", 7th International Conference on Engineering for Waste and Biomass Valorisation, 2-5 July, 2018, Prague, Czech Republic, (2018)

214. Lytras G., Lytras C., Papadopoulou C., Ntaikou I. and G. Lyberatos, "A novel Two Phase Solid: Liquid Bioreactor (TPSLB) for microbial Cr(VI) removal from wastewaters", IWA Balkan Young Water Professionals Conference, Thessaloniki, Greece, 10-12 May (2015)

215. Lytras G. and G. Lyberatos, "Two-phase microbial removal of hexavalent chromium", 2nd IWA Specialist Conference on EcoTechnologies for Sewage Treatment Plants 2014 "EcoSTP2014", Verona ,(2014)

216. Lytras G., Malavetas G., Lytras C., G. Lyberatos, "On the potential toxicity of "promising" chromium extractants", SYMBIOSIS INTERNATIONAL CONFERENCE 2014, Athens, 19-21 June (2014)

217. Lytras G., Bliatsou C., Georgiou I., Lytras C., Ntaikou I. and Lyberatos G., "Towards a novel two phase liquid: liquid bioreactor for microbial Cr(VI) removal from wastewaters", WIN4LIFE conference, Tinos Island, 19-21 September, (2013)

218. Marazioti C. E., Flessia G., Vlachos P., Koutrouli E., Ntaikou I., Antonopoulou G., Pakou C., Kalfas C., Kornaros M. and Lyberatos G. "On the Environmental State of the Mesologgi lagoon in Greece". International scientific conference Sakharov Readings 2008: Environmental Problems of the XXIth Century, Minsk, Republic of Belarus, (2008).

219. Marazioti C., Kornaros M., and Lyberatos G. "Impact of the feed fraction of an SBR-system in the nitrification-denitrification process", 8th Conference on Environmental Science and Technology, Lemnos Greece, 8-10 September (2003).

220. Marazioti C., Kornaros M., and Lyberatos G. "Kinetic modeling of SBR operation for biological nitrogen removal", proceedings of IWA Regional Symposium on Water Recycling in Mediterranean Region, Iraklio, Crete, 217-223, 26-29 September (2002).

221. Marazioti C., Kornaros M., and Lyberatos G., «A novel SBR system for biological nutrient removal», Balkans Regional Young Water Professionals Conference, Belgrade, Serbia, April 29-30 (2010)

222. Marazioti, C., Kornaros M. and G. Lyberatos, "Kinetics of Denitrification by a Mixed Culture of *Pseudomonas denitrificans* and *Bacillus subtilis*", Proc. 7th

- International Conference on Environmental Science and Technology, Ermoupolis, Syros Island, Greece, v.B, pp 588-595, September (2001)
223. Mathioudakis D., I. Michalopoulos, K. Kalogeropoulos, K., Papadopoulou, G. Lyberatos, *"Anaerobic digestion of dried/shredded source-separated household food waste in a periodic anaerobic baffled reactor (PABR)"*, Latin American Meetings on Anaerobic Digestion, (2020)
224. Mathioudakis D., Lytras G-M., Giannakopoulou G., Papadopoulou K., Lyberatos G., *"Valorization of a food biomass product (FORBI) in a two stage anaerobic digestion system for the production of hythane under thermophilic conditions"*, 10th International Conference on Environmental Engineering and Management, 18-21 September 2019, Iasi, Romania, (2019)
225. Mathioudakis D., Papadopoulou K., Lytras K., Pavlopoulos C., Dimopoulos N., Niakas S., Melanitou., Lekkas D., Lyberatos G, *"A detailed characterization of household Municipal Solid Waste"*, 16th International Conference on Environmental Science and Technology, CEST2019, 4-7 September 2019, Rhodes, Greece, (2019)
226. Mathioudakis D., I. Michalopoulos, K. Kalogeropoulos, K. Papadopoulou, G. Lyberatos, *"Methane production from dried/shredded food waste in a Periodic Anaerobic Baffled Reactor (PABR)"*, 7th European Bioremediation Conference (EBC-VII) and the 11th International Society for Environmental Biotechnology conference (ISEB 2018), 25-28 June 2018, Chania, Greece, (2018)
227. Mathioudakis D., G.M. Lytras, D. Fotiou, C. Lytras, K. Papadopoulou, G. Lyberatos, *"Valorization of a Food Residue Biomass product in a two-stage anaerobic digestion system for the production of hythane"*, 6th International Conference on Sustainable Solid Waste Management, 13-16 June 2018, Naxos, Greece, (2018)
228. Melcon J. C., Kornaros M., Zissi U. and Lyberatos G. *"Kinetic Modelling of Bacillus subtilis growth and denitrification under transient operating conditions"*, 1st European Symposium on Biochemical Engineering Science, Dublin City, 19-21 September (1996)
229. Menis N., Antonopoulou G., Ntaikou I., Lyberatos G., *"On the exploitation of kitchen biowastes for ethanol production via co-cultures of the yeasts Saccharomyces cerevisiae and Pichia stipitis"*, 15th International Conference on Environmental Science and Technology, Rhodes, Greece, (2017)
230. Michalopoulos I., G.M. Lytras, S. Michalakidi, S. Zgouri, K. Papadopoulou, G. Lyberatos, *"Evaluation of in-vessel and pilot scale composting as an alternative for food waste valorization"*, 7th International Conference on Engineering for Waste and Biomass Valorisation, 2-5 July, 2018, Prague, Czech Republic, (2018)
231. Michalopoulos I., Lytras G.M., Papadopoulou K., Goumenos A., Zacharopoulos I., Lytras C., and Lyberatos G., *"Hydrogen and Methane Production from Food Residue Biomass Product (FORBI)"*, 15th International Conference on Environmental Science and Technology, Rhodes, Greece, (2017)
232. Misailidou D, Alexandropoulou M, Antonopoulou G, Ntaikou I, Lyberatos G *"Continuous bio-hydrogen production from household food waste: the possibility of symbiosis with municipal wastewaters treatment"*, 10th International Conference on Sustainable Solid Waste Management, Chania, Greece, 21 -24 June (2023)
233. Ntaikou, I.; Georgopoulou, D.; Alexandropoulou, M.; Antonopoulou, G.; Hashem, M.; Lyberatos, G. *"Optimization of sugars recovery from spoiled date fruits*

for sustainable bioethanol production from yeasts co-cultures", 9th International Conference on Sustainable Solid Waste Management, Corfu. Greece; June 15-18 (2022)

234. Ntaikou I., Antonopoulou G., Kokkinopoulou I., Ladakis D., Tragoulias K., Zhang Y., Yan Q., Nan J., Pissaridi K., Spiliotis V., Ladikos D., Moutsatsou P., Koutinas A., G. Lyberatos., *"Designing sustainable processes for the valorization of industrial and environmental waste streams towards industrializable polyhydroxyalkanoates."*, 17th International Conference on Environmental Science and Technology, 1-4 September 2021, Athens, Greece, (2021)

235. Ntaikou I., Antonopoulou G., Kokkinopoulou I., Ladakis D., Tragoulias K., Zhang Y., Yan Q., Nan J., Pissaridi K., Spiliotis V., Ladikos D., Moutsatsou P., Koutinas A., G. Lyberatos., *"Development and demonstration of key technologies for industrializable polyhydroxyalkanoates production from industrial and environmental waste streams"*, 7th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2021) and SECOTOX Conference, 20 -24 July 2021, Thessaloniki, Greece, (2021)

236. Ntaikou I., Stergiopoulou E. M., Alexandropoulou M., Antonopoulou G. and G. Lyberatos., *"Dark fermentation of a sugar-based wastewater: The effect of bioreactor start-up and hydraulic retention time on distribution of metabolites and hydrogen yield"*, 8th International Conference on Engineering for Waste and Biomass Valorisation, May 31-June 4, (2021)

237. Ntaikou I., Antonopoulou G., Drakopoulos V. Dailianis S., Lyberatos G., *"Optimization of decentralized treatment and sanitation of domestic wastewaters via constructed wetlands: The DOMUS_CW project"*, 16th International Conference on Environmental Science and Technology, CEST2019, 4-7 September 2019, Rhodes, Greece, (2019)

238. Ntaikou I., Antonopoulou G., Dailianis S., Drakopoulos V. and Lyberatos G., *"Optimization of decentralized wastewater treatment and sanitation via constructed wetlands: the DOMUS_CW project"*, INTERNATIONAL SYMPOSIUM ON CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS, ISCW2019, 29th-31st August 2019, Patras, Greece,(2019)

239. Ntaikou I., S. Siankevich, M. Alexandropoulou, G. Antonopoulou, G. Lyberatos, *"Enhancement of digestibility of olive oil mill residues through different thermo-chemical pretreatment approaches"*, 7th International Conference on Sustainable Solid Waste Management, Heraklion, Crete, June 26-29, (2019)

240. Ntaikou I., G. Antonopoulou, S. Dailianis, V. Drakopoulos, F. Harizah, P. Laze, J. Shehu, I. Vyrides, G. Lyberatos, *"Optimization of decentralized domestic wastewater treatment and sanitation via Constructed Wetlands: a case study"*, 5th International Conference on small and decentralized water and wastewater treatment plants. 26-29 August 2018, Thessaloniki, Greece, (2018)

241. Ntaikou I., G. Antonopoulou and G. Lyberatos, *"Agro- industrial residues for liquid and gaseous biofuels production: Effect of pretreatment on the enzymatic hydrolysis and the yields of final products"*, 7th European Bioremediation Conference (EBC-VII) and the 11th International Society for Environmental Biotechnology conference (ISEB 2018), 25-28 June 2018, Chania, Greece, (2018)

242. Ntaikou I., G. Antonopoulou, S. Dailianis, V. Drakopoulos, F. Harizah, P. Laze, J. Shehu, I. Vyrides, G. Lyberatos, *"Holistic approach for the management of domestic*

- wastewaters via constructed wetlands and exploitation of biomass and effluents for nutrients, water and energy recovery”, 7th International Conference on Engineering for Waste and Biomass Valorisation, 2-5 July, 2018, Prague, Czech Republic , (2018)
243. Ntaikou I., Antonopoulou G., Alexandropoulou M., Lyberatos G., “Energy recovery from domestic food wastes via microbiological processes”, 6th International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE), Thessaloniki, Greece, (2017)
244. Ntaikou I., Antonopoulou G., Gavala H. N., Skiadas I.V., Angelopoulos K., G. Lyberatos. “Exploitation of sweet sorghum biomass for biofuels production using mixed acidogenic and methanogenic cultures and pure cultures of *Ruminococcus albus*”, International scientific conference Sakharov Readings 2008: Environmental Problems of the XXIth Century, Minsk, Republic of Belarus, (2008)
245. Ntaikou i., Dounavis A., Koumelis I., Lyberatos G., “Valorization of waste glycerol via microbial processes in a two stage continuous system”, 7th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries (EMCC7), Corfu, 27 April – 1 May (2012)
246. Ntaikou I., Gavala H.N. and Lyberatos G. “Effect of the substrate concentration on the final hydrogen yield and distribution of metabolites during the growth of the hydrogen – producing bacterium *Ruminococcus albus* on glucose”, 1st International Conference on Advances in Biotechnology-Industrial Microbial Biotechnology, Thessaloniki, Greece, Nov.(2010)
247. Ntaikou I., H.N. Gavala and G. Lyberatos, “Kinetics of metabolism during growth of the hydrogen-producing bacterium *Ruminococcus albus* on glucose, European Congress of Chemical Engineering (ECCE-6), Copenhagen, 16-20 September (2007)
248. Ntaikou I., H.N. Gavala and G. Lyberatos, “Kinetics of hydrogen production during growth of the bacterium *Ruminococcus albus* on sweet sorghum extract”, 10th International Conference on the Environmental Science and Technology (CEST2007), Cos island, Greece, 5 – 7 September (2007)
249. Ntaikou I., H.N. Gavala, G. Lyberatos “Effect of hydrogen partial pressure on the formic acid yield and degradation rate during growth of the hydrogen-producing bacterium *Ruminococcus albus*”, Protection and Restoration of the Environment #8, Chania, Greece, July 3-7, (2006)
250. Ntaikou I., Peroni C.V., Kourmentza C., Stoler M., Ilieva V.I., Chianese A., Chielini E. and G. Lyberatos, “Production of poly-hydroxyalkanoates (PHAs) from three-phase olive oil mill wastewater at a two stage semi-pilot scale system, 3rd International Conference on Engineering for Waste and Biomass Valorisation”, Beijing, China, May 17-19, (2010)
251. Ntaikou I., S. Senkevich, E. Koutros, M. Kornaros AND G. Lyberatos «On the exploitation of lignocellulosic biomass for biohydrogen production using the bacterium *Ruminococcus albus*», "VENICE 2010, Third International Symposium on Energy from Biomass and Waste, Cini Foundation, Venice, Italy, 8-11 November (2010)
252. Ntaikou, I., Antonopoulou, G., Lyberatos, G., «Biohydrogen Production from Biomass and Wastes via Dark Fermentation: A Review", ACS Spring 2010 National Meeting, San Francisco, USA, March 21-25, (2010)
253. O'Neil, D.G., Li, W.C., Lyberatos, G., "Optimization of Enzyme Production in Continuous Cultures with Mixed Substrates," Proc. ACC, Minneapolis, MN, pp. 693-698, (1987)

254. O'Neil, D.G., Lyberatos, G., "Discrimination Between Dynamic Models for the Chemostat," Microfiche of the AIChE Annual Meeting, Miami Beach, FL, paper 93h, (1986)
255. O'Neil, D.G., Lyberatos, G., Svoronos, S.A., "Adaptive Determination of Bifurcation Points," Microfiche of the AIChE Annual Meeting, Washington, DC, paper 172j, (1988)
256. Pakou C., Fountoulakis M., Drillia P., Kampioti A., Stamatelatou K. and Lyberatos G., "Microwave-assisted Extraction – HPLC- FD for the Assessment of the Occurrence and the fate of Polycyclic Aromatic Hydrocarbons in Sewage Sludge", Proc.WasteEng 2005, Albi, France, (2005)
257. Pakou C., Kornaros M., Stamatelatou K. and Lyberatos G., "Fate of Linear Alkylbenzene Sulfonate (LAS) during Composting", Proc. WasteEng 2005, Albi, France (2005)
258. Pakou C., Kornaros M., Stamatelatou K. and Lyberatos G., "Fate of NPEO, DEHP and PAHs during Composting of Raw and Anaerobically Digested Sludge", 15th Annual meeting, SETAC Europe, Lille, France, (2005)
259. Pakou C., Stamatelatou K., Kornaros M and Lyberatos G., «On the removal of xenobiotics during the composting of different sludge types», International Conference on Xenobiotics in the Urban Water Cycle XENOWAC 2009, March 11-13, Paphos, Cyprus, (2009)
260. Papadopoulou K., Ntaikou I., Antonopoulou G., Lyberatos G., *Evaluating the potential for Industrial-Urban Symbiosis for biofuels and bioplastics production*, 10th International Conference on Engineering for Waste and Biomass Valorisation August 20-23, 2024 Sendai, Japan
261. Papadopoulou, K.; Pavlopoulos, C.; Zarkaliou, A.; Lyberatos, G., "An Industrial-Urban Symbiosis (I-US) concept for the production of gaseous biofuels", Rethink Food Resources, Losses, and Waste Third International Conference (RETASTE); Athens, Greece; September 27-29 (2023).
262. Papadopoulou K., Pavlopoulos C., Zarkaliou A., Lyberatos G., "Anaerobic Co-Digestion of olive oil wastewater with municipal solid and liquid waste: An Urban-Industrial symbiosis concept", 18th International Conference of Environmental Science and Technology, Athen, Greece, August 30th - September 2nd (2023).
263. Papadopoulou K., Kolaza G., Zarkaliou A., Lyberatos G. , "Towards a circular economy for Decentralized Management of Biowaste", 9th International Conference on Engineering for Waste and Biomass Valorisation WasteEng2022, Copenhagen (Denmark), June 27-30, (2022)
264. Papadopoulou K., G.M. Lytras, D. Mathioudakis, G. Lyberatos. "Fermentable household waste management in a circular economy: municipality of Halandri, Greece case", 17TH INTERNATIONAL WASTE MANAGEMENT AND LANDFILL SYMPOSIUM, 30 SEPT - 04 OCT 2019 / FORTE VILLAGE / CAGLIARI / ITALY, (2019)
265. Papadopoulou K., H. Pavlopoulos, P. Georgiou, A. Peppas, L. Zoumpoulakis, G. Lyberatos., "Production of an adsorbent from food residue biomass (FORBI): Evaluation of its physical, chemical and adsorption properties", 7th International Conference on Engineering for Waste and Biomass Valorisation, 2-5 July, 2018, Prague, Czech Republic, (2018)

266. Papadopoulou K., K. Papanikola, I. Vaitzos, A. Peppas, C. Lytras, G.M Lytras, D. Mathioudakis, H. Pavlopoulos, G. Lyberatos, *"Valorization of a Food Residue Biomass product as a solid fuel for the production of pellets"*, 6th International Conference on Sustainable Solid Waste Management, 13-16 June 2018, Naxos, Greece, (2018)
267. Papadopoulou K., H. Pavlopoulos, P. Georgiou, A. Peppas, G. M. Lytras, L. Zoumpoulakis, G. Lyberatos, *"Production of an adsorbent from dried and shredded Household Food Waste"*, 6th International Conference on Sustainable Solid Waste Management, 13-16 June 2018, Naxos, Greece, (2018)
268. Papadopoulou C, Tsoumani A, Ntaikou I, Lyberatos G: *"Continuous fermentative hydrogen production from olive mill wastewater by a mixed acidogenic culture: effect of periodic feeding mode on hydrogen yield"*, In CEST2009: A-1076-1083, Chania, (Sep 2009)
269. Papadopoulou K., Alonso Vicario A., Niakas S., Melanitou E., Lytras C., Kornaros K., Zafiri C., Lyberatos G. *"Life Cycle thinking, the key for a Circular Economy: the Municipality of Halandri case"*, 15th International Conference on Environmental Science and Technology Rhodes, (2017)
270. Papadopoulou K., G. Lyberatos , J. Merino Lizarraga , I. López Torre , M. Ibarra, N. Zafeiri, C. Lytras, M. Kornaros, S. Egenfeldt-Nielsen, M. Giavini¹, R. Mariani, S. Colombo, G. Drosi, A. Schmidt, J. Dinis, M. Vila, P. Andriani, J. Arambarri, E. Melanitou, S. Niakas, A. Alonso-Vicario, *"Moving towards Life Cycle Thinking by integrating Advanced Waste Management Systems"*, 5th International Conference on Sustainable Solid Waste Management, Athens, Greece 2017
271. Papadoulis, A.V., Lyberatos, G., Svoronos, S.A., *"Algorithm for Adaptive Control of Activated Sludge Processes,"* Microfiche of the AIChE Annual Meeting, Miami Beach, FL, paper 125f, (1986)
272. Papanikola K., K. Papadopoulou, S. Kavouri, A. Korkolis, G. Lyberatos, *"Release of gases from the reaction of some inorganic industrial waste with water"*, 6th International Conference on Industrial and Hazardous Waste Management. 3-5 September 2018, Chania Crete, Greece, (2018)
273. Papanikola K., K. Papadopoulou, V. Rodogianni, A. Korkolis, G. Lyberatos, *"Experimental determination of self-heating and self-ignition risks of industrial hazardous wastes"*, 7th International Conference on Engineering for Waste and Biomass Valorisation, 2-5 July, 2018, Prague, Czech Republic, (2018)
274. Papanikola K., K. Papadopoulou, C. Tsiligiannis, A. Katsiampoulas, E. Chalarakis, M. Georgiopoulou, G. Lyberatos, *"Food Residue Biomass Product as an Alternative Energy Source for the Cement Industry"*, 5th International Conference on Sustainable Solid Waste Management, Athens, Greece, (2017)
275. Pavlopoulos C., Panitsa O.A. Theodoropoulou M., Gkioni S., Papadopoulou K., Kioupis D., Kakali G., Lyberatos G. *"Production of hydrogen and geopolymers from end of life photovoltaic panels"*, 18th International Conference of Environmental Science and Technology, Athen, Greece, August 30th - September 2nd (2023).
276. Pavlopoulos C., Papadopoulou K., Lyberatos G., *"End of Life Management of Photovoltaic Panels: A focus on recycling technologies"*, 9th International Conference on Engineering for Waste and Biomass Valorisation WasteEng2022, Copenhagen (Denmark), June 27-30, (2022)
277. Pavlopoulos C., Papadopoulou K., Lyberatos G., *"Photocatalytic Hydrogen production using recovered Silicon from End of Life (EoL) photovoltaic panels"*, 9th

International Conference on Sustainable Solid Waste Management Corfu, Greece, 15 - 18 JUNE (2022)

278. Pavlopoulos C., Kyriakopoulou V., Papadopoulou K. Lyberatos G., "Catalytic reduction of Cr (VI) using recovered Silicon from end-of-life photovoltaic panels as a catalyst", 17th International Conference on Environmental Science and Technology, 1-4 September 2021, Athens, Greece, (2021)

279. Pavlopoulos C., Michopoulos D., Papadopoulou K, Lymperopoulou Th., Skaropoulou A., Tsvilis S., Lyberatos G. , "Stabilization / Solidification of 1st generation End-of-Life Photovoltaic Panel waste in cement mortar", 8th International Conference on Sustainable Solid Waste Management, Thessaloniki, Greece, 23 - 26 June (2021)

280. Pavlopoulos C., K. Rigas, P. Georgiou, P. Tsakiridis, L. Zoumpoulakis, E. Remoundaki, K. Papadopoulou, G. Lyberatos, "Production of Photocatalyst from Silicon Recovered from End-of-Life Photovoltaic Panel", International Conference "Protection and Restoration of the Environment XV", Greece, (2020).

281. Potamianos, E. , Kornaros M. and G.Lyberatos "G.I.S. as a Tool for Solid Waste Management", Conference on Integrated Solid Waste Management in Western Greece, U.of Patras and Technical Chamber of Greece, May 29, (2002)

282. Pullamannappallil, P., Owens J.M., Svoronos, S.A., Chynoweth D.P. and G.Lyberatos, "Development and Experimental Verification of an Expert System for the Control of Anaerobic Digesters", 1993 AIChE meeting, (1993)

283. Pullamannappallil , P., Owens,J.M., Svoronos S.A., Lyberatos G. and Chynoweth D.P., "Dynamic Model for Conventionally Mixed Anaerobic Digestion Reactors", AIChE Annual Meeting, Paper 277c, Los Angeles, (1991)

284. Pullamannappallil P. Svoronos S.A., Lyberatos G., "Optimal Response of Anaerobic Digesters to Inhibitors Entering with the Feed", ACC Proceedings, Boston, (1991)

285. Pullamannappallil P., Svoronos S., Lyberatos G. and Chynoweth D.P., "Stable Performance of Anaerobic Digestion in the Presence of High Concentrations of Propionic Acid", presented at the IAWQ:AD-94, South Africa, Jan. (1994) .

286. Pullamannappallil P., Svoronos, S.A., Lyberatos G. , Chynoweth D.P., "An Expert System for the Control of Anaerobic Digesters", Proc. ACC, Chicago, II, (1992)

287. Rodin J.B., Stalhandske C., Svoronos S.A. and Lyberatos G., "Periodic Optimization of d-Lactate Production by a Mutant E.Coli", 1992 AIChE Annual Meeting, Miami Beach, Fl., (1992)

288. Rodin, J.B., Lyberatos, G., Svoronos, S.A., "Modelling the Difference Between Biomass and Cell Number Growth Rate," Microfiche of the 1990 AIChE Annual Meeting, Chicago, II, (1990)

289. Rokizas, S.; Kora, E.; Kalogirou, T.; Antonopoulou, G.; Ntaikou, I.; Lyberatos, G., "Acclimation of microbial consortia on acidogenic effluents for enhanced production of polyhydroxyalkanoates", (awarded), 18th International Conference of Environmental Science and Technology, Athen, Greece, August 30th - September 2nd (2023)

290. Rouvalis A., Iliopoulou-Georgudaki J., Lyberatos G., "Acute toxicity Evaluation of Olive Mill Wastewaters by Biotests", International Symposium on the Olive Tree and the Environment, Chania, Greece, October 1-3, (2003)

291. Savoglidis G., C. Kravaris and G. Lyberatos, «*A Robust Model-Based Control Policy Applied on a Glucose-Fed CSTR-Type Anaerobic Digester*», European Conference of Chemical Engineering 7, Prague, Aug.(2010)
292. Savoglidis G., Lyberatos G. and Kravaris C., «*Model based monitoring and control of a CSTR-type anaerobic digester*», AIChE National meeting, Philadelphia Pa,, (2008)
293. Savoglidis G., Kravaris C., Stamatelatos K., Lyberatos G., «*A model based nonlinear observer for simultaneous state and disturbance estimation in continuous anaerobic digesters*», European Congress of Chemical Engineering (ECCE-6), Copenhagen, 16-20 September (2007)
294. Schmidt J. E., Angelidaki I., Christensen N., Batstone D.J., Lyberatos G., Stamatelatos K., Lichtfouse E., Elbisser B., Rogers K., Sappin-Didier V., Denaix L., Caria G., Metzger L., Borghi V. and Montcada E., «*Bioprocessing of sewage sludge for safe recycling on agricultural land – BIOWASTE*», BIOSOLIDS 2003: Wastewater sludge as a resource, Trondheim, Norway 23-25 June, (2003)
295. Schmidt J.S, Christensen N., Angelidaki I. Batstone D. J., Trably E., Lyberatos G., Stamatelatos K., Kornaros M,, Metzger L., Ameal N., Watson J. , Garcia K., Ayuso S. and Patureau D., «*Safe Recycling of Sewage Sludge on Agricultural Land Biowaste*», Proc. WasteEng 2005, Albi, France, (2005)
296. Senkevich S., Ntaikou I. and Lyberatos G, «*Bioethanol production from thermochemically pretreated olive mill solid residues using the yeast *Pachysolen tannophilus**», 12th International Conference on the Environmental Science and Technology (CEST2011), Rhodes, Sep. (2011)
297. Senkevich S., Ntaikou I. and G. Lyberatos, «*Effect of thermochemical pretreatment and enzymatic hydrolysis on the saccharification of lignocellulosic olive oil mill residues*», International Sakcharov Environmental University, Minsk, Belarus, May (2010)
298. Senkevich S.1,2, Padsadnik K.3, Ntaikou I.2,4 and Lyberatos G., «*Comparative ethanol production from solid olive mill residues after pretreatment with dilute acid and lime*», International Sakcharov Environmental University, Minsk, Belarus, May (2009)
299. Shehu J., Shehu A., Marazioti C. and G.Lyberatos, «*Pollution level in Surface waters in Albania*», Balkans Regional Young Water Professionals Conference, Belgrade, Serbia, April 29-30 (2010)
300. Skiadas I and G.Lyberatos, «*Assessment of the Performance and Stability Characteristics of the Periodic Anaerobic Baffled Reactor (PABR)*», Proc.9th World Congress Anaerobic Digestion 2001, Antwerpen, Belgium, Part 1, pp.811-816, Sep. (2001)
301. Skiadas I.V., Ahring B.K. and Lyberatos G., «*Comparison of the Periodic Anaerobic Baffled Reactor with the Upflow Anaerobic Sludge Blanket Reactor for the Treatment of Municipal Wastewater*», Proceedings 10th World Congress on Anaerobic Digestion, Montreal Aug.29-Sep.1, (2004)
302. Skiadas I.V., Gavala H.N., Lyberatos G., Pistikopoulos E., Ciavatta C., Ahring B.K. «*Integrated Biological Treatment and Agricultural Reuse of Olive Mill Effluents with the Concurrent Recovery of Energy Sources (BIOTROLL)*», Proceedings 10th World Congress on Anaerobic Digestion, Montreal Aug.29-Sep.1, (2004)

303. Skiadas, I.V. and Lyberatos G., «*The Periodic Anaerobic Baffled Reactor: A novel Design for Anaerobic Digesters*», v.3, Proc. 8th International Conference on Anaerobic Digestion (AD-97), Sendai, Japan, (1997)
304. Soto Beobide A., I. Apostolopoulos, G. Bampos, S. Bebelis, G. Voyiatzis, G. Antonopoulou, G. Lyberatos, “*Using carbon nanotubes based electrode in a two-chamber Microbial Electrolysis Cell for hydrogen production: comparison with conventional anode materials*”, Nanotechnology Conference, 4-11 July 2020, Thessaloniki, Greece 2020 Voyiatzis G., (2020)
305. Stamatelatou K, K. Dravillas and G. Lyberatos, “*A two-stage process for the anaerobic digestion of sludge generated during the Production of Bioethanol from Sweet Sorghum*”, BIOSOLIDS 2003: Wastewater sludge as a resource, Trondheim, Norway 23-25 June, (2003)
306. Stamatelatou K, K. Dravillas and G. Lyberatos, “*Methane production from sweet sorghum residues via a two-stage process*”, 3rd IWA International Symposium on "Anaerobic Digestion of Solid Waste" Garching/Munich, Germany, 11-13 September (2002)
307. Stamatelatou K., C.Dravillas, and G. Lyberatos, “*A novel two-stage bioreactor system for the production of biogas from a bioethanol process sludge*”, Ninth International Waste Management and Landfill Symposium, Sardinia, October 6 - 10, (2003)
308. Stamatelatou K., Frouda C., Fountoulakis M.S., Drillia P., Kornaros M. and Lyberatos G. “*Pharmaceuticals and health care products in wastewater effluents: the example of carbamazepine*”, proceedings of IWA Regional Symposium on Water Recycling in Mediterranean Region, Iraklio, Crete, 26-29 September 2002, 203-210, (2002).
309. Stamatelatou K., G. Antonopoulou, A. Tremouli and G. Lyberatos, “*Production of gaseous biofuels and electricity from cheese whey*”, New Frontiers in Chemical and Biochemical Engineering, Thessaloniki, 26-27 Nov.(2009)
310. Stamatelatou K., Kopsahelis A., Blikaa P., and G. Lyberatos, “*Anaerobic digestion of olive mill wastewater in a periodic anaerobic baffled reactor (PABR)*”, European Bioremediation Conference, Chania, Crete, Sep.(2008)
311. Stamatelatou K., S.N. Dokianakis, M. Fountoulakis, C. Frouda, M.E. Kornaros and G. Lyberatos «*The effect of a common antibacterial pharmaceutical (triclosan) on biological wastewater treatment processes*», 8th Conference on Environmental Science and Technology, Lemnos – Greece, 8-10 September (2003)
312. Stamatelatou K., S.N. Dokianakis, M. Fountoulakis, K. Frouda, M.E. Kornaros and G. Lyberatos “*On the effect of pharmaceuticals on biological processes*”, ENVIRPHARMA, European conference on human and veterinary pharmaceuticals in the Environment in Lyon, FRANCE, 14-16 April (2003)
313. Stamatelatou, K. and G.Lyberatos, “*Simulation of a Periodic Anaerobic Baffled Reactor (PABR): Steady-state and Dynamic Response*”, Proc.9th World Congress Anaerobic Digestion 2001, Antwerpen, Belgium, Part 1, pp.129-134, Sep. (2001)
314. Stephens, M.L., Lyberatos, G., "Effect of Time Delay on Stability of Recombinant Microorganisms," 196th ACS National Meeting, Los Angeles, CA, Sept. (1988)
315. Stergiopoulou E. , Fouskakis G. , Alexandropoulou M. , Antonopoulou G. , Ntaikou I. and Lyberatos G., “*Production of PHAs with enhanced properties from sugar-based wastewater in a two stage process*”, INTERNATIONAL SYMPOSIUM ON

- CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS, ISCW2019, 29th-31st August 2019, Patras, Greece, (2019)
316. Svoronos, S.A, Lyberatos, G., "On the Theoretical Justification of Adaptive Optimization," Proc. ACC, Minneapolis, MN, pp. 2045-2049, (1987)
317. Svoronos, S.A. and Lyberatos, G., "Eigenvalue Based Discretization of Sampled Data Systems" AIChE Annual Meeting, Chicago, IL (1990)
318. Syrou L., Stamatelatou K., Lyberatos G. and Kravaris C., "Model Reduction for the Anaerobic Digestion of Solid Wastes", Proc.WasteEng 2005, Albi, France, (2005)
319. Tasoulis, E.; Bampos, G.; Bebelis, S.; Lyberatos, G.; Antonopoulou, G. "Bioelectrochemical hydrogen production using cheese whey as electrons donor", 9th International Conference on Engineering for Waste and Biomass Valorisation (WasteEng2022), Copenhagen, Denmark, June 27-30, (2022)
320. Theocharis M., Pavlopoulos C., Kousi P., Hatzikioseyan A., Papadopoulou K., Tremouli A., Kavouri S., Tsakiridis P.E., Remoundaki E., Zoumpoulakis L. and G. Lyberatos., "An integrated thermal and hydrometallurgical process for the recovery of Silicon and Silver from end-of-life crystalline Si photovoltaic panels", 8th International Conference on Sustainable Solid Waste Management, Thessaloniki, Greece, 23 - 26 June (2021)
321. Tremouli A., Kamperidis T., Pandis P. K., Stathopoulos V. N., Ieropoulos I., Argirusis C., G. Lyberatos , "The effect of catalysts MnO₂, biochar, activated carbon and fly ash on the performance of single chamber Microbial Fuel Cells", 17th International Conference on Environmental Science and Technology, 1-4 September 2021, Athens, Greece, (2021)
322. A. Tremouli, P. K. Pandis, T. Kamperidis, V. N. Stathopoulos, C. Argirusis, G. Lyberatos, "Microbial fuel cells for fermentable household waste extract treatment and bioenergy production in individual and stack configurations ." 9th International Workshop on Advances in Cleaner Production. Towards Sustainable Energy-Water Food Nexus: The Contribution of Cleaner Production", (2020)
323. Tremouli A., P. K. Pandis, T. Kamperidis, V. N. Stathopoulos, C. Argirusis, I. Ieropoulos, G. Lyberatos, "Construction and size optimization of microbial fuel cells for wastewater treatment.", International Conference "Protection and Restoration of the Environment XV", Greece, 2020, (2020)
324. Tremouli A., T. Kamperidis, P.K. Pandis, K. Papadopoulou, G.M. Lytras, Christos Argirusis and G. Lyberatos, "Performance assessment of MFC units fed with digestate", European Fuel Cell (EFC19), Naples, Italy, 9-11 December, (2019)
325. Tremouli A., P. K. Pandis, T. Kamperidis, V.N. Stathopoulos, Ch. Argirusis, G.Lyberatos, "Performance assessment of a four-air-cathode membraneless microbial fuel cell stack for wastewater treatment and energy extraction", 2nd International conference on advances in energy systems and environmental engineering (ASEE), June 9-12, 2019, Poland, (2019)
326. Tremouli A., Pandis P.K., Kamperidis T., Stathopoulos V.N., Argirusis C., Lyberatos G., "Performance assessment of a four-air cathode membraneless microbial fuel cell stack for wastewater treatment and energy extraction",116,24,2019 International Conference on Advances in Energy Systems and Environmental Engineering, ASEE 2019; Wroclaw; Poland;, 2019
327. Tremouli A., I. Karydogiannis, P. Pandis, K. Papadopoulou, C. Argirusis, V. N. Stathopoulos, G. Lyberatos, "Bioelectricity production from fermentable household

- waste extract using a single chamber microbial fuel cell", 2nd International Conference on Sustainable Energy and Resource Use in Food Chains, ICSEF2018, (2018)
328. Tremouli A., I. Karydogiannis, K. Papadopoulou, G. Lyberatos, "Stacking of Microbial Fuel Cells for Wastewater Treatment", 6th International Conference on Sustainable Solid Waste Management, Naxos Island, Greece, 13–16 June 2018, (2018)
329. Tremouli A. I., Nikiforaki Z. N., Diakatou E., Lyberatos G. K., "Wastewater treatment using a novel single-chamber membrane-less microbial fuel cell", 13th World Congress on Anaerobic Digestion, Santiago de Compostela, Spain, June 25-28, (2013)
330. Tremouli A. and Lyberatos G., "Synthetic and domestic wastewater treatment using a dual chamber microbial fuel cell", 4th International Conference on Engineering for Waste Valorization, Porto, Portugal, September 10-13, (2012)
331. Tremouli A., Nikiforaki Z., Diakatou E., Lyberatos G., "Bioelectricity Production from Domestic Wastewater Treatment in Dual Chambered Microbial Fuel Cell: Effect of Wastewater Composition in Terms of Carbohydrate, Protein and Lipid Content", European International Society for Microbial Electrochemistry and Technology Meeting, Louvaine, September (2012)
332. Tsakarestos, I, and Lyberatos G., "The Strategic Planning of the Waste Management System on a Regional Case", Mediterranean Scientific Association of Environmental Protection", 10th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Alicante, Spain, October 2-6, (1999)
333. Tseronis K.T., Kookos I.K., Kornaros M. and Lyberatos G., Optimum siting of a MSW treatment plant combined with a landfill for residues and optimum routing for wastes and residues transportation based on Mixed Integer Linear Programming (MILP) and GIS methodology, 1st 1st CEMEPE Conference, Skiathos, June (2008)
334. Tsiligiannis A., Antonopolou G., Ntaikou I., Alexandropoulou M., Bampos G., Charalampous N., Dailianis S., Bebelis S., and G. Lyberatos, "Olive mill wastewater treatment in a microbial fuel cell: Electrochemical and biochemical characterisation and toxicity assessment.", 7th International conference on industrial and hazardous waste management, 27 – 30 July, 2021, Crete, Greece, (2021)
335. Tsiligiannis, C.A., Lyberatos, G., "Steady-State Multiplicity of Chemically Reacting Systems via the Carleman Linearization," Microfiche of the AIChE Annual Meeting, Miami Beach, FL, paper 15b, (1986)
336. Tsiligiannis, C.A., M. Kornaros and G. Lyberatos, "Comparison of Alternate Solid Waste Management Schemes for the Athens Metropolitan Area", II International Symposium on Anaerobic Digestion of Solid Waste, (II ISAD-SW), Barcelona, Spain, June, (1999)
337. Tsiliyannis C., Kavadas C., Kornaros M. and Lyberatos G. "Comparative assessment of solid waste treatment and disposal technologies and sites for Attica", Proceedings of the 5th Conference on Environmental Science and Technology, Molyvos, Lesvos, Greece, vol. A, 138-1451-4 September (1997)
338. Tsiliyannis C., Kornaros M. and Lyberatos G. "MSW Landfills in Greece", Symposium on Swedish Landfill Research, 15-18 January (1996)
339. Tzitzis, M., Vayenas, D.V. and Lyberatos, G., "Pretreatment of Textile Industry Wastewaters with Ozone", Proc. IAWQ Conference on Pre-treatment of Industrial Wastewaters, Athens, pp.228-237, Oct.(1993)

340. Tzivelou EE, Kefi O, Pavlopoulos Ch, Klontza E, Papadopoulou K, Lekkas D-F, Lyberatos G, "Carbon dioxide sequestration and microalgae biomass production using cheese whey", IEES 2023, "Closed cycles and the Circular Society 2023: The power of ecological engineering" of the International Ecological Engineering Society (IEES). October 1st – 5th, 2023 in Platanias – Chania, (2023)
341. 13. Valta K., Malamis D., Sotiropoulos A., Kosanovic T., Antonopoulou G., Alexandropoulou M., Jonuzay S., Lyberatos G., Loizidou M., "Assessment of the Effect of Drying Temperature and Composition on the Biochemical Methane Potential of Inhouse Dried Household Food Waste", IWA Regional Conference on Waste and Wastewater Management, Science and Technology, Lemesos, Cyprus, 26 – 28 June (2013)
342. Valta, K., Sotiropoulos, A., Katsou, E., Antonopoulou, G., Alexandropoulou, M., Lyberatos, G., Loizidou, M., "Biochemical Methane Potential of Kitchen Waste Dried at Source", International Conference on Sustainable Solid Waste Management, Athens, Greece, 28-29 June (2012)
343. Valta K., Alexandropoulou M., Antonopoulou G., Drosou V., Panaretou V., Novakovits J., Loizidou M. and Lyberatos G., « Assessment of Household Food Wastes as potential source for energy generation», 3rd International Conference on Sustainable Solid Waste Management, Tinos Island, Greece, 2-4 July (2015)
344. Vavilin, V.A., Rytov, S.V., Lokshina, L.Ya., Rintala, J.A. and Lyberatos G., "Simplified models for the Optimal Design of Two-Stage Anaerobic Digestion", 1st World Water Congress of the IWA, Paris, (2000)
345. Vayenas, D.V., Lyberatos, G., "A study of Pilot Scale Trickling Filter for the Biological Oxidation of Ammonia in Potable Water", Proc., 3rd Conf. on Environmental Science and Technology, Univ. of the Aegean, pp.52-62, (1993)
346. Venetsaneas N., Antonopoulou G., Stamatelatos K., Kornaros M., Lyberatos G. "Production of hydrogen and methane from dairy wastewater in a two-stage anaerobic process". 2nd International Conference on Engineering for Waste Valorization, Patras, Greece, (2008).
347. Vlachos P., A. Kampioti, M. Kornaros and G. Lyberatos "Trace analysis of 2,4,6-trichloroanisole in wine, cork stoppers and cork barks using Headspace Solid Phase MicroExtraction followed by GC/ECD", Conference Off-flavours: :musty taste in wine and other beverages, Tarragona Spain, Nov.(2005)
348. Vlachos P., A. Kampioti, M. Kornaros and G. Lyberatos, "Development of alternative processes for the sterilization and deodorization of cork stoppers", Conference Off-flavours: :musty taste in wine and other beverages, Tarragona Spain, Nov.(2005)
349. Vlachos P., A. Kampioti, M. Kornaros and G. Lyberatos, "Development of alternative processes for the sterilization and deodorization of cork brks and natural cork stoppers", 2nd International Congress on Bioprocesses in Food Industries, Patras, Greece, 18-21 June (2006)
350. Vlachos P., A. Kampioti, M. Kornaros and G. Lyberatos, "Evaluation and development of rapid method using headspace solid phase microextraction followed by GC/ECD for the analysis of 2,4,6-trichloroanisole in wine and cork samples", The 4th International Conference on Instrumental Methods of Analysis, Modern Trends and Applications, 2 - 6 October 2005, Iraklion Crete, GREECE

351. Vlassis T, Stamatelatou, K., Antonopoulou G. Lyberatos G., *"Anaerobic treatment of glycerol for methane and hydrogen production"*, 12th International Conference on the Environmental Science and Technology (CEST2011), Rhodes, Sep. (2011)
352. Vlassis T., G. Antonopoulou and G. Lyberatos, *"Biological hydrogen production via fermentation of glycerol"* PRE X, Protection and Restoration of the environment X, Corfu, Greece, July 4-9 (2010)
353. Vlassis T., Stamatelatou K., Antonopoulou G., Marazioti K. and G. Lyberatos, *"Methane production via anaerobic digestion of glycerol"*, 3rd International Conference on Engineering for Waste and Biomass Valorisation– Beijing, China, May 17-19 (2010)
354. Yannopoulos S. I., Lyberatos G., Angelakis A. N., and Theodossiou N. *"Water Pumps through the Ages"*, IWA Regional Symposium on Water, Wastewater and Environment: Tradition and Culture. 22-24 March 2014, Patras, Greece. (2014)
355. Zafiri C., Kornaros M., and Lyberatos G. *"Effect of anaerobic/aerobic fraction on the phosphate and carbon removal efficiency of a biological phosphorus removing SBR system"*, IAWQ 18th Biennial International Conference, Singapore, 23-28 June (1996)
356. Zafiri, C., Kornaros, M. and Lyberatos G., *Biological Phosphorus removal using a pure culture of Acinetobacter sp.*, Proc.4th Conference on Environmental Science and Technology, University of the Aegean,(1995)
357. Zarkaliou A., Prifti E., Kokkas T., Papadopoulou K., Lyberatos G. *"Development of an innovative scheme for the simultaneous treatment of municipal wastewater and the condensate from drying food waste"*, 18th International Conference of Environmental Science and Technology, Athen, Greece, August 30th - September 2nd (2023).
358. Zarkaliou A., Papadopoulou K., Mokou A., Kiouki E., Lyberatos G., *"Development of a novel concept for integrated management of municipal wastewater and biowaste"*, 9th International Conference on Engineering for Waste and Biomass Valorisation WasteEng2022, Copenhagen (Denmark), June 27-30, (2022)
359. Zarkaliou A., Kougias C., Papadopoulou K., Lyberatos, *"Anaerobic Digestion of Municipal Wastewater (MWW) in a Periodic Anaerobic Baffled Reactor (PABR)"*, 17th International Conference on Environmental Science and Technology, 1-4 September 2021, Athens, Greece.
360. Zissi, U. and Lyberatos G., *"Biodegradation of Dyes Using Pure Cultures"*, Proc.4th Conference on Environmental Science and Technology, University of the Aegean,(1995)
361. Zissi, U. and Lyberatos, G., *"Azo-dye Biodegradation under anoxic conditions"*, IAWQ 18th Biennial International Conference, Singapore, 23-28 June (1996)

Γ2. Ελληνικά

- Alexandropoulou M., Antonopoulou G., Lyberatos G., *«Biofuels' production from food industry wastes»*, 1st Workshop of Graduates and Post-Docs , ICE-HT, Patras, May 17th (2015)

2. Antonopoulou G., D. Vayenas and G. Lyberatos, *“Grass lawn as a feedstock for second generation biofuels”*, 8 συνέδριο Μικροβιόκοσμος, (2019)
3. Antonopoulou G., Vayenas D., Lyberatos G., *«Pretreatment of different lignocellulosic feedstocks for second generation biofuels production»*, 1st Workshop of Graduates and Post-Docs , ICE-HT, Patras, May 17th (2015)
4. Antonopoulou G., Ntaikou I. and G.Lyberatos, *“Using sweet sorghum biomass as a source of bioenergy”*, Mikrobiokosmos, Athens, Dec.(2008)
5. Dounavis A., Ntaikou I., Lyberatos G., *«Hydrogen and methane Production from waste glycerol»*, 1st Workshop of Graduates and Post-Docs , ICE-HT, Patras, May 17th (2015)
6. Filipou, K.; Bourcha, P.; Zarkaliou, A.; Papadopoulou, K.; Lyberatos, G. *“Cotreatment of the liquid fraction of Food Waste with landfill leachate in a CSTR for the production of Gaseous Biofuels”*, 13th Panhellenic Scientific Conference in Chemical Engineering; Patras ; Greece, June 2-4 (2022)
7. Gargala, Z.; Bambos, G.; Bebelis, S.; Lyberatos, G.; Antonopoulou, G. *“Impact of operational Parameters on the Bioelectrochemical Production of Hydrogen via Microbial Electrolysis Cells”*, 13th Panhellenic Scientific Conference in Chemical Engineering; Patras ; Greece, June 2-4 (2022)
8. Kornaros M., Zafiri C., and Lyberatos G. *“Removal of nutrient compounds from wastewaters”*, Conference on Environment - Sustainable Development - Culture, University of Patras, Patras, 27-29 November (1996)
9. Lyberatos G., *“Source recycling and biowaste valorization in the unicipality of Halandri”*, 7th Environmental Conderence of Macedonia, Greek Chemist Society, (2020)
10. Lyberatos G., *“Biological Methods of Waste Treatment”*, Conference on Methods of Treatment, inertisation and characterisation of industrial solid wastes”, Thessaloniki, Greece, Sep.10, (2004)
11. Lyberatos G., *“Biological Processes for Liquid and Solid waste Management”*, Conference on Environmental Education and Research, Agrinio, Greece, June 27, (2003)
12. Lyberatos G., *“Technologies and Alternative Scenaria for the Integrated Solid Waste Management in Western Greece: Perspectives for Achaia”*, Conference on Integrated Solid Waste Management in Western Greece, U. of Patras and Technical Chamber of Greece, May 29,(2002)
13. Lyberatos G., *“Alternative treatment methods of olive mill wastewaters for the production of energy and biofuels”*, 2nd Panhellenic Symposium on Green Chemistry and Sustainable Development
14. Lyberatos G., *“Νέες Τάσεις της Βιοτεχνολογίας”*, Εθνικό Ίδρυμα Ερευνών, 8/1/(2008)
15. Lyberatos, G., Stamatelatu K. and C. Dravillas, *“A system for combined hydrolysis and anaerobic digestion of sweet sorghum for the production of biogas”*, Proc. 19th Panhellenic Chemistry Conference, Herakleion, Crete, November 6-10, (2002)
16. Lytras C., Seintis G., Voukoutis C., Platania S., Lyberatos G., *«Optimization of biogas production through anaerobic digestion using Periodic Anaerobic Baffled Reactor (PABR)»*, 1st Workshop of Graduates and Post-Docs , ICE-HT, Patras, May 17th (2015)
17. Lytras G., Dimopoulos N., Argyropoulou D., Ntaikou I., Lyberatos G., *A novel Two Phase Bioreactor for microbial Cr(VI) removal from wastewaters*, 1st Workshop of Graduates and Post-Docs , ICE-HT, Patras, May 17th (2015)

18. Ntaikou I , Antonopoulou G., Alexandropoulou M, Vayenas D and Lyberatos G, *“Assessment of electrocoagulation as a pretreatment method of olive mill wastewaters for biofuels production”*, 9 συνέδριο Μικροβιόκοσμος, (2019)
19. Pavlopoulos, C.; Papadopoulou, K.; Lyberatis, G. *“Management of End-of-Life photovoltaic cellsQ investigation of possible uses”* , 13th Panhellenic Scientific Conference in Chemical Engineering; Patras ; Greece, June 2-4 (2022)
20. Senkevich S., Antonopoulou G., Ntaikou I. and Lyberatos G, *“Biofuels production from lignocellulosic wastes via fermentative processes: effect of thermochemical pretreatment on the enzymatic hydrolysis and the yields of final products”*, 3rd National MikroBiokosmos (MBK) Conference, Thessaloniki, Greece
21. Siankevich S., I. Ντάικου και Γ. Λυμπεράτος, *“Επίδραση της θερμοχημικής προεπεξεργασίας στην σακχαροποίηση λιγνοκυτταρινούχων στερέων υπολειμμάτων ελαιοτριβείων τριών φάσεων”*, 8^ο Πανελλήνιο επιστημονικό Συνέδριο Χημικής Μηχανικής, Θεσσαλονίκη (2011)
22. Stamatelatou K., S.Dokianakis, P.Drillia, M.Fountoulakis, C.Frounda, M.Kornaros and G.Lyberatos, *“The path of pharmaceuticals until disposal to the Environment: the example of ofloxacin”*, 4th Panhellenic Chemical Engineering Conference, Proc.p.p. 1045-1048, Patras, May 29-31, (2003)
23. Tsakarestos I. and G.Lyberatos, *“Life cycle Analysis as a tool for Environmental Management and Decision Making for the Management of Municipal Solid Wastes”*, Conference on Integrated Solid Waste Management in Western Greece, U.of Patras and Technical Chamber of Greece, May 29, (2002)
24. Zafiri C., Koutsikopoulos C., Kornaros M., Fragopoulou N., Lykakis I. And Lyberatos G., *«Structure and Scales of Variability of the Hydrology and Biological Characteristics of the Lagoon of Koutavos (Kefalonia, Greece), Proceedings of the 5th Panhellenic Symposium of Oceanography and Fishing, v.2, p.305-308,(1997)*
25. Zarkaliou, A.; Papadopoulou, K.; Lyberatos, G., *“Development of a novel approach for the integrated management of municipal wastewater and biowaste”* ,13th Panhellenic Scientific Conference in Chemical Engineering; Patras ; Greece, June 2-4 (2022)
26. Μ. Αλεξανδροπούλου, Γ. Αντωνοπούλου, Ι. Ντάικου και Γ. Λυμπεράτος, *«Χρήση των μυκήτων λευκής σήψης Leiotrametes menziesii και Abortiporus biennis για τη βιολογική επεξεργασία ξύλου ιτιάς με σκοπό την παραγωγή βιοκαυσίμων»*, 6ο Συνέδριο της Επιστημονικής Εταιρίας ΜΙΚΡΟΒΙΟΚΟΣΜΟΣ. Αθήνα, 3-5 Απρίλη (2015)
27. Αλεξανδροπούλου, Μ., Αντωνοπούλου, Γ., Λυμπεράτος, Γ., *“Ζυμωτική παραγωγή υδρογόνου και αναερόβια παραγωγή μεθανίου από τα στερεά απόβλητα της βιομηχανίας τροφίμων”*, 4ο Διεθνές συνέδριο της ΕΕΔΣΑ. Αθήνα, 30 Νοέμβρη- 1 Δεκέμβρη (2012)
28. Αλεξανδροπούλου, Μ., Αντωνοπούλου, Γ., Λυμπεράτος, Γ, *“Παραγωγή βιοκαυσίμων από απόβλητα βιομηχανίας τροφίμων”*, 5ο Συνέδριο της Επιστημονικής Εταιρίας ΜΙΚΡΟΒΙΟΚΟΣΜΟΣ, Αθήνα 14-16 Δεκεμβρίου (2012)
29. Αλεξανδροπούλου Μ., Αντωνοπούλου Γ., Λυμπεράτος Γ., *«Συνεχής διεργασία παραγωγής υδρογόνου και μεθανίου από τα στερεά απόβλητα βιομηχανίας τροφίμων»*, 9ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Αθήνα 23-25 Μαΐου, (2013)
30. Αντωνοπούλου Γ., Δημητρέλλος Γ., Λυμπεράτος Γ., *«Επίδραση της όξινης προεπεξεργασίας στην παραγωγή βιοϋδρογόνου και βιοαιθανόλης από*

λιγνοκυτταρινούχα βιομάζα», 10th Panhellenic Scientific Conference in Chemical Engineering, Patras, Greece, June 4-6 (2015)

31. Αντωνοπούλου Γ, Λυμπεράτος Γ. "Παραγωγή υδρογόνου και βιοαερίου από βιομάζα και απόβλητα". 1ο Μεσογειακό Συμπόσιο «Νέες Τεχνολογίες: Τηλεπικοινωνίες & Περιβάλλον», Σαντορίνη, (2008)

32. Αντωνοπούλου Γ. και Λυμπεράτος Γ., «Επίδραση της ενζυμικής επεξεργασίας στην παραγωγή βιο-υδρογόνου και μεθανίου από το γλυκό σόργο», Μικροβιόκοσμος 2011, Ιωάννινα (2011)

33. Αντωνοπούλου Γ., Ι. Ντάικου, Χ.Ν. Γαβαλά, Ι.Β. Σκιαδάς, Κ. Αγγελόπουλος, Γ. Λυμπεράτος, "Παραγωγή βιοϋδρογόνου από βιομάζα γλυκού σόργου μέσω μικτών οξεογόνων καλλιιεργειών και καθαρών καλλιιεργειών του βακτηρίου *Ruminococcus albus*", 2ο Πανελλήνιο Συνέδριο Εναλλακτικών Καυσίμων και Βιοκαυσίμων, Λίμνη Πλαστήρα, Απρίλιος 2007

34. Αντωνοπούλου Γ., Κάλφας Χ., Κουτρούλη Ε.Χ., Γαβαλά Χ.Ν., Σκιαδάς Ι.Β. και Λυμπεράτος Γ., «Συνδυασμένη Βιολογική Παραγωγή Υδρογόνου και Μεθανίου από Βιομάζα», 5^ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Θεσ/νίκη, Μάιος (2005)

35. Αντωνοπούλου Γ., Γιουζαί Σ., Λυμπεράτος Γ., «Επίδραση της υδροθερμικής και της χημικής προεπεξεργασίας στη διαλυτοποίηση των υδατανθράκων του ξύλου λεύκας», Αθήνα 23-25 Μαΐου, (2013)

36. Βλάσσης Θ., Γ.Αντωνοπούλου, Γ.Λυμπεράτος, «Ζυμωτική παραγωγή υδρογόνου από γλυκερόλη», 8^ο Πανελλήνιο επιστημονικό Συνέδριο Χημικής Μηχανικής, Θεσσαλονίκη (2011)

37. Βλάσσης Θ., Κ.Σταματελάτου, Γ.Αντωνοπούλου, Κ.Μαραζιώτη, Γ.Λυμπεράτος, «Παραγωγή μεθανίου μέσω αναερόβιας χώνευσης της γλυκερόλης», 7^ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, ΠΑΤΡΑ, 3-5 ΙΟΥΝΙΟΥ, (2009)

38. Βλάχος Π., Καμπιώτη Α., Κορνάρος Μ. και Λυμπεράτος Γ., «Χρήση Αερίου Όζοντος για την Απολύμανση και την Εξουδετέρωση Επιμολυντικών Οργανικών Ενώσεων σε φυσικούς φελλούς», 5^ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Θεσ/νίκη, Μάιος (2005)

39.

40. Δερμιτζάκης Ι., Κ. Μαραζιώτη, Κ. Κράβαρης, Μ. Κορνάρος και Γ.Λυμπεράτος «Παράκαμψη παραγωγής νιτρικών σε αντιδραστήρα εμβολικής ροής με ανακυκλοφορία για βιολογική απομάκρυνση αζώτου από αστικά λύματα» 2ο Συνέδριο «Εγκαταστάσεις Επεξεργασίας Νερού και Υγρών Αποβλήτων Μικρής Κλίμακας», Σκιάθος. Πρακτικά συνεδρίου σελ. 151-156, 2-4 Μαΐου (2008)

41. Δούναβης Α., Ντάικου Ι., Λυμπεράτος Γ., «Διβάθμιο σύστημα παραγωγής μεθανίου και υδρογόνου από βιομηχανική γλυκερόλη», 10th Panhellenic Scientific Conference in Chemical Engineering, Patras, Greece, June 4-6 (2015)

42. Δούναβης Α., Ντάικου Ι., Λυμπεράτος Γ., «Επίδραση της συγκέντρωσης υποστρώματος κατά την παραγωγή βιοϋδρογόνου από βιομηχανική γλυκερόλη με ακινητοποιημένους μικροοργανισμούς», Αθήνα 23-25 Μαΐου, (2013)

43. Δούναβης Α., Γ. Σαβογλίδης, Κ. Κράβαρης και Γ. Λυμπεράτος «Αυτόματη ρύθμιση αναερόβιου χωνευτήρα τύπου CSTR τροφοδοτούμενου με οξικό οξύ», 8^ο Πανελλήνιο επιστημονικό Συνέδριο Χημικής Μηχανικής, Θεσσαλονίκη (2011)

44. Ζαρκαλίου, Κ. Παπαδοπούλου, Γ. Λυμπεράτος, "Ολοκληρωμένη διαχείριση των βιοαποβλήτων και αστικών υγρών αποβλήτων για παραγωγή βιοαερίου",

ΕΛΛΗΝΙΚΗ ΕΤΑΙΡΕΙΑ ΔΙΑΧΕΙΡΙΣΗΣ ΣΤΕΡΕΩΝ ΑΠΟΒΛΗΤΩΝ σε συνεργασία με την International Solid Waste Association (ISWA), «Επιτάχυνση της Μετάβασης στην Κυκλική Οικονομία - Ευκαιρίες & Κίνδυνοι», Αθήνα 28—29 Σεπτεμβρίου, (2022)

45. Καμπράνης Α., Α.Πιστική, Α.Κούβελας, Α.Θεοδωρακοπούλου, Γ.Λυμπεράτος, Κ.Αγγελόπουλος, «Βιολογική Καλλιέργεια γλυκού σόργου για την παραγωγή βιομάζας – η επίδραση της έλλειψης νερού άρδευσης στις αποδόσεις» 2ο Πανελλήνιο Συνέδριο Εναλλακτικών Καυσίμων και Βιοκαυσίμων, Λίμνη Πλαστήρα, Απρίλιος (2007)

46. Κουμέλης Ι., Ντάικου Ι., Λυμπεράτος Γ., «Παραγωγή βιοαποδομήσιμων πλαστικών από συνθετικά υποστρώματα και βιομηχανική γλυκερόλη μέσω μικτών μικροβιακών καλλιεργειών», Αθήνα 23-25 Μαΐου, (2013)

47. Κουμέλης Ι., Δούναβης Α., Ντάικου Ι., Λυμπεράτος Γ., «Συνδυαστική παραγωγή βιοϋδρογόνου και πολυ-υδροξυαλκανοϊκών εστέρων από βιομηχανική γλυκερόλη», 5ο Συνέδριο της Επιστημονικής Εταιρίας Mikrobiokosmos, Αθήνα 14-16 Δεκεμβρίου (2012)

48. Κουμέλης Ι., Ντάικου Ι., Ιατρίδη Ζ., Τσιτσιλιάνης Κ., Λυμπεράτος Γ., «Polyhydroxyalkanoates (PHAs) production from mixed microbial cultures derived from soil: effect of nitrogen on final yields and properties», National conference on Polymers, Thessaloniki (2012)

49. Λυμπεράτος Γ., «Κομποστοποίηση και Αναερόβια Χώνευση Αγροβιομηχανικών Αποβλήτων», Συνέδριο με θέμα «Κομποστοποίηση και Εναλλακτική Διαχείριση Αποβλήτων στη Τοπική Αυτοδιοίκηση», Αθήνα, 26-28 Νοεμβρίου (2014)

50. Λυμπεράτος Γ., «Αναερόβια χώνευση – Κομποστοποίηση: Απαραίτητος συνδυασμός για ολοκληρωμένη ενεργειακή αξιοποίηση οργανικών αποβλήτων», στην ημερίδα «ΕΝΕΡΓΕΙΑ από ΒΙΟΜΑΖΑ: Ενέργεια από αγροτικά υπολείμματα και αγροτοβιομηχανικά απόβλητα», Μ.Ε.Σ. Expo Center, Παιανία, 6 Οκτωβρίου 2013

51. Λυμπεράτος Γ., Ντάικου Ι. και Αντωνοπούλου Γ., “Η δυνατότητα παραγωγής βιοϋδρογόνου από απόβλητα και βιομάζα”, “Καινοτόμες μέθοδοι για ολοκληρωμένη αξιοποίηση αποβλήτων από την επεξεργασία αγροτικών προϊόντων”, ΕΚΕΤΑ, Θεσσαλονίκη, 19 – 20 Νοεμβρίου (2013)

52. Λυμπεράτος Γ., Βλυσίδης Α., “Ανάπτυξη ολοκληρωμένης λύσης για την επεξεργασία και αξιοποίηση αποβλήτων ελαιοτριβείων”, “Καινοτόμες μέθοδοι για ολοκληρωμένη αξιοποίηση αποβλήτων από την επεξεργασία αγροτικών προϊόντων”, ΕΚΕΤΑ, Θεσσαλονίκη, 19 – 20 Νοεμβρίου (2013)

53. Λυμπεράτος Γ., «Παραγωγή βιοϋδρογόνου από βιομάζα», ΗΜΕΡΙΔΑ: ΕΝΕΡΓΕΙΑ από ΒΙΟΜΑΖΑ Πρώτες ύλες, Προοπτική, Τεχνολογικές Εφαρμογές, ΠΑΙΑΝΙΑ, 7 Οκτωβρίου (2012)

54. Λυμπεράτος Γ., «Βιοτεχνολογική παραγωγή ενέργειας από βιομάζα», Ημερίδα «Ενέργεια και Περιβάλλον», Παν/μιο Πατρών, 16/12 (2008)

55. Λυμπεράτος Γ., «Ζυμωτική παραγωγή υδρογόνου από βιομάζα και απόβλητα», MicrobeGR Workshop, Αγρίνιο, 15-17 Οκτωβρίου (2009)

56. Λυμπεράτος Γ., Μαραζιώτη Κ., «Περιβαλλοντική Κατάσταση των Λιμνοθαλασσών Αιτωλικού –Μεσολογγίου», Ημερίδα «Η λιμνοθάλασσα του Αιτωλικού και το περιβάλλον της», Αιτωλικό, 11/3 (2007)

57. Λύτρας Χ., Βλάσσης Θ., Μαραζιώτη Κ. και Γ.Λυμπεράτος, «Διεργασία παραγωγής βιοντήζελ από κραμβέλαιο», 8ο Πανελλήνιο επιστημονικό Συνέδριο Χημικής Μηχανικής, Θεσσαλονίκη (2011)

58. Λύτρας Γ.-Μ., Μαλαβέτας Γ., Ντάικου Ι., Παπαδοπούλου Κ., Λυμπεράτος Γ., Λύτρας Χ., «Υλοποιώντας ένα διφασικό βιοαντιδραστήρα για την απομάκρυνση Cr(VI)

από βιομηχανικά απόβλητα», 10th Panhellenic Scientific Conference in Chemical Engineering, Patras, Greece, June 4-6 (2015).

59. Μαραζιώτη Κ., Κορνάρος Μ. και Λυμπεράτος Γ. “Ανάπτυξη μαθηματικού μοντέλου μικτών καλλιιεργειών για την απομάκρυνση του αζώτου σε αντιδραστήρα τύπου SBR”, 4^ο Πανελλήνιο Συνέδριο Χημικής Μηχανικής, Πάτρα, 29-31 Μαΐου 2003, 977-980.

60. Μιχαλόπουλος Ι., Λύτρας Χ., Σεϊντής Γ., Λυμπεράτος Γ., «Υδραυλικά Χαρακτηριστικά και κλιμάκωση μεγέθους περιοδικού αναερόβιου αντιδραστήρα με ανακλαστήρες (PABR)», 10th Panhellenic Scientific Conference in Chemical Engineering, Patras, Greece, June 4-6 (2015)

61. Μπάρκα-Παπαδημητρίου Α., Παπαδοπούλου Κ., Λυμπεράτος Γ., “Αποτροπή Δημιουργίας Τροφικών Αποβλήτων: το παράδειγμα του Δήμου Χαλανδρίου”, 8ο Συνέδριο της ΕΛΛΗΝΙΚΗΣ ΕΤΑΙΡΕΙΑΣ ΔΙΑΧΕΙΡΙΣΗΣ ΣΤΕΡΕΩΝ ΑΠΟΒΛΗΤΩΝ “Κυκλικές Πόλεις & Διαχείριση Στερεών Αποβλήτων – Οι Προκλήσεις για την Κοινωνία, τους Φορείς, την Πολιτεία, Σεπτέμβριος (2024)

62. Μπόνιας Α., Δούναβης Α, Ντάικου Ι., Λυμπεράτος Γ. “Οξίνιση βιομηχανικής γλυκερόλης με ακινητοποιημένα βακτήρια: κατανομή μεταβολικών προϊόντων” 5ο Περιβαλλοντικό Συνέδριο Μακεδονίας, 14-16 Μαρτίου 2014, Θεσσαλονίκη 2014

63. Παπανικόλα Κ., Παπαδοπούλου Κ., Τσιλιγιάννης Χ., Κατσιάμπουλας Α., Χαλαράκης Ε., Γεωργιοπούλου Μ., Μιχαλόπουλος Γ., Λυμπεράτος Γ., “ΕΝΕΡΓΕΙΑΚΗ ΑΞΙΟΠΟΙΗΣΗ ΒΙΟΜΑΖΑΣ ΑΠΟ ΟΙΚΙΑΚΑ ΖΥΜΩΣΙΜΑ ΑΠΟΡΡΙΜΜΑΤΑ ΩΣ ΕΝΑΛΛΑΚΤΙΚΑ ΚΑΥΣΙΜΑ ΣΤΗΝ ΤΣΙΜΕΝΤΟΒΙΟΜΗΧΑΝΙΑ”, 11th Panhellenic Scientific Conference in Chemical Engineering, Thessaloniki, Greece, May 25-27 (2017).

64. Παπαδοπούλου Κ., Λύτρας Χ., Νιάκας Σ., Μελανίτου Ε., Παπανικόλα Κ., Λύτρας Γ., Μιχαλόπουλος Ι., Χατζηκωνσταντίνου Δ., Τρεμούλη Α., Ντάικου Ι., Αντωνοπούλου Γ., Λυμπεράτος Γ. “ΠΑΡΑΓΩΓΗ ΚΑΙ ΑΞΙΟΠΟΙΗΣΗ ΠΡΟΪΟΝΤΟΣ ΒΙΟΜΑΖΑΣ ΑΠΟ ΟΙΚΙΑΚΑ ΖΥΜΩΣΙΜΑ ΑΠΟΒΛΗΤΑ” 11th Panhellenic Scientific Conference in Chemical Engineering, Thessaloniki, Greece, May 25-27 (2017).

65. Παπαδοπούλου Κ., Χ. Λύτρας, Σ. Νιάκας, Ε. Μελανίτου, Κ. Παπανικόλα, Γ. Λύτρας, Ι. Μιχαλόπουλος, Δ. Χατζηκωνσταντίνου, Δ. Μαθιουδάκης, Α. Τρεμούλη, Ι. Ντάικου, Γ. Αντωνοπούλου, Γ. Λυμπεράτος “Παραγωγή και αξιοποίηση προϊόντος βιομάζας από οικιακά ζυμώσιμα απόβλητα στο Δήμο Χαλανδρίου”, 5ο Διεθνές Συνέδριο ΕΕΔΣΑ, «Η Διαχείριση Στερεών Αποβλήτων και η Συμβολή της στην Κυκλική Οικονομία, Αθήνα 14-15 Δεκεμβρίου 2017.

66. Ντάικου Ι. και Λυμπεράτος Γ., «Αξιοποίηση αποβλήτων ελαιοτριβείων μέσω μικροβιακών διεργασιών», Μικροβιόκοσμος 2011, Ιωάννινα (2011)

67. Σαβογλίδης Γ., Γ. Λυμπεράτος, Κ. Σταματελάτου και Κ. Κράβαρης, «Παρακολούθηση και ρύθμιση βάσει μαθηματικού μοντέλου ενός αναερόβιου χωνευτήρα τύπου CSTR», 7^ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Πάτρα, 3-5 Ιουνίου (2009)

68. Σταματελάτου Κ. και Λυμπεράτος Γ., «Μικροβιακές Κυψελίδες Καυσίμων: ο βιολογικός καθαρισμός του μέλλοντος», Ημερίδα ΤΕΕ και ΠΠ «Νέες Τεχνολογίες και Πολίτης», 22/11 (2008)

69. Σταματελάτου Κ., Δοκιανάκης Σ., Δρίλλια Π., Φουντουλάκης Μ., Φρούντα Κ., Κορνάρος Μ. και Γ. Λυμπεράτος «Η πορεία των φαρμακευτικών ουσιών μέχρι την εναπόθεση τους στο περιβάλλον: το παράδειγμα της οφλοξακίνης» 4^ο Πανελλήνιο Συνέδριο Χημικής Μηχανικής, Πάτρα, 1045-1048, 29-31 Μαΐου (2003)

70. Τζιώτζιος Γ., Βαγενάς Δ. Β. και Λυμπεράτος Γ., *“Βιολογική Απομάκρυνση φαινόλης με τη χρήση Χαλικοδιυλιστηρίου»*, 5^ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Θεσ/νίκη, Μάιος (2005)
71. Τρεμούλη Α., Φερτάκη Σ., Αντωνοπούλου Γ. και Γ.Λυμπεράτος, *«Παραγωγή ηλεκτρικού ρεύματος από συνθετικό απόβλητο και αστικό λύμα σε μικροβιακή κυψελίδα καυσίμου»*, 8^ο Πανελλήνιο επιστημονικό Συνέδριο Χημικής Μηχανικής, Θεσσαλονίκη (2011)
72. Φουντουλάκης Μ., Πάκου Κ., Μπλικά Ε. , Σταματελάτου Κ., Γαβαλά Χ., Σκιαδάς Ι., και Λυμπεράτος Γ., *«Τύχη των Ξενοβιοτικών Ουσιών κατά την Επεξεργασία της Ιλύος»*, 5^ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Θεσ/νίκη, Μάιος (2005)

Summer schools:

1. Lyberatos G., *Microbial Fuel Cells*, 1st Training school, Energy recovery in anaerobic processes in wastewater and sludge processing, Silesian University of Technology, Gliwice, Poland, 24th-27th September 2013
2. Lyberatos G., *Hydrogen and biopolymer production*, 1st Training school, Energy recovery in anaerobic processes in wastewater and sludge processing, Silesian University of Technology, Gliwice, Poland, 24th-27th September 2013
3. Lyberatos G., *Science and Engineering of biowaste conversion pathways*, 1st SAHYOG Summer School, Athens, 9-16 June 2013
4. Lyberatos G., *Chemicals in electronic wastes. Impacts and technologies for recovery and safe disposal*, EWASTEU: Legal Regulations and Implementations on E-Waste in EU - Yasar University Izmir, Turkey 28 April-11 May 2013
5. Lyberatos G., *“Organic Wastes and Wastewaters as Sources of Materials and Energy”*, WasteEng 2014, Rio di Janeiro Brazil (2014)
6. Lyberatos G., *“Biohydrogen and biomethane and from agro-industrial wastewaters”*, Nicosia, Cyprus, October 29-31, (2014)

2. ΕΚΠΑΙΔΕΥΤΙΚΟ ΕΡΓΟ

A. Διδαχθέντα μαθήματα

1. Εθνικό Μετσόβιο Πολυτεχνείο :

Βιοχημική Μηχανική
Περιβαλλοντική Μηχανική
Στοιχεία Μηχανολογικού Εξοπλισμού
Ηλεκτρομηχανολογικός εξοπλισμός Διεργασιών
Βιοτεχνολογία και Περιβάλλον
Φαινόμενα Μεταφοράς I: Ροή Ρευστών
Βιομάζα (μεταπτυχιακό, ΔΠΜΣ Παραγωγή και Διαχείριση Ενέργειας)

2. Ελληνικό Ανοικτό Πανεπιστήμιο:

ΔΙΑ 51 Διαχείριση Στερεών Αποβλήτων

3. Πανεπιστήμιο Πατρών:

1. Τεχνολογία Περιβάλλοντος
2. Βιοχημικές Διεργασίες
3. Επεξεργασία Βιομηχανικών Αποβλήτων
4. Επεξεργασία Στερεών Απορριμμάτων
5. Βιολογία

4. Μεταπτυχιακά/Επιμορφωτικά Μαθήματα στο Παν/μιο Πατρών:

1. Βιολογικός Καθαρισμός (Φθινόπωρο '91, 60 ώρες εισηγήσεων)
2. Βιοχημικές Διεργασίες (Φθινόπωρο '91, 30 ώρες εισηγήσεων)
3. Ρύθμιση Διεργασιών, (μεταπτυχιακό)
4. Τεχνολογία Περιβάλλοντος, (μεταπτυχιακό)
5. Περιβαλλοντική Βιοτεχνολογία, (μεταπτυχιακό)

University of Florida:

Προπτυχιακά:

1. ECH 3023 Introduction to Chemical Engineering
2. ECH 4404L Chemical Engineering Operations Laboratory
3. CAP 3210 Computer Model Formulation
4. ECH 4934 Professional Seminar
5. ECH 4524 Reactor Dynamics and Design
6. ECH 4504 Chemical Kinetics and Processing

Μεταπτυχιακά:

1. ECH 5746 Biochemical Engineering Principles

2. ECH 3012 Elements of Chemical Engineering
3. ECH 6937 Graduate Thermodynamics
4. ECH 6926 Graduate Seminar
5. ECH 6126 Computer Control of Processes

B. Επίβλεψη διατριβών:

Διδακτορικά (Ολοκληρωμένα):

1. O'Neil, D.G., "Dynamic Modelling of Continuous Microbial Growth Processes", 1988, U. Florida
2. Abulesz, E.M., "Periodic Optimization of Biological Systems", 1988, U. Florida
3. Stephens, M.L., "The Effect of Periodic Operation on Mixed and Recombinant Bacterial Populations", 1989, U. Florida
4. Harmon, J., "Adaptive Optimization of Continuous Microbial Growth Processes", 1990, U. Florida
5. Rodin, B., "Temporal Versus Spatial Separation of Growth and Lactate Production Phases for a Mutant Escherichia Coli Culture", 1992, U. Florida
6. Pullamanapallip, P., "Modelling and Control of the Anaerobic Digestion Process", 1992, U. Florida
7. Vayenas D., "Modeling of Nitrifying Trickle Filters", 1994, University of Patras
8. Kornaros M., "Modeling and Optimization of Denitrification Systems", 1995, University of Patras
9. Skiadas I., "The Periodic Anaerobic Baffled Reactor", 1998, U. of Patras
10. Zafiri C., "Modeling of Biological Phosphorus Removal", 1996, University of Patras
11. Liakou S., "Integrated Chemical and Biological Wastewater Treatment" 1998, U. of Patras
12. Gavala H., "Anaerobic Codigestion of Agroindustrial wastewaters", in process, 1998, U. of Patras
13. Zissi U., "Biodegradation of azo-dyes by pure and defined mixed microbial cultures", 1998, U. of Patras
14. Stamatelatou, K., "Optimization of anaerobic treatment processes", 1999, U. of Patras
15. Katsoyannis A., "Biological Nitrogen Removal and Adaptive Optimization of Nitrification in Sequencing Batch Reactors", 2001, U. of Patras
16. Agelis George, "Treatment of Edible Olive Processing Wastewater", 2001, U. of Patras
17. Marazioti Constantina, "Dynamics of Mixed Denitrifying Cultures", 2003, U. of Patras
18. Drillia Panagiota, "Fate of pharmaceuticals in soils, natural waters and wastewater treatment processes", 2005, U. of Patras
19. Fountoulakis, Michael. "Fate and Impact of xenobiotics on the anaerobic digestion of wastewaters and sludge", 2005, U. of Patras
20. Dokianakis Spyros, "Impact of Xenobiotic Compounds and dissolved oxygen on the nitrification process and optimization of nitrogen removal from municipal wastewaters", 2006 U. of Patras

21. Antonopoulou Georgia, “Development of an Integrated Process for the Production of Hydrogen and Biogas from a Sweet Sorghum Energy Crop” , 2006, U.of Patras
22. Ntaikou Ioanna, “Production of Hydrogen from Synthetic Substrates and a Sweet Sorghum Energy Crop by a pure Culture of the fibrolytic bacterium Ruminococcus albus “, 2006 U.of Patras
23. Dravillas Constatinos, “Development of a two-stage system for the production of biogas from solid waste and biomass” , 2007, U.of Patras
24. Kalfas Haralambos, “Biogas production though the anaerobic digestion of pretreated and nonpretreated olive pulp”, 2007, U.of Patras
25. Georgiopoulou Martha, “ Development of Methods for the Selection of the Best Available Technology for Industrial Wastewater Treatment”, 2007, University of Patras
26. Vlahos Panagiotis, “Development of Alternative Processes for the Disinfection and Deodorisation of Natural Corks”, 2007, U.of Patras
27. Koutrouli Eleni, “Hydrogen production from olive pulp”, 2008, U. of Patras
28. Blika Paraskevi, “Biotechnological Methods for Olive-mill Wastewater Treatment”, 2009, U. of Patras
29. Pakou Constantina, «Fate of xenobiotics during sludge composting”, 2010, U. of Patras
30. Vlassis Theofilos, “Processes for energetic valorization of glycerol with production of biogas, biohydrogen and/or electricity using a microbial fuel cell”, 2011, U.of Patras
31. Venetsaneas Nikolaos, “Production of hydrogen and methane from cheese whey” , 2012, U. of Patras
32. Tremouli, Asimina, “Development of a Novel Microbial Fuel Cell Process for the energetic valorization of Liquid Wastes, 2013, U. of Patras
33. Galanopoulos Christos, “Optimization of natural wastewater treatment systems”, 2013, University of Patras
34. Dounavis Athanassios, “Biotechnological Production of Hydrogen and Methane from Crude Glycerol”, 2015, University of Patras
35. Michalopoulos Ioannis, Integrated valorization of organic solid wastes for the production of biogas in a pilot scale Periodic Anaerobic Baffled Reactor (PABR) and for the production of compost, 2017, National Technical University of Athens
36. Alexandropoulou Maria, “Production of gaseous biofuels from food industry wastes through biotechnological processes”, 2017, National Technical University of Athens
37. Lytras Georgios-Marios, “Two-phase biotechnological removal of hexavalent chromium”, 2018, National Technical University of Athens
38. Mathioudakis Dimitrios, “ Development and Evaluation of alternative processes for the valorization of Food Waste” , 2022, National Technical University of Athens
39. Papanikola Kalliopi, “Development of a methodology for the assessment of the hazardous nature of municipal and industrial wastes in relation with hazardous properties HP3: Inflammable and HP12: Acute toxicity gas release”, 2022, National Technical University of Athens

40. Kamperidis Theophilos, "Modeling and Optimization of Microbial Fuel Cells", 2023, National Technical University of Athens

Διατριβές Master:

1. Jain, R., "Mathematical Modelling and Assessment of Optimal Operational Strategies for a Nitrogen-Removing Wastewater Treatment Plant", (1988), U. Florida
2. Hamilton, J., "Pilot-Plant Study for a Predenitrification System at the Kanapha WasteWater Treatment Plant "(1988), U. Florida
3. Antoniou, P., "Determination of Biokinetic Coefficients for Nitrification in the Activated Sludge Process "(1988), U. Florida
4. Rodin, B., "Effect of Transient Operation on the Behavior of Escherichia Coli and Development of an Appropriate Time-Delay Model", (1989), U. Florida
5. Βλάχη Μ., "Απομάκρυνση Αζώτου από Αστικά Λύματα σε Αντιδραστήρα SBR", 2000, Πανεπιστήμιο Πατρών
6. Βάντζος Ε., «Επίδραση της Αλατότητας στη Διεργασία της Καθίζησης», 1999, Πανεπιστήμιο Πατρών
7. Ρωξάνης Θ., «Επεξεργασία αποβλήτων βιομηχανίας ανακύκλωσης ορυκτελαίων», 2001, Πανεπιστήμιο Κρήτης
8. Φρούντα Κ., «Βιολογική επεξεργασία αποβλήτων Βαφείου», 2001, Πανεπιστήμιο Κρήτης
9. Κωνσταντινίδου Γεωργία, «Ανάπτυξη διεργασιών απομάκρυνσης του φαινολικού φορτίου αποβλήτων ελαιουργείων με βάση τους μύκητες λευκής σήψης», 2006, Πανεπιστήμιο Κρήτης
10. Φλέσσα Γεωργία « Βιολογική απομάκρυνση του αζώτου από υγρά απόβλητα μέσω παράκαμψης της παραγωγής νιτρικών σε αντιδραστήρα SBR», 2003, Παν/μιο Πατρών
11. Κακογιάννη Αλεξάνδρα « Επίδραση του κλάσματος αερισμού στην βιολογική αδαίρεση αζώτου απ'πο αστικά λύματα σε σύστημα συστοιχίας αντιδραστήρων CSTR», 2003, Παν/μιο Πατρών
12. Παπάζογλου Χριστίνα, «Δυναμική συμπεριφορά αναερόβιων αντιδραστήρων τύπου CSTR για την παραγωγή βιοαερίου μέσω της διεργασίας της αναερόβιας χώνευσης», 2009, Παν/μιο Κρήτης
13. Κοψαχείλης Αλέξανδρος, «Αναερόβια χώνευση υγρών αποβλήτων ελαιοτριβείου σε ένα περιοδικό αναερόβιο αντιδραστήρα με ανακλαστήρες (PABR) και κλασματοποίηση των εκροών», 2009, Παν/μιο Πατρών
14. Μοσχοπούλου Σοφία, «Μελέτη της επίδρασης λειτουργικών παραμέτρων στην βιολογική απομάκρυνση αζώτου από αστικά λύματα σε μονάδα οξειδωτικής τάφρου», 2009, Παν/μιο Πατρών
15. Λύτρας Χρήστος, Σχεδιασμός αντιδραστήρα τύπου SBR για την βιολογική απομάκρυνση του αζώτου από υγρά απόβλητα νέσω παράκαμψης της παραγωγής νιτρικών σε υγρά απόβλητα, 2011, Παν/μιο Πατρών
16. Φωτίδης Ιωάννης, Διαχείριση και ενεργειακή αξιοποίηση υγρών αγροτικών αποβλήτων ζωικής προέλευσης – παραγωγή βιοκαυσίμων, ΕΑΠ, 2012

17. Διαμαντόγλου Ιωάννης, ΔΙΑΧΕΙΡΙΣΗ ΝΟΣΟΚΟΜΕΙΑΚΩΝ ΑΠΟΒΛΗΤΩΝ - ΕΠΙΛΟΓΗ ΒΕΛΤΙΣΤΗΣ ΤΕΧΝΟΛΟΓΙΑΣ ΚΑΙ ΚΟΣΤΟΣ ΔΙΑΧΕΙΡΙΣΗΣ ΓΙΑ ΤΗΝ 1 Δ.Υ.ΠΕ ΑΤΤΙΚΗΣ, ΕΑΠ,2012
18. Νεμτσόβ Δημήτριος, ΑΝΑΕΡΟΒΙΑ ΧΩΝΕΥΣΗ ΖΩΙΚΩΝ ΥΠΟΠΡΟΪΟΝΤΩΝ, ΕΑΠ 2012
19. Γιώτης Νικόλαος, Σχεδιασμός και λειτουργία Μονάδας Παραγωγής Βιοαερίου από σύμμεικτα στερεά απόβλητα. Κοινωνικά και περιβαλλοντικά οφέλη, ΕΑΠ 2012.
20. Κιουτσόκωστας Ελευθέριος, «ΣΧΕΔΙΑΣΜΟΣ ΜΟΝΑΔΑΣ ΠΑΡΑΓΩΓΗΣ ΒΙΟΑΕΡΙΟΥ ΑΠΟ ΚΤΗΝΟΤΡΟΦΙΚΑ ΑΠΟΒΛΗΤΑ, ΖΩΙΚΑ ΥΠΟΠΡΟΪΟΝΤΑ & ΕΝΕΡΓΕΙΑΚΗ ΚΑΛΛΙΕΡΓΕΙΑ ΣΟΡΓΟΥ ΣΤΟΝ ΝΟΜΟ ΚΑΒΑΛΑΣ», ΕΑΠ 2013
21. Παπαχριστόπουλος Ευστάθιος, «ΠΡΟΚΑΤΑΡΚΤΙΚΗ ΠΕΡΙΒΑΛΛΟΝΤΙΚΗ ΕΚΤΙΜΗΣΗ ΚΑΙ ΑΞΙΟΛΟΓΗΣΗ ΧΩΡΟΥ ΔΙΑΘΕΣΗΣ ΑΔΡΑΝΩΝ ΥΛΙΚΩΝ ΓΙΑ ΤΗΝ ΑΠΟΚΑΤΑΣΤΑΣΗ ΔΗΜΟΣΙΑΣ ΔΑΣΙΚΗΣ ΕΚΤΑΣΗΣ ΜΕ ΤΕΧΝΗΤΗ ΑΝΑΔΑΣΩΣΗ ΣΤΗ ΘΕΣΗ ΜΟΙΡΕΪΚΑ ΤΟΥ π. ΔΗΜΟΥ ΒΡΑΧΝΕΪΚΩΝ», ΕΑΠ,2013
22. Ντάφλος Αλέξανδρος, «ΕΝΕΡΓΕΙΑΚΗ ΑΞΙΟΠΟΙΗΣΗ ΤΩΝ ΖΩΙΚΩΝ ΑΠΟΒΛΗΤΩΝ ΣΤΗΝ ΠΕΡΙΦΕΡΕΙΑ ΗΠΕΙΡΟΥ», ΕΑΠ, 2013
23. Τζώρτζη Μαρία, «Προεπεξεργασία γεωργικών υπολειμμάτων για παραγωγή βιοαερίου», ΕΑΠ, 2013
24. Koumelis I., "Biotechnological Production of Biopolymers from wastes", "2014"
25. Αναστασάκη Β., "ΔΙΑΧΕΙΡΙΣΗ ΑΠΟΒΛΗΤΩΝ ΙΑΤΡΕΙΩΝ", ΕΑΠ, 2014
26. Δουλάλας Γ. , «ΔΙΑΧΕΙΡΙΣΗ ΑΠΟΒΛΗΤΩΝ ΧΟΙΡΟΤΡΟΦΕΙΟΥ ΜΕ ΕΜΦΑΣΗ ΣΤΗΝ ΑΞΙΟΠΟΙΗΣΗ ΤΟΥΣ», ΕΑΠ, 2014
27. Γληγόρη Μ. «ΕΛΕΓΧΟΣ ΕΚΠΟΜΠΩΝ ΒΙΟΑΕΡΙΟΥ ΕΝΟΣ ΧΥΤΑ», ΕΑΠ,2014
28. Βάρκας, Α. «ΣΥΝΔΙΑΧΕΙΡΙΣΗ ΤΩΝ ΑΓΡΟΤΙΚΩΝ ΚΑΙ ΚΤΗΝΟΤΡΟΦΙΚΩΝ ΑΠΟΒΛΗΤΩΝ ΜΕ ΣΤΟΧΟ ΤΗΝ ΕΝΕΡΓΕΙΑΚΗ ΑΞΙΟΠΟΙΗΣΗ: Η ΠΕΡΙΠΤΩΣΗ ΤΗΣ ΛΕΣΒΟΥ», ΕΑΠ,2015
29. Μαρκουλής Α., «Διαχείριση Αποβλήτων στο Εθνικό Μετσόβιο Πολυτεχνείο», ΕΑΠ, 2015
30. Ρόκκα Χ, «ΔΙΑΧΕΙΡΙΣΗ ΤΩΝ ΦΑΡΜΑΚΕΥΤΙΚΩΝ ΑΠΟΒΛΗΤΩΝ ΚΑΙ ΤΩΝ ΠΕΡΙΒΑΛΛΟΝΤΙΚΩΝ ΕΠΙΠΤΩΣΕΩΝ ΤΟΥΣ», ΕΑΠ,2015
31. Κρητικός Β., «ΑΝΑΠΤΥΞΗ ΣΥΣΤΗΜΑΤΟΣ ΔΙΑΧΕΙΡΙΣΗΣ ΣΤΕΡΕΩΝ ΑΠΟΒΛΗΤΩΝ ΓΙΑ ΤΟ ΝΟΜΟ ΣΑΜΟΥ, ΜΕ ΕΜΦΑΣΗ ΣΤΗΝ ΑΝΑΚΥΚΛΩΣΗ», ΕΑΠ, 2015
32. Δρατζίδα Χ., «Η ΔΙΑΧΕΙΡΙΣΗ ΤΩΝ ΣΤΕΡΕΩΝ ΑΠΟΒΛΗΤΩΝ ΤΩΝ ΚΛΩΣΤΟΪΦΑΝΤΟΥΡΓΙΚΩΝ ΠΡΟΪΟΝΤΩΝ ΚΑΙ Η ΑΝΑΚΥΚΛΩΣΗ ΥΦΑΣΜΑΤΩΝ ΣΤΗΝ ΕΛΛΑΔΑ», ΕΑΠ, 2017
33. Αργύρη Ε. , «ΟΛΟΚΛΗΡΩΜΕΝΟ ΣΧΕΔΙΟ ΔΙΑΧΕΙΡΙΣΗΣ ΚΕΝΩΝ ΣΥΣΚΕΥΑΣΙΩΝ ΤΩΝ ΠΡΟΪΟΝΤΩΝ ΦΥΤΟΠΡΟΣΤΑΣΙΑΣ ΣΤΟ ΝΟΜΟ ΒΟΙΩΤΙΑΣ», ΕΑΠ, 2017
34. Δημοπούλου Ι., 'Τεχνικές και Δυνατότητες Ανακύκλωσης Χαρτιού"
35. Κουλετάκης Κ., ΣΥΓΚΡΙΤΙΚΗ ΑΝΑΛΥΣΗ ΚΥΚΛΟΥ ΖΩΗΣ (LCA) ΠΡΟΪΟΝΤΩΝ ΟΙΚΙΑΚΗΣ ΦΡΟΝΤΙΔΑΣ ΜΙΑΣ ΒΙΟΜΗΧΑΝΙΚΗΣ ΜΟΝΑΔΑΣ, ΔΠΜΣ Παραγωγή και Διαχείριση Ενέργειας, ΕΜΠ, 2024
36. Λεουνάκης Ν., Μελέτη του Ανθρακικού Αποτυπώματος μιας Βιομηχανικής Μονάδας Παραγωγής Προϊόντων Οικιακής Χρήσης, ΔΠΜΣ Παραγωγή και Διαχείριση Ενέργειας, ΕΜΠ, 2024

3. ΔΙΟΙΚΗΤΙΚΟ ΕΡΓΟ

Εθνικό Μετσόβιο Πολυτεχνείο

1. Μέλος της Συγκλητικής Επιτροπής Προπτυχιακών Σπουδών, 2014-σήμερα
2. Συντονιστής Επιτροπής Προγράμματος Σπουδών 2014-2016

Πανεπιστήμιο Πατρών

1. Αντιπρύτανης Πανεπιστημίου Πατρών, 1994-1997
2. Πρόεδρος Χημικών Μηχανικών, 1999-2003
3. Πρόεδρος Επιτροπής Πολιτιστικής Ανάπτυξης, 1995-1997, 2000-2003
4. Πρόεδρος Γραφείου Διαμεσολάβησης και Καινοτομιών, 1995-1997
5. Πρόεδρος Γραφείου Διεθνών Σχέσεων, 1995-1997
6. Αναπληρωματικό μέλος Επιτροπής Ερευνών
7. Πρόεδρος Θεατρικών Σπουδών (1996-1997)

University Florida

- *Department Service :*

1. Seminar Coordinator, Spring 1987, Spring 1988
2. Qualifying Examinations Committee
3. Computer Departmental Committee
4. Chairman Search Committee
5. Faculty Search Committee
6. Chairman of the proposal committee for 3 graduate students and member of the proposal committee for over 15 students
7. Graduate Student Admissions

- *College Service :*

Engineering Library Committee

- *University Service :*

1. Biotechnology "Task Force," Spring 1986-Spring 1987 Committee that formed the Interdisciplinary Center for Biotechnology Research
2. Biotechnology Seminar Committee
3. Patent Committee on Chemical Compounds, Compositions and Processes, 1987-1990

4. Διοργάνωση Συνεδρίων και Summer Schools

Διοργάνωση Διεθνών Συνεδρίων

1. Engineering for Waste Valorisation WasteEng08, Πάτρα 3-5 Ιουνίου 2008
2. Protection and Resoration of the Environment 9, Κεφαλονιά 29/6-3/7,2008
3. INTERNATIONAL SYMPOSIUM ON CONSTRUCTED WETLANDS & SMALL DECENTRALIZED WASTEWATER TREATMENT PLANTS, ISCW2019, 29th-31st August 2019, Patras, Greece
4. Wastewater Treatment Technologies and Environmental Impact, Olympia Village Hotel, July 2019

Διοργάνωση Ελληνικών Συνεδρίων

1. 4^ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Πάτρα, Ιούνιος 2003
2. 7^ο Πανελλήνιο Επιστημονικό Συνέδριο Χημικής Μηχανικής, Πάτρα, Ιούνιος 2009