

SHORT CURRICULUM VITAE

JOHANNIS SIMITZIS

ADDRESS:

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I. PERSONAL FEATURES

Name : Johannis

Surname : Simitzis

Father's and mother's name : Christos, Chariklia

Date and place of birth : 6.2.1944, Athens

Nationality : Greek

Military obligations : Accomplished (July 1968- July 1971)

II. UNIVERSITY STUDIES – DIPLOMAS

- 1) Diploma of Chemical Engineer, National Technical University of Athens (NTUA), (1968)
- 2) Diploma of Programming of Electronic Computers, NCSR "Dimokritos", (1969)
- 3) Diploma of Business Administration, Economic University of Athens (ASOEE), (1971)
- 4) Ph.D. (Dr.rer.nat.), University of Karlsruhe (TH), Germany, (1975)

Foreign Languages : English, German

Present position : Professor at N.T.U.A. / School of Chemical Engineering / Section III
Materials Science and Engineering

Scientific topics : Materials Science and Engineering (especially for polymers and composite materials)

III. PROFESSIONAL CAREER

- A. Programmer of Electronic Computers at the Statistics Direction of the Army's commandery, Greece (Febr.1969-July 1971)
- B. Scientific collaborator (salaried post) of the Institute of Chemical Technics, University of Karlsruhe and performance of his Ph. D.-Thesis, Germany (Sept.1971 - May 1975)
- C. Special Scientist at the University of Thessaloniki, Chair of Physical Chemistry, Greece, (Nov.1975-June1977)
- D. Laboratory- Director, Industry "VIANIL", Greece, (Sept.1977-Dec.1978)

- E. National Technical University of Athens, Department of Chemical Engineering, Section III Materials Science and Engineering (Dec 1978 – today)
1. Senior Assistant, (Dec.1978-Sept.1982)
 2. Lecturer in Polymer Technology at the Laboratory of Special Chemical Technology (Sept.1982- Aug.1985)
 3. Assistant Professor in Polymer Technology at the same Laboratory (Aug. 1985-June 1990)
 4. Associate Professor in Polymer Technology (June 1990-1996) and Director of the same Laboratory (June 1990-Dec. 1994)
 5. Professor (1996- today)
- F. National Technical University of Athens / Interdepartmental postgraduate program “Materials Science and Technology” (1997 - today) and for the other Interdepartmental postgraduate programs of N.T.U.A (1999 – 2008).
1. Director of this postgraduate program (from its constitution in 1997 – today)
 2. Vice president of the Senatorial Committee of postgraduate programs of N.T.U.A. (Feb. 1999 – Sept. 2004)
 3. Institutional / Scientific responsible of all the postgraduate programs (16) of N.T.U.A. which were financed from sources of the European Union and the Greek Ministry of Education (Sept. 2001 – Aug. 2003)
 4. Institutional / Scientific responsible of all the postgraduate programs (16) of N.T.U.A. which were submitted in order to be evaluated for financial support from sources of the European Union and the Greek Ministry of Education (Sept. 2001 – May 2002)
 5. Institutional / Scientific responsible of four postgraduate programs of N.T.U.A. which were submitted and financed from sources of the European Union and the Greek Ministry of Education (Sept. 2003 – 2008)
- G. Visiting Professor
At the Polymer Physics / Technical University of Berlin (TH), Germany (April – July 1988, Nov. – Dec. 1990, June-July : 1991,1992,1993) and at the Deutsches Kunststoff – Institut / Darmstadt, Germany (Oct.-Dec. 1988, Febr. – March 1989)

IV. **TEACHING ACTIVITIES**

Undergraduate courses at the Aristotle University of Thessaloniki / Department of Chemical Engineering (1975 - 1977)

1. Physical Chemistry
2. Constructive Materials

Undergraduate courses at the National Technical University of Athens / School of Chemical Engineering (1979 - today)

Teaching of two or more courses per semester on the following subjects:

1. Experimental Practice on Polymers
2. Polymerisation Processes and Exercises
3. Technology of Polymer Production
4. Polymer Processing
5. Structure and Properties of Polymers
6. Polymers
7. Polymer Science
8. Polymer Technology
9. Polymers and composite materials

Postgraduate courses at the National Technical University of Athens / Interdepartmental postgraduate program “Materials Science and Technology” (1997 - today)

Teaching of two or more courses per semester on the following subjects:

1. Engineering Materials (part C: polymers)
2. Technology of Advanced Polymers and Composite Materials
3. Basic Experimental Practice on Materials
4. Thermo-analytical Methods and Thermal Properties of Materials
5. Advanced Experimental Practice on Materials

V. RESEARCH ACTIVITIES

A. Industrially produced polymers for conventional technological applications

- ❖ Unsaturated polyesters
- ❖ Phenolic resins
- ❖ Acrylic polymers
- ❖ Polystyrene
- ❖ Polyurethanes
- ❖ Polyolefines (polyethylenes, polypropylene)
- ❖ Recycling of polymers

B. Carbon Fibers, Nanostructured Carbon and Composites

- ❖ Carbon fibers production from polyacrylonitrile fibers
- ❖ Surface modification of carbon fibers
- ❖ Carbon fibers composites with polymeric matrix and conducting fillers or carbon nanotubes
- ❖ Nanostructured carbons

C. Semiconducting Organic Polymers and Composites

- ❖ Intrinsic semiconducting polymers and copolymers

Applications :

- Organic photovoltaic cells
- Organic light emitting diodes
- ❖ Polymers with conducting additives (e.g. carbon black, organic semiconducting polymers)

D. Polymeric Carbons based on Precursors of Natural and Synthetic Polymers

- ❖ Precursors:
 - Lignocellulosic (natural) polymers / utilization of agricultural by-products
 - Synthetic polymers (e.g. Novolac resin)
- ❖ Applications:
 - Carbonaceous adsorptive polymers
 - Carbonaceous semiconducting polymers
 - Electrodes for electrochemical applications

E. Biomaterials / Biopolymers

- ❖ Bioactive or surface – reactive ceramics and acrylic matrix
 - Bioglasses and hydroxyapatite
 - Acrylic bone cements
- ❖ Biodegradable polymers
 - Polyesters based on glycolic acid and copolymers with dicarboxylic acids and diols
 - Polyesters based on lactic acid and copolymers with dicarboxylic acids and diols

VI. SCIENTIFIC PUBLICATIONS

1. Ph.D.- Thesis (Dr.rer.nat.), University of Karlsruhe (TH), Germany (1975)
J. Simitzis, "Einfluss von Copolymergehalt und Verstreckung von PAN-Fasern auf das Pyrolyseverhalten und die Eigenschaften daraus hergestellter Kohlenstoff-Fasern"

2. J. Simitzis, Scientific Monography : "Conversion of organic polymers into inorganic polymers (graphite like materials) (new materials with technological importance : carbon fibers – carbonaceous porous materials)", Athens, 1986, 73 pages.
3. Published critic for two polymer books:
 - a. J.Simitzis, Acta Polymer., 45, (1994), p.57 for the book : A.Echte, "Handbook der Technischen Polymerchemie"
 - b. J.Simitzis, Acta Polymer., 47, (1996), p.470 for the book : R.G.Griskey, «Polymer Process Engineering»
4. Research publications (see list below) concerning :
 - A) Publications in international journals evaluated by referees
 - B) Publications in Greek scientific journals evaluated by referees
 - C) Communications in international scientific conferences with published proceedings (extended or abstracts)
 - D) Communications in Greek scientific conferences with published proceedings (extended or abstracts)
5. Technical reports : 40
6. Patents : 10

VII. OTHER SCIENTIFIC ACTIVITIES

A. University Books (in Greek language)

1. J. Simitzis, C. Moschos, "Constructive Materials", Thessaloniki, April 1976, 71 pages
2. J. Simitzis, "Introduction to Physical Chemistry of the Physical Systems", Thessaloniki, May 1977, 93 pages
3. J. Simitzis, "Principles of Polymer Chemistry", Athens, 1985, 512 pages
4. J. Simitzis, "Industrial Processes for Production of Polymers", Athens, 1986, 60 pages
5. J. Simitzis, "Laboratory Course on Polymers", Athens, 1992, 90 pages
6. J. Simitzis, "Polymer Technology", Athens, 1993, 270 pages
7. J. Simitzis, "Polymers", Athens, 1994, 400 pages
8. J. Simitzis, "Polymer Science", Athens, 1994, 440 pages
9. J. Simitzis, "Polymers and composite materials", Athens, 2010, 223 pages
10. J. Simitzis, "Thermo-analytical Methods and Thermal Properties of Materials", Athens, 2004, 188 pages
11. J. Simitzis, "Technology of Advanced Polymers and Composite Materials", Athens, 2002, 84 pages
12. (in English language) J. Simitzis, Chapter "Polyacrylonitrile", in the book "Handbook of Thermoplastics", edited by O.Olabisi, Marcel Dekker Inc., New York, Basel, 1997, pp.177-201 (after invitation).
13. J. Simitzis, Z. Ioannou, Chapter "Activated carbonaceous materials based on thermosetting binder precursors", in the book "Activated Carbon : Classifications, Properties and Applications", Nova Science Publishers, Inc., New York (after invitation, for submission up to the middle of November 2010).

B. Participation in Scientific Conferences, Symposia : over 60
(Member of organizing and scientific committee : over 30)

C. Member of 6 international scientific societies

D. Originating member, elected secretary- general (1984-1990, 1993-2006) and vice president (1991-1992) of the "Hellenic Polymer Society" (ELEP) (which is an unprofitable scientific society).

Secretary – general (1995-1996) of European Polymer Federation (EPF) (ELEP has the presidency of the EPF during this period).

E. Referee of scientific papers and evaluator of research proposals and industrial investment proposals

- Referee of scientific journals :
 - Acta Polymerica/Germany
 - Polymer Bulletin
 - J. of Analytical and Applied Pyrolysis
 - J. of Applied Polymer Science
 - Materials Letters
 - Polymer International
 - Fuel Processing Technology
 - Pigment and Resin Technology
 - European Polymer Journal
 - Chemical Engineering J.
 - Thermochemica Acta
 - J. Hazardous Mater
 - J. Canadian Chem. Eng
 - J. Physical Chemistry
 - Corrosion Science
 - Iranian Polymer J.
 - Scientific edition "Technika Chronika"
- Evaluator of research proposals and industrial investment proposals of General Secretary of Research and Technology of Greece (about 70)
- Evaluator of research proposals (Grant Agency) of Academy of Sciences, Czech Republic, 25.06.2004- 27.07.2004
- Evaluator of research proposals of the Institution of Research Promotion Foundation (RPF) of Cyprus 2008 - 2010

LIST OF PUBLICATIONS

A) Publications in international journals evaluated by referees

- 1) ($\alpha 1$) E. Fitzer, K.H. Geigl, H. Heym, J. Simitzis, "Benetzung und Haftung zwischen Polymermatrix und Verstärkungsfasern, insbesondere Kohlenstoff-Fasern", Chemie-Ingenieur -Technik, 47. Jahrgang, Heft 19, (1975), 811. This paper is also available as microfiche (MS 283/75), due to its long extent (23 pages)
- 2) ($\alpha 2$) J. Simitzis, "Kinetik des Schrumpfprozesses bei der Herstellung von Kohlenstoff-Fasern aus PAN-Fasern", Chemiker-Zeitung, 100 Jahrgang, Nr.10, (1976), 416-422
- 3) ($\alpha 3$) J. Simitzis, "Einfluss von MA-Copolymergehalt der PAN-Fasern auf ihr Pyrolyseverhalten während der Oxidation", Colloid and Polymer Science, 255, Nr.11, (1977), 1074-1085
- 4) ($\alpha 4$) J. Simitzis, "Einfluss von MA-Copolymergehalt der PAN-Fasern auf ihr Pyrolyseverhalten während der Verkokung zur Herstellung von Kohlenstoff-Fasern", Colloid and Polymer Science, 255, Nr.10, (1977), 948-953

- 5)** ($\alpha 5$) J. Simitzis, "Einfluss der γ -Bestrahlung auf das Pyrolyseverhalten der Polyacrylnitril-(PAN-)Fasern", Atomkernenergie/Kerntechnik, Bd.33, (1979), 52-56
- 6)** ($\alpha 6$) J. Simitzis, "Untersuchung des Pyrolyseverhaltens und der Eigenschaften der mit γ -Strahlen vorbehandelten Polyacrylnitril- (PAN-)Fasern", Atomkernenergie / Kerntechnik, Bd.38, (1981), 205-210
- 7)** ($\alpha 7$) J. Pomakis, J. Simitzis, "A new method to control the polyesterification process. Prospects of application in the production plants", Angew. Makromolek. Chemie, 99, (1981), 145-170
- 8)** ($\alpha 8$) J. Simitzis, C. Dimopoulou, "Polyphenylene als Ausgangssubstanz für leitfähige Materialien", Makromol. Chemie, 185,(1984), Heft 12, 2553-2568
- 9)** ($\alpha 9$) J. Simitzis, C. Dimopoulou, "Halbleiter-Materialien aus der Pyrolyse von Polyphenylenen", Makromol. Chemie, 185, (1984), Heft 12, 2569-2581
- 10)** ($\alpha 10$) J. Simitzis, "Composites von Novolak-Lignit zur Herstellung von Aktivkohle", Angew. Makromolek. Chemie, 148, (1987), 41-52
- 11)** ($\alpha 11$) J. Simitzis, "Aktivkohle aus Phenolharz mit gepressten Olivenkernen als Fullstoff", Angew. Makromolek. Chemie, 153, (1987), 165-176
- 12)** ($\alpha 12$) J. Simitzis, "Correlation between the porous structure of polystyrene and its discolouring ability", Angew. Makromolek. Chemie, 154, (1987), 51-66
- 13)** ($\alpha 13$) J. Simitzis, "Correlation between the production parameters of unsaturated polyesters with the aim to control the polyesterification process", Eur. Polym. J., Vol.24, No.1, (1988), 87-92
- 14)** ($\alpha 14$) J. Simitzis, J. Sfyraakis, "Production of carbonaceous adsorbents by using novolac-resin and cottonseed", J. Appl. Polym. Sci., 36, (1988), 1769-1779
- 15)** ($\alpha 15$) J. Simitzis, J. Sfyraakis, "Adsorption of phenols on carbonaceous adsorbents produced from phenol-formaldehyde-resin mixed with olive stones", Angew. Makromolek. Chemie, 163, (1988), 47-61
- 16)** ($\alpha 16$) J. Simitzis, "A mathematical model for computer simulation of the production of unsaturated polyesters with catalysts", Eur. Polym. J., Vol.24, No.10, (1988), 999-1003
- 17)** ($\alpha 17$) J. Simitzis, "Correlation between the production parameters and the mechanical properties of novolac resins reinforced with carbon fibers", Angew. Makromolek. Chemie, 165, (1989), 21-34
- 18)** ($\alpha 18$) J. Simitzis, "Application of a mathematical model for the polyesterification process based on mixtures of fumaric acid and adipic acid without catalyst", Angew. Makromolek. Chemie, 169, (1989), 49-58

- 19)** (α 19) J. Simitzis, I. Boro, G. Hinrichsen, "Alternating electrical conductivity of polyphenylenes and their pyrolysis residues after doping", *Angew. Makromolek. Chemie*, 174, (1990), 89-104
- 20)** (α 20) J. Simitzis, "Composites of furfuryl alcohol - formaldehyde resins and olive stones for production of activated carbons", *Angew. Makromolek. Chemie*, 184, (1991), 41-53
- 21)** (α 21) J. Simitzis, J. Sfyraakis, "Pyrolysis of lignin biomass-novolac resin for the production of polymeric carbon adsorbents", *J. Anal. & Appl. Pyrolysis*, 26, (1993), 37-52
- 22)** (α 22) J. Simitzis, D. Tzevelekis, A. Stamboulis, G. Hinrichsen, "Correlation between structure and electrical conductivity of soluble polyphenylenes", *Acta Polymer.*, 44, (1993), 294-301
- 23)** (α 23) J. Simitzis, L. Zoumboulakis, A. Stamboulis, G. Hinrichsen, "The effects of the proportion of biphenyl -AlCl₃-CuCl₂ polymerization system on the structure and the electrical conductivity of insoluble polyphenylenes", *Angew. Makromolek. Chemie*, 213, (1993), 181-196
- 24)** (α 24) J. Simitzis, "Modified polyacrylonitrile for adsorption applications", *Acta Polymer.*, 45, (1994), 104-109
- 25)** (α 25) J. Simitzis, "High temperature pyrolysis of novolac resin biomass composites", *J. Anal. & Appl. Pyrolysis*, 30, (1994), 161-171
- 26)** (α 26) J. Simitzis, J. Sfyraakis, "Activated carbon from lignocellulosic biomass - phenolic resin", *J. Appl. Polym. Sci.*, 54, (1994), 2091-2099
- 27)** (α 27) J. Simitzis, A. Stamboulis, G. Hinrichsen, "Characterization of undoped and doped isomeric o,m,p-polyphenylenes by X-ray, FTIR and electrical conductivity measurements" , *Intern. J. Polymer Analysis & Characterization*, 1, (1995), 175-183
- 28)** (α 28) J. Simitzis, "Characterization of acrylic polymers by dye-adsorption", *Intern. J. Polymer Analysis & Characterization*, 1, (1995), 185-190
- 29)** (α 29) J. Sfyraakis, A. Faliagas, J. Simitzis, "Influence of pyrolysis temperature on the adsorptive properties of adsorbents produced from novolac and biomass", *J. Appl. Polym.Sci.*, 55, (1995), 1739-1746
- 30)** (α 30) J. Simitzis, D. Fountas, "Utilization of wastes of foam polystyrene as sorbents", *J. Appl. Polym. Sci.*, 55/6, (1995), 879-887
- 31)** (α 31) J. Simitzis, "Diffusion-limited sorption of dyes on modified acrylics and acrylic copolymers", *Polymer*, 36 (1995), 1017-1021
- 32)** (α 32) J. Simitzis, "Thermally modified acrylic polymers as sorbents", *Polymer Intern.*, 36, (1995), 279-285

- 33)** (α 33) G.M. Matsas, A.C. Faliagas, J.C. Simitzis, "Removal of polymerization inhibitors from styrene based on adsorption", *Angew. Makromol. Chem.*, 227, (1995), 35-42
- 34)** (α 34) J. Simitzis, E. Terlemesian, I. Mladenov, "Utilization of waste PAN fibers as adsorbents by chemical and thermal modification", *Eur. Polym. J.*, 31, (1995), 1261-1267
- 35)** (α 35) J. Simitzis, "Modification of wastes of PAN-fibers for adsorption applications", *Angew. Makromol. Chemie*, 228, (1995), 13-24
- 36)** (α 36) J.Simitzis, J.Sfyraakis, A. Faliagas, "Characterization of pore structure by porosimetry and sorption on adsorbents produced from novolac-biomass", *Mater. Chem.Phys.*, 41, (1995), 245-250
- 37)** (α 37) J. Simitzis, J. Sfyraakis, A. Faliagas, "Adsorption properties and microporous structure of adsorbents produced from phenolic resin and biomass", *J. Appl. Polym. Sci.*, 58, (1995), 541-550
- 38)** (α 38) J. Simitzis, C. Paitontzis, N. Economides, "Influence of compatibilizer and additives on the mechanical properties of polyethylene - polystyrene blends", *Polymers & Polym.Composites*, (1995), 3/6, (1995), 427-434
- 39)** (α 39) J.Simitzis, K.Karagiannis, L.Zoumpoulakis, "Curing of novolac - lignocellulosic composites", *Polymer Intern.*, 38, (1995), 183-189
- 40)** (α 40) A. Faliagas, J. Sfyraakis, J. Simitzis, "Influence of the resin content on the sorption properties of adsorbents produced from novolac - biomass composites", *J.Mater.Sci.*, 31, (1996), 199-203
- 41)** (α 41) J. Simitzis, L. Zoumpoulakis, "Influence of FeCl_3 - dopant on the electrical conductivity of pyrolysed aromatic polymers", *J.Mater.Sci.*, 31, (1996), 1615-1620
- 42)** (α 42) J. Simitzis, K. Karagiannis, L. Zoumpoulakis, "Influence of biomass on the curing of novolac - composites", *Eur.Polym.J.*, 32, No.7, (1996), 857-863
- 43)** (α 43) J. Simitzis, A. Stamboulis, G. Hinrichsen, "Effect of doping systems, heat and time on the electrical conductivity of poly-p-phenylenes", *New Polym.Mater.*, 5, No.1, (1996), 81-91
- 44)** (α 44) J. Simitzis, A. Stamboulis, D.Tsoros, N.Martakis, "Kinetics of curing of unsaturated polyesters in the presence of organic and inorganic fillers", *Polymer Intern.*, 43, (1997), 380-384
- 45)** (α 45) A.Bismarck, M.E.Kumru, J.Springer, J.Simitzis, "Surface properties of PAN-based carbon fibers tuned by anodic oxidation in different alkaline electrolyte systems", *Appl.Surface Sci.*, 143, (1999), 45-55
- 46)** (α 46) L.Zoumpoulakis, J.Simitzis, "Ion exchange resins from phenol/formaldehyde resin-modified lignin", *Polymer Intern.*, 50, (2001), 277-283
- 47)** (α 47) J.Ch. Simitzis, L.Th. Zoumpoulakis, S.K. Soulis, L.N. Mendrinos, "Influence of residual polyesterification catalysts on the curing of polyesters", *Mikrochim.Acta*, 136, (2001), 171-174

- 48)** (α 48) J. Simitzis, L. Zoumpoulakis and S. Soulis, "Effect of composition and polyesterification catalysts on the optical properties of cured polyesters", *Polymer International*, 51, (2002), 297-307
- 49)** (α 49) J. Simitzis, L. Zoumpoulakis and S. Soulis, "DSC curing study of catalytically synthesized maleic-acid-based unsaturated polyesters", *Polymer International*, 51, (2002), 308-318
- 50)** (α 50) J. Simitzis, L. Zoumpoulakis, S. Soulis, "Review of the research results concerning the synthesis, curing, structure and properties of unsaturated polyesters", *Current Trends in Polymer Science*, 8, (2003), 107-125
- 51)** (α 51) S. Theodoropoulou, D. Papadimitriou, L. Zoumpoulakis, J. Simitzis, "Structural and optical characterization of pyrolytic carbon derived from novolac resin", *Analytical and Bioanalytical Chemistry*, 379, (2004), 788-791
- 52)** (α 52) S. Theodoropoulou, D. Papadimitriou, L. Zoumpoulakis, J. Simitzis, "Optical properties of carbon materials formed by pyrolysis of novolac –resin / biomass composites", *Diamond and Related Materials*, 13, (2004), 371-375
- 53)** (α 53) S. Soulis, J. Simitzis "Thermomechanical Behavior of Poly(Acrylonitrile-co-Methyl Acrylate) Fibres Oxidatively Treated at Temperatures up to 180 °C", *Polymer International*, 54 (2005), p. 1474-1483
- 54)** (α 54) E. Mariaritsi, L. Zoumpoulakis, J. Simitzis, P. Vassiliou, E. Hristoforou, "Coagulation sensors based on magnetostrictive delay lines for biomedical and chemical engineering applications", *Journal of Magnetism and Magnetic Materials*, 299, (2006), 41-52
- 55)** (α 55) D. Baci, J. Simitzis, "Synthesis and characterization of a calcium silicate bioactive glass", *Journal of Optoelectronics and Advanced Materials*, Vol.9, No.11, (2007) 3320-3324
- 56)** (α 56) Johannes Simitzis and Spyridon Soulis, "Correlation of chemical shrinkage of polyacrylonitrile fibres with kinetics of cyclization", *Polymer International*, 57, (2008) 99-105
- 57)** (α 57) J. Simitzis, D. Triantou, S. Soulis, "Synthesis and characterization of electrically conducting copolymers based on benzene and biphenyl", *Journal of Applied Polymer Science*, 110 (2008), 356-367
- 58)** (α 58) H. Y. Xu, D. Papadimitriou, L. Zoumpoulakis, J. Simitzis and M-Ch. Lux-Steiner, "Compositional and temperature dependence of the energy band gap of $\text{Cu}_x\text{In}_y\text{Se}_2$ epitaxial layers", *J. Phys. D: Appl. Phys.*, 41 (2008), 7pp
- 59)** (α 59) Pantelitsa Georgiou, Konstantinos Kolokotronis and Johannes Simitzis, "Synthesis of ZnO Nanostructures by Hydrothermal Method", *Journal of Nano Research*, Vol. 6, (2009), 157-168
- 60)** (α 60) Z. Ioannou, J. Simitzis, "Adsorption kinetics of phenol and 3-nitrophenol from aqueous solutions on conventional and novel carbons", *Journal of Hazardous Materials*, 171 (2009), 954–964

- 61)** (α 61) J. Simitzis, D. E. Baciú, "In vitro bioactivity investigation using FTIR, XRD and SEM/EDAX techniques of porous bioactive glasses prepared by sol-gel using PMMA beads as template", *Optoelectronics and advanced materials – rapid communications*, 3 (10) (2009), 1056-1059
- 62)** (α 62) J. Simitzis, D. Triantou, S. Soulis, K. Triantou, Ch. Simitzis, L. Zoumpoulakis, "Correlation of hydrolytic degradation with structure for copolyesters produced from glycolic and adipic acids", *J. Mater. Sci.:Mater Med* 21 (2010), 1069-1079
- 63)** (α 63) P. Georgiou, J. Walton, J. Simitzis, "Surface modification of pyrolyzed carbon fibres by cyclic voltammetry and their characterization with XPS and dye adsorption", *Electrochimica Acta*, 55 (2010), 1207-1216
- 64)** (α 64) A. Pikasi, P. Georgiou, J. Simitzis, "Manufacturing of carbonaceous materials based on olive stones biomass for electrochemical applications", *Key Engineering Materials*, 446 (2010), 23-31
- 65)** (α 65) J. Simitzis, D. E. Baciú, S. Soulis, M. Tzedaki, "Synthesis and characterization of acrylic bone cements reinforced with hydroxyapatite" *Journal of optoelectronics and advanced materials*, 12 (5) (2010), 1213-1219
- 66)** (α 66) J. Simitzis, D. Triantou, S. Soulis, "Electrically conducting copolymers synthesized by electropolymerization of biphenyl and thiophene", *Journal of Applied Polymer Science*, 118 (2010), 1494-1506
- 67)** (α 67) J. Simitzis, D. Triantou, S. Soulis, G. Tsangaris, L. Zoumpoulakis, E. Manolopoulos, "Influence of backbone rigidity on the curing and the dielectric relaxations of unsaturated polyesters", *Journal of Applied Polymer Science*, in print
- 68)** (α 68) J. Simitzis, L. Zoumpoulakis, S. Soulis, D. Triantou, Ch. Pinaka, "Electrical conductivity and mechanical strength of composites consisting of phenolic resin, carbon fibers and metal particles", *Journal of Applied Polymer Science*, in print

B) Publications in Greek scientific journals evaluated by referees (6 papers)

C) Communications in international scientific conferences with published proceedings (extended or abstracts)

- 75)** (γ 1) E. Fitzer, K.-H. Geigl, M. Heym, J. Simitzis, "Benetzung und Haftung zwischen Polymermatrix und Verstärkungsfasern, insbesondere Kohlenstoff-Fasern", *Conf.DECHEMA*, 26. Juni 1975, Frankfurt, Germany, p.1-23
- 76)** (γ 2) α) E. Fitzer, J. Simitzis, "The Influence of Copolymer Content of the PAN Precursor and of Tensile Load during Oxidation and Carbonization on the Formation of Carbon Fibers", 12. Intern. Carbon Confer., organized by The American Carbon Society and The School of Engineering, University of Pittsburg, USA, 28.7.-1.8.1975, 291-294.
 β) Abstract of this paper has been published in *Carbon*, Vol.13, No.6, (1975), 555

- 77)** (γ 3) J. Simitzis, J. Pomakis, "A new method to control the polyesterification process. Prospects of application in the production plants", VII Intern. Symp. "Polymers 80", Varna, Bulgaria, 23-25 Oct.1980
- 78)** (γ 4) J. Simitzis, L. Zoumpoulakis, "Influence of preparation conditions on the properties of unidirectional composite materials derived from carbon fibers and resin", VII Intern. Symp. "Polymers 80", Varna, Bulgaria, 23-25 Oct.1980
- 79)** (γ 5) J. Simitzis, "Preparation of activated carbon from carbonaceous materials mixed with novolac resin", VII Intern. Symp. "Polymers 80", Varna, Bulgaria, 23-25 Oct.1980
- 80)** (γ 6) J. Simitzis, J. Sfyraakis, "Adsorption of methylene blue on activated carbon derived from cottonseed and novolac resin" 4th Intern. Carbon Confer., Baden-Baden, Germany, 30 Juni - Juli 1986, 405-407
- 81)** (γ 7) J. Simitzis, G. Hinrichsen, "New semiconductive materials based on polyphenylenes", 3. Greek-German Workshop on "Materials Research for Information Technology", Thessaloniki, 26-27 Septem, 1991, Scientific Series, Forschungszentrum Julich, Vol.7, (1991), 47-62
- 82)** (γ 8) J. Simitzis, A. Stamboulis, G. Hinrichsen, "Characterization of undoped and doped polymeric carbon materials by X-ray-, FTIR- Analysis and electrical conductivity measurements", ISPAC, 6th Intern. Symp. "Polymer Analysis & Characterization", 11-14.7.1993, Crete
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