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Western Macedonia University of Applied Sciences
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Kozani, GREECE

currently on leave from the Greek Institution having an appointment as:
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1. NAME and CONTACT INFORMATION

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Nationality: Greek

Gender: Male

2. EDUCATION & TRAINING

- ♦ **Ph.D. in Chemical Engin.**, Univ. of Rochester, Rochester, NY, USA, 9/1987-7/'92
Ph.D. Thesis: *Layered Synthetic Microstructures and Size Effects of Supported-Metal Catalysts*
- ♦ **MSc. in Chemical Engin.**, Univ. of Rochester, Rochester, NY, USA, 9/1987-5/'91
Non-thesis MSc. According to the UR regulations, the MSc was granted after the successful defense of the PhD thesis research proposal.
- ♦ **BSc in Chemical Engineering (5-year program)**, Aristotle University of Thessaloniki, Thessaloniki, GREECE, 9/1982-7/'87 (GPA 9.2/10.0, summa cum laude)
Diploma Thesis: *Aggregation Phenomena in the Suspension Polymerization of Vinyl Chloride Monomer (VCM)*
- ♦ **Certificate in Teaching**, Post-graduate School for Providing Pedagogical Education & Teaching Knowledge to professional Engineers, Thessaloniki, GREECE, 1/1996-6/'96

Seminars & Courses

Participation in many training seminars and courses related to **purely scientific subjects** (thin films, adhesion, coatings, catalysis, chemical reaction engineering, oil energy sector, mechanical engineering issues in petroleum industry) and to **management issues** (project management, negotiation techniques, inter-personal relations in a working environment)

3. HONORS and AWARDS

- ♦ **Royal Society International Travel Grants 2010/R4 Award Appointee** (2011)

- ♦ Student Best Technical Presentation at the AVS-Upstate New York Symposium (1992)
- ♦ **American Vacuum Society National Student Prize** (1991)
- ♦ **Nanoscale Science and Technology Student Travel Award** (1991)
- ♦ Elon Huntington Hooker Graduate Fellowship (1991-1992)
- ♦ IAESTE Fellowship (Summer 1985) (IAESTE: International Association for Exchanging Students for Technical Experience)

4. WORK EXPERIENCE

4.1 ACADEMIC PROFESSIONAL EXPERIENCE

- ♦ **9/2012 up to date: Professor**, Dept. of Chemical & Petroleum Engineering, United Arab Emirates University (UAEU), Al Ain, UAE
- ♦ **Faculty Member, Dept. of Mechanical and Industrial Design Engineering (formerly: Dept. of Industrial Design Engineering)**, Technological Education Institute (T.E.I.) of Western Macedonia, Kozani, GREECE, (**6/1998 – date**)
- **9/2006 up to date: Professor**, Dept. of Industrial Design Engineering, Technological Education Institute (TEI) of Western Macedonia, Kozani, Greece
- **12/2001 up to 31-8-2006: Associate Professor**, Dept. of Industrial Design Engineering, Technological Education Institute (TEI) of Western Macedonia, Kozani, Greece
- **6/1998 up to 23-12-2001: Assistant Professor**, Dept. of Industrial Design Engineering, Technological Education Institute (TEI) of Western Macedonia, Kozani, Greece

Teaches courses: Intro to Chemical Engineering Principles (Material & Energy Balances), Engineering Thermodynamics, Mass Transfer, Materials & Design (i.e. Selection of materials in product design), Non-metallic Technical Materials, Manufacturing processes, Environmental Engineering Processes, Techno-economic Analysis/Assessment, Production Planning.

Conducts research related to nano-structured materials, mainly organic/inorganic hybrid materials such as polymer nanocomposites (production, characterization, property testing), their environmentally benign production and their use to new and/or innovative products, electrospinning, super-hydrophobic surfaces through polymer/nanoparticles. Applications of electrospun nanofibers in Chemical Reaction Engineering and Catalysis. Please, look at my web-page: www.nanohybrid.eu for further details.

4.2 UNIVERSITY SERVICE/LEADERSHIP

Administrative positions and service for the school:

- ♦ **Head of the Industrial Design Engineering Department** (2 terms, 9/1998 – 8/2002, 9/2008-d8/2012) – Responsible for the day-to-day running of the Department, hiring academic personnel, defining the Department's educational directions and priorities (the last two duties along with the rest faculty members)
- ♦ **Erasmus Socrates Responsible Professor** in the Industrial Design Engineering Department (9/2002 – 9/2008) – This faculty duty concerns the exchange of students within European Union (EU). It requires to organize the whole process of sending and receiving undergraduate and Master students in the program of studies.
- ♦ **Director of Studies** in the “Industrial Informatics” Continuing Higher Education Program of TEI of W. Macedonia (May to August of 1999) – Purely administrative duties with the everyday operation of the continuing education program.
- ♦ **Member of the “Special Accounts & Research Committee”** of the school (3/1999 – 3/2002) – Decisions on undertaking various projects and on research.
- ♦ **Member of the Technical Advisory Board** of the school (9/1999 – 9/2002) – Decisions about the built-environment development of the school

4.3 NON-ACADEMIC PROFESSIONAL EXPERIENCE

- ♦ Work as a ChE in Industry
Chemical Engineer, Hellenic Petroleum Company S.A., Greece (10/1995 – 6/'98)
 Worked as a Chemical Engineer in the Kalohori Oil Depot of the Hellenic Petroleum Company, where I was responsible for the successful daily operation of the depot. Over there, I was also involved in tracking the evolution of the oil energy sector.
- ♦ Researcher in Industry
Research Scientist, Eastman Kodak Co., USA (9/1992 – 9/1993)
 Joined the VCERL (Vacuum Coatings and Electrostatics Research Lab) of the Coatings Technology Department and conducted research in the **vacuum deposition/processing of organic materials** such as **dyes** and **polymers**. Responsible for the development of a vacuum manufacturing process for the production of dye coatings. Contributed to the **optimization** of the **electron-beam polymerization** process.

4.4 GRADUATE WORK & MILITARY SERVICE

- ♦ **Soldier of the VI Infantry Division** (Greek Armed Forces – 9/1993 – 2/1995)

- ♦ **Graduate Research Fellow**, Dept. of Chem. Eng., Univ. of Rochester, Rochester, NY, USA (9/1987 – 7/1992)
Investigated the **particle-size effects of supported-metal catalysts**. Employed **physical vapor deposition** to alternatively deposit layers of metal (Ni) and support (SiO₂) on Si wafers and produced multi-layered structures. Used **photolithography** and **etching** and created **micron-sized towers** from the initial multilayered structures. Designed and constructed a batch external recirculation reactor and **studied the hydrogenolysis of ethane and propane** and the **hydrogenation of ethylene** over the model edge surfaces of the micro-towers. Proved that the **catalytic size effects are not quantum effects**.
- ♦ **Teaching Assistant**, Dept. of Chem. Eng., Univ. of Rochester, Rochester, NY, USA (9/1987 – 5/1990)
Tutored Graduate and Undergraduate courses
Graduate: Classical and Statistical Thermodynamics, Phase Transitions
Undergraduate: Process Control and Design, Thermodynamics, Junior Chemical Engineering Lab, Computer Lab

5. LICENSING/REGISTRATION

Registered (chartered) Chemical Engineer in Greece since August 1987

6. GRANTS/PROJECTS

Has coordinated and/or participated in the following research projects:

No.	PROJECT TITLE	BUDGET	FUNDING AGENCY	DURATION
1	Assessment of Pipeline Cleanliness	690000 USD (my own part in the UAEU is 159000 USD)	GASCO Co. (An Abu Dhabi National Oil Co. for GAS)	2014-2016
2	Metal/Metal oxide-doped Carbon Nanofiber Sorbents for Desulfurization in Fuel Cell applications	56477 Euros (Euros =€)	NRF of UAE (NRF=National Research Foundation)	2013-2015
3	Optimized chitosan-based biopolymer nanofibrous materials for anti-tumor activity	24205 €	UAEU (=United Arab Emirates University)	2013-2015
4	Adding high-value to the heavy residuals of crude oil refining: Electrospinning of petroleum pitch for the fabrication of Carbon (C) nanofibers	6051 €	College of Engineering of UAEU	2013-2014
5	Simple and economical production of environmentally-friendly		Region of	

	nanocomposites which are made from renewable resources and are suitable for products of high added value (biomedical) and low added value (packaging)	84700 €	Western Macedonia & European Union (EU)	2005-2008
6	Study of the interactions between polymer coatings & substrates for the development of improved coatings for cultural heritage conservation	107265 €	Greek Ministry of Development & EU	2005-2008
7	Polymer nanocomposites as coatings for protection from electromagnetic radiation	117180 €	Greek Ministry of Development & EU	2005-2008
8	Polymeric composites with conductive inclusions: Their preparation and study of the relationship between composition-structure-electric and dielectric properties	108250 €	Greek Ministry of Education & EU	2005-2008
9	New polymer nanocomposites for electrostatic applications	70000 €	Greek Ministry of Education & EU	2005-2007
10	New advanced polymer nanocomposites through melt extrusion	57217 €	Greek Ministry of Education & EU	2004-2007
11	Advanced nanostructured coatings for adhesive applications	57025 €	Greek Ministry of Education & EU	2004-2007
12	Development of Solid Electrolyte Fuel Cells for the direct electrochemical oxidation/dehydrogenation of hydrocarbons	52351 €	Greek Ministry of Education & EU	2004-2007
13	NEar-edge X-ray Absorption spectroscopic investigations: Fe doped CoS₂	Transnational Access to Research Infrastructures	EU FP6 of EU	2006
14	A european resource directory for the design of secure urban environments	223200 €	EU	2002

15	Secure Urban Environments by Design	71882 €	EU	2001
16	New positive tone resist for deep X-ray lithography based on the concept of chemical amplification	Did not get the money, because I did not accept the grant	TMR-Marie Curie Research Training Grant	1996
17	The Capstone Project	120000 €	EU	2006-2008

Detailed information for the above projects follows (pgs 8-11):

6.1 RESEARCH PROJECTS funded by UNITED ARAB EMIRATES

1. **Co-Principal Investigator (co-PI)** of the research team for the project titled:

“Assessment of Pipeline Cleanliness”

This project was approved for funding and is funded by the GASCO Co., an Abu Dhabi National Oil Company (ADNOC) of the UAE that is responsible for Gas in Abu Dhabi. It is a collaborative effort between my University, the United Arab Emirates University, and the Petroleum Institute (PI) of ADNOC. The total budget is 690000 USD, but my own budget is 159000 USD. The project started in January 2013 (2014 – 2016).

2. **Head (Principal Investigator-PI)** of the research team for the project titled:

“Metal/Metal oxide-doped Carbon Nanofiber Sorbents for Desulfurization in Fuel Cell applications”

This project was approved for funding and was funded by the National Research Foundation (NRF) of UAE in collaboration with UAEU– Budget 56,477 Euros (280,000 Emirati Dirhams – AED). The project started in April 2013 (4/2013 – 4/2015).

3. **Head (Principal Investigator-PI)** of the research team for the project titled:

“Optimized chitosan-based biopolymer nanofibrous materials for anti-tumor activity”

This project was approved for funding and was funded by UAEU– Budget 24,205 Euros (120,000 Emirati Dirhams – AED). This is an Interdisciplinary Project between the College of Engineering and College of Medicine and Health Sciences of UAEU. The project started in September 2013 (9/2013 – 9/2015).

4. **Principal Investigator-PI** of the project titled:

“Adding high-value to the heavy residuals of crude oil refining: Electrospinning of petroleum pitch for the fabrication of Carbon (C) nanofibers”

This project was approved for funding and was funded by UAEU– Budget 6,051 Euros (30,000 Emirati Dirhams – AED). This is a Seeding Project from the

College of Engineering of UAEU. The project started in September 2013 (9/2013 – 9/2015).

6.2 RESEARCH PROJECTS funded by GREECE & EUROPEAN UNION

5. **Head (PI)** of the research team for the project titled:

“Simple and economical production of environmentally-friendly nanocomposites which are made from renewable resources and are suitable for products of high added value (biomedical) and low added value (packaging)”

This project was approved for funding and was funded by the Region of Western Macedonia and the European Union under the Basic Research Call of the Region of Western Macedonia Grant – Budget 84,700 Euros. The project has finished (2/2005 – 6/2008).

6. **Head (PI)** of the research team for the project titled:

“Study of the interactions between polymer coatings & substrates for the development of improved coatings for cultural heritage conservation”

This project was approved for funding by the Greek Secretariat for Research & Development (GSRT) (August 2005) and was funded by the Greek Ministry of Development and the European Union under the PENED 2003 Research Grant – Budget 107,265 Euros. The project has finished (12/2005 – 12/2008).

7. **Main Member (coPI)** of the research team for the project titled:

“Polymer nanocomposites as coatings for protection from electromagnetic radiation”

This project was approved for funding by the Greek Secretariat for Research & Development (GSRT) (September 2005) and was funded by the Greek Ministry of Development and the European Union under the PENED 2003 Research Grant – Budget 117,180 Euros. The project has finished (6/2005 – 12/2008)

8. **Main Member (coPI)** of the research team for the project titled:

“Polymeric composites with conductive inclusions: Their preparation and study of the relationship between composition-structure-electric and dielectric properties ”

This project was approved for funding by the Greek Ministry of Education (September 2004) and was funded by the Greek Ministry of Education and the European Union under the Pythagoras II Research Grant – Budget 117,180 Euros. The project has finished (1/2005 – 12/2008)

9. **Main Member (coPI)** of the research team for the project titled:

“New polymer nanocomposites for electrostatic applications”

This project was approved for funding (March 2005) and was funded by the Greek Ministry of Education (25%) and the European Union (75% - European Social Fund) under the Archimedes II Research Grant – Budget 70,000 Euros. The project has finished (1/2005 – 12/2007)

10. **Head (PI)** of the research team for the project titled:

“New advanced polymer nanocomposites through melt extrusion”

This project was funded by the Greek Ministry of Education (25%) and the European Union (75% - European Social Fund) under the Archimedes I Research Grant – Budget 57,217 Euros. The project has finished (1/2004 – 12/2007).

11. **Main Member (coPI)** of the research team for the project titled:

“Advanced nanostructured coatings for adhesive applications”

This project was funded by the Greek Ministry of Education (25%) and the European Union (75% - European Social Fund) under the Archimedes I Research Grant – Budget 57,025 Euros. The project has finished (1/2004 – 12/2007)

12. **Main Member (coPI)** of the research team for the project titled:

“Development of Solid Electrolyte Fuel Cells for the direct electrochemical oxidation/dehydrogenation of hydrocarbons”

This project was funded by the Greek Ministry of Education (25%) and the European Union (75% - European Social Fund) under the Archimedes I Research Grant – Budget 52,351 Euros. The project has finished (1/2004 – 12/2007).

6.3 RESEARCH PROJECTS funded by EUROPEAN UNION (EU) (participation in)

12. **Head (PI)** of the research team for the project titled:

“NEar-edge X-ray Absorption spectroscopic investigations: Fe doped CoS₂”

This is a TARI (=Transnational Access to Research Infrastructures) project in Frascati, Italy – Project No. 56, Acronym: NEXAF. (TARI , Contract N. RII3-CT-2004-506078, in the framework of FP6, Structuring the European Research Area (ERA), Integrated Infrastructures Initiative)

13. **(member of the project)** The University of Salford/Salford Centre for Research and Innovation and I (Dept. of Industrial Design Engineering) co-submitted a proposal to EU responding to the **Hippokrates 2002 call**. The title is:

‘A european resource directory for the design of secure urban environments”

We have **gotten the grant from EU** (funding of 223200 Euros) and have already completed the project

14. **(member of the project)** The University of Salford/Salford Centre for Research and Innovation and I (Dept. of Industrial Design Engineering) co-submitted proposal to EU responding to the **Hippokrates 2001 call**. The title is:

“Secure Urban Environments by Design”

We have **gotten the grant from EU** (funding of 71882.25 Euros) and have already completed the project

15. I **gained a TMR-Marie Curie Research Training Grant** (5th call for proposals published on 17/09/1996). The proposed research was titled:

“New positive tone resist for deep X-ray lithography based on the concept of chemical amplification”

The research would be done in the Institute für Microtechnik und Microelectronics (IMM) in Mainz am Frankfurt (Germany), but I did not go because I accepted a position of Assistant Professor in the school, where I am now.

6.4 NON-RESEARCH PROJECTS funded by EUROPEAN UNION (EU) (main member in)

16. Under the EU program ERASMUS, I and seven colleagues from seven different- EU country-schools submitted a proposal to EU that had to do with the preparation of the capstone project (Diploma Thesis) at the undergraduate and MSc level. The proposed project was titled:

“The Capstone Project”

We **got the grant from EU** (119000 Euros) and the Project Reference No. is 28155-IC-1-2005-1-UK-ERASMUS-MODUC-2. The project has been completed.

7. SCIENTIFIC REVIEWER

Reviewer in the following scientific journals (in alphabetical order):

- ♦ Crystal Engineering Communications
- ♦ European Polymer Journal (EPJ)
- ♦ Journal of Applied Polymer Science
- ♦ Journal of Colloid and Interface Science (JCIS)
- ♦ Journal of Material Science (JMSC)
- ♦ Journal of Physics: Conference Series (JPCS)
- ♦ Journal of the American Ceramic Society
- ♦ Journal of Vacuum Science and Technology (JVST)
- ♦ Polymer

8. OFFICIAL SCIENTIFIC EXCHANGE VISITS (on a competitive basis)

Under the **2008 call** (published in December of 2007) for **Scientific Visits of Greek faculty members and researchers to other countries** with which the Greek State has signed bilateral education programs, I did apply **to visit the Molecular and Industrial Biotechnology Lab** of the Chemical Engineering Department of UPC (=Universitat Politècnica de Catalunya) in Spain and was approved to visit the lab for 10 days. I did give two lectures there, they introduced me in their specific research techniques, while we decided to start a collaboration in the field of electrospun biopolymer nanocomposites.

9. INVITED SPEAKER

I was invited and gave a talk with the title: “Nanofibrous structure of electrospun mats based on biopolymer nanocomposites” to the **COST Action 868 “BIOTECHNICAL**

FUNCTIONALISATION OF RENEWABLE POLYMERIC MATERIALS” Joint Working Group and MC meeting, 2008, September 18-19, Varna, Bulgaria.

10. SCHOLARLY/PROFESSIONAL MEMBERSHIPS

Current or Former member of the following scholarly and professional organizations:

- ♦ American Institute of Chemical Engineers (AIChE)
- ♦ American Vacuum Society (AVS)
- ♦ Materials Research Society (MRS)
- ♦ American Catalysis Club

- ♦ Hellenic (=Greek) Biomaterials Society
- ♦ Hellenic Embiomechanics Society
- ♦ Balkan Environmental Association (BENA)

- ♦ Greek National Engineering Association (Technical Chamber of Greece)
- ♦ Greek National Association of Chemical Engineers

11. ADDITIONAL INFORMATION

11.1 GENERAL

- ♦ Organizer and Member of the Scientific Committee of European and Mediterranean Conferences/Meetings

- ♦ Reviewer in Greek Research Proposals

11.2 NATIONAL REPRESENTATIVE

- ♦ **Greek Member of the Management Committee (MC) of the European Initiative “Cooperation in Science and Technology” (COST) - Action MP1206 “ELECTROSPUN NANO-FIBRES FOR BIO INSPIRED COMPOSITE MATERIALS AND INNOVATIVE INDUSTRIAL APPLICATIONS”**

- ♦ **Greek Member of the Management Committee (MC) of the European Initiative “Cooperation in Science and Technology” (COST) - Action MP902 “COMPOSITES OF INORGANIC NANOTUBES & POLYMERS”**

- ♦ **Greek Member of the Management Committee (MC) of the European Initiative “Cooperation in Science and Technology” (COST) - Action 868 “BIOTECHNICAL FUNCTIONALISATION OF RENEWABLE POLYMERIC MATERIALS”**

12. PUBLICATIONS/PRESENTATIONS

12.1 BOOKS

I have translated into Greek the following book:

“Materials and Design – The art and science of material selection in product design”

written by Mike Ashby & Kara Johnson, 1st edition, 2002, Butterworth-Heinemann, ISBN: 0 7506 5554 2 (This book is being used as a textbook by 4 universities in Greece).

12.2 REFERRED ARTICLES in JOURNALS

1. Apostolos Baklavaridis, **Ioannis Zuburtikudis**, Costas Panayiotou, (2014), “Porous composite structures derived from multiphase polymer blends”, *Polymer Engineering and Science*, accepted for publication
2. E. Panagiotidou, C. Konidaris, A. Baklavaridis, **I. Zuburtikudis**, D. Achilias and P. Mitlianga, (2014), "A Simple Route for Purifying Extracellular Poly(3-hydroxybutyrate)-depolymerase from *Penicillium pinophilum*", *Enzyme Research*, vol. 2014, Article ID 159809, doi:10.1155/2014/159809.
3. Enhong Cao, **Ioannis Zuburtikudis**, Noor Al-Rifai, Mark Roydhouse, and Asterios Gavrilidis, (2014), “Enhanced Performance of Oxidation of Rosalva (9-decen-1-ol) to Costenal (9 decenal) on Porous Silicon-Supported Silver Catalyst in a Microstructured Reactor”, *Processes*, 2, 141-157
4. U. Chandra, **I. Zuburtikudis**, G. Parthasarathy, B. Sreedhar , (2013), “High-pressure electrical resistivity and Mössbauer spectroscopic studies on narrow band Co_{0.8}Fe_{0.2}S₂ nanoparticles up to 8 GPa”, *Phase Transitions*, DOI:10.1080/01411594.2013.854899
5. A. Tsimliaraki, I. Tsivintzelis, S.I. Marras, **I. Zuburtikudis**, C. Panayiotou, (2013), “Foaming of PCL/clay nanocomposites with supercritical CO₂ mixtures: The effect of nanocomposite fabrication route on the clay dispersion and the final porous structure”, *The Journal of Supercritical Fluids*, 81, Volume 81, 86–91.
6. Mouzakis, D. E., Papanicolaou, G. C., Giannadakis, K. and **Zuburtikudis, I.** (2013), “On the Toughness Response of iPP and sPP/MWNT Nanocomposites”, *Strain*, 49: 348–353. doi: 10.1111/str.12041
7. S.I. Marras and **I. Zuburtikudis**, (2012), “Structure and thermal behavior of poly(L-lactic acid) clay nanocomposites: Effect of preparation method as a function of the nanofiller modification level”, *J. Appl. Polym. Sci.*, 124, 2999–3006, doi: 10.1002/app.35328
8. A. Tsimliaraki, **I. Zuburtikudis**, S.I. Marras, C. Panayiotou, (2011), "Optimizing the nanofibrous morphology of electrospun PBSA/clay nanocomposites and revealing the role of the fibre nano-dimension on the attained material properties", *Polymer International*, 60, 859–871, doi: 10.1002/pi.3034
9. A. Tsimliaraki, I. Tsivintzelis, S.I. Marras, **I. Zuburtikudis**, C. Panayiotou, (2011), "The effect of surface chemistry and nanoclay loading on the microcellular structure of porous poly(D,L-lactic acid) nanocomposites", *J. of Supercritical Fluids*, 57, 278–287

10. D. S. Achilias, E. Panayotidou, **I. Zuburtikudis**, (2011), "Thermal degradation kinetics and isoconversional analysis of biodegradable poly(3-hydroxybutyrate)/organomodified montmorillonite nanocomposites", *Thermochimica Acta*, 514, Issues 1-2, 58-66
11. S.I. Marras, **I. Zuburtikudis**, C. Panayiotou, (2010), "Solution casting vs. melt compounding: Effect of fabrication route on the structure and thermal behavior of poly(L-lactic acid) clay nanocomposites" *Journal of Materials Science*, 45, 6474–6480
12. E. Pollatos, E. Logakis, P. Chatzigeorgiou, V. Peoglos, **I. Zuburtikudis**, M. Gjoka, K. Viras and P. Pissis, (2010), "Morphological, Thermal, and Electrical Characterization of Syndiotactic Polypropylene/Multiwalled Carbon Nanotube Composites", *Journal of Macromolecular Science R, Part B: Physics*, 49:1044–1056
13. Stella K. Papadopoulou, Ioannis Karapanagiotis, **Ioannis Zuburtikudis** and Costas Panayiotou, (2010), Thermodynamic characterization of poly(2,2,3,3,3-pentafluoropropyl methacrylate), *Journal of Polymer Science Part B: Polymer Physics*, 48, 1826-1833
14. A. Tsimpliaraki, S. Svinterikos, C. Panayiotou, S.I. Marras, **I. Zuburtikudis**, and L. Papadopoulou, (2010), "PBSA/layered silicate nanocomposites and the role of nanoclay on their electrospun fibrous structure", *International Journal of Nanomanufacturing*, 6 (1/2/3/4), 291-299
15. E. Logakis, E. Pollatos, Ch. Pandis, V. Peoglos, **I. Zuburtikudis**, C.G. Delidis, A. Vatalis, M. Gjoka, E. Syskakis, K. Viras and P. Pissis, (2010), "Structure–property relationships in isotactic polypropylene/multi-walled carbon nanotubes nanocomposites", *Composites Science and Technology, Compos. Sci. Technol.*, 70, 328
16. Padopoulou, S.K., Dritsas, G., Karapanagiotis, I., **Zuburtikudis, I.**, Panayiotou, C., (2010), Surface characterization of poly(2,2,3,3,3-pentafluoropropyl methacrylate) by inverse gas chromatography and contact angle measurements, *European Polymer Journal*, 46, 202-208
17. Manoudis P., Karapanagiotis I., Tsakalof A., **Zuburtikudis I.**, Kolinkeova B., Panayiotou C. P, (2009), 'Superhydrophobic films for the protection of outdoors cultural heritage assets', *Applied Physics A: Materials Science and Processing*, 97 (2), 351-360
18. P. N. Manoudis, I. Karapanagiotis, A. Tsakalof, **I. Zuburtikudis**, B. Kolinkeová and C. Panayiotou, (2009), Surface Properties of Superhydrophobic Coatings for Stone Protection, *Journal of Nano Research*, 8, 23-33
19. S.I. Marras, A. Tsimpliaraki, **I. Zuburtikudis**, C. Panayiotou, (2009), "Morphological, thermal and mechanical characteristics of polymer/layered silicate nanocomposites: The role of filler modification level, *Polymer Engineering and Science*, 49 (6), 1206-1217
20. A. Tsimpliaraki, S. Svinterikos, **I. Zuburtikudis**, S.I. Marras and C. Panayiotou, (2009) "Nanofibrous structure of non-woven mats of electrospun biodegradable polymer nanocomposites – A Design of Experiments (DoE) study" *Industrial & Engineering Chemistry Research*, 48 (9), 4365-4374

21. Manoudis P., Tsakalof A., Karapanagiotis I., **Zuburtikudis I.**, Panayiotou C. P, (2009), 'Fabrication of super-hydrophobic surfaces for enhanced stone protection', *Surface and Coatings Technology*, 203 (issues 10-11), 1322-1328
22. Manoudis P., Karapanagiotis I., Tsakalof A., **Zuburtikudis I.**, Panayiotou C., (2008), 'Superhydrophobic Composite Films Produced on Various Substrates', *Langmuir*, 24 (19), pp 11225-11232
23. S.I. Marras, K. P. Kladi, I. Tsvintzelis, **I. Zuburtikudis**, C. Panayiotou, (2008), "Biodegradable Polymer Nanocomposites: The Role of Nanoclays on the Thermomechanical Characteristics and the Electrospun Fibrous Structure", *Acta Biomaterialia*, 4, 756-765
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