

CURRICULUM VITAE OF PROF. NIKOLAOS E. ZAFEIROPOULOS

PERSONAL DETAILS

SURNAME: ZAFEIROPOULOS
 FORENAMES: NIKOLAOS EVANGELOS
 NATIONALITY: GREEK
 WORK ADDRESS: DEPARTMENT OF MATERIALS SCIENCE
 & ENGINEERING, UNIVERSITY OF
 IOANNINA, DOUROUTI CAMPUS,
 IOANNINA 45100, GREECE
 WORK TELEPHONE NUMBER: 0030-26510-09002
 E-MAIL ADDRESSES: nzafirop@.uoi.gr

EDUCATION

1997 - 2001 IMPERIAL COLLEGE OF SCIENCE,
 TECHNOLOGY AND MEDICINE,
 CENTRE FOR COMPOSITE MATERIALS
 PhD in Materials Science
 Thesis title: Engineering and characterisation
 of the interface in flax/polypropylene composite
 materials
 Sponsored by the EU (Marie Curie Fellowship)
 Supervisors: Dr Caroline A. Baillie, Prof. Frank
 L. Matthews

1992 - 1997 NATIONAL TECHNICAL UNIVERSITY
 OF ATHENS,
 DEPARTMENT OF CHEMICAL
 ENGINEERING
 MEng in Chemical Engineering
 GPA: 8.33/10.0 (Very Good)
 Rank in class: 11th out of 170
 Dissertation Thesis title: Characterisation of
 coated Glass fibres received from recycled
 thermoplastic composite materials (in Greek)
 Supervisor: Prof. Costas D. Papaspyrides

OTHER ACADEMIC AND TRAINING QUALIFICATIONS

1997 Postgraduate Course “Introduction to
 Composite Materials”, Centre for Composite
 Materials, Imperial College of Science,
 Technology and Medicine.

2000 Postgraduate Course “Finite Element

Analysis of Composite Materials”, Centre for Composite Materials, Imperial College of Science, Technology and Medicine.

TEACHING EXPERIENCE

1998 - 2000	Laboratory Demonstrator at the course “Computing” of 1 st year Materials Department, Imperial College
1998 – 2000	Laboratory Demonstrator at the course “Polymer Science and Engineering” of 2 nd year Materials Department, Imperial College
1998 – 2000	Laboratory Demonstrator at the course “Analytical Chemistry” of 1 st year Earth Resources Engineering, Imperial College
2002 – 2008	Physical Chemistry of Polymers, Chemistry Department, Technical University of Dresden (20 hours lectures per semester on topics of Polymer Physics)
2005- 2008	Experimental Techniques for Characterisation of Nanomaterials, European MSc course on ‘Polymer Based Nanomaterials’, University of Perugia, Italy. (20 hours Lectures on experimental techniques for Polymer Materials Characterisation)- I am also member of the organising and scientific committee for the MSc course. More details about the course can be found at http://www.nanofun-poly.com/docs/06,00,00-01-master.pdf
2006- 2012	‘Green’ Composites and Nanocomposites, MSc course on ‘Materials Engineering’, University of the Basque Country (Spain). 12 hours lectures per year.
2008-	Chemical Thermodynamics, 2 nd year Department of Materials Science and Engineering, University of Ioannina. 4 hours lectures per week. Winter Semester
2008- 2011	Chemistry and Engineering of Wood and Related Materials, 4 th year Department of Materials Science and Engineering, University of Ioannina. 3 hours lectures per week. Winter Semester
2008-	Structure Characterisation with X-ray Techniques, 4 th year Department of Materials Science and Engineering, University of Ioannina. 3 hours lectures per week. Winter Semester (jointly with Assoc. Prof. Anagnostopoulos)
2008-	Polymer Materials – Special Topics, 5 th year Department of Materials Science and

- 2008- Engineering, University of Ioannina. 3 hours lectures per week. Winter Semester (jointly with Prof. Avgeropoulos and Dr Karabela)
Polymers and Related Materials of Controlled Morphology, 5th year Department of Materials Science and Engineering, University of Ioannina. 3 hours lectures per week. Winter Semester (jointly with Prof. Avgeropoulos and Dr Karabela)
- 2009- Polymer Engineering, 4th year Department of Materials Science and Engineering, University of Ioannina, 4 hours lectures per week. Summer Semester
- 2009- Materials Laboratory V (Polymers), 4th year Department of Materials Science and Engineering, University of Ioannina, 12 hours lab instruction/exercises per week. Summer Semester (jointly with Prof. Avgeropoulos and Dr Karabela)

PROFESSIONAL QUALIFICATIONS

- 2008 Member of the American Chemical Society
2017 Member of the Technical Chamber of Greece

PROFESSIONAL EXPERIENCE

JUNE 1993 - SEPTEMBER 1993

ACHAIA CLAUSS S. A.
Wines and Spirits, Patras, Greece

Laboratory Assistant at the Department of Chemical Analysis
Main responsibilities included chemical analysis of wine and wine distillates through gas chromatography (GC) methods and quality control

JUNE 1994 - SEPTEMBER 1994

HELLENIC TARTARICA S. A.
Distillery - Tartaric Calcium, Kalamata, Greece

Laboratory Assistant at the Department of Chemical Analysis (wine- distillates and wine-sludge analysis).
Main responsibilities included chemical analysis of wine sludge for determination of tartaric acid and also chemical analysis of wine distillates through gas chromatography (GC)

SEPTEMBER 1996 - OCTOBER 1996

VARVITSIOTIS S. A., Corinth, Greece
Wines and Spirits Distillery

Assistant Production Manager

Main responsibility was the supervision of the distillation and condensation units (approximately 10 workers). I also received training on the fermentation process and quality control of wine and wine distillates (brandy, Ouzo and ethanol).

OCTOBER 2000 – APRIL 2001

IMPERIAL COLLEGE OF SCIENCE,
TECHNOLOGY AND MEDICINE,
MATERIALS DEPARTMENT

Post-Doctoral Research Associate

Subject: Thermal Degradation of Cellulose
Fibres.

Supervisor: Dr Caroline Baillie

JUNE 2001 - AUGUST 2002

LEIBNIZ-INSTITUT FÜR
POLYMERFORSCHUNG DRESDEN eV
DEPARTMENT OF STRUCTURE AND
MECHANICS

Post-doctoral Research Fellow

Subject: Investigation of the Interface in
Advanced Polymer blends based on Epoxy-sPS
by means of Scattering Techniques

Supervisor: Prof. Manfred Stamm

SEPTEMBER 2002- MAY 2008

LEIBNIZ-INSTITUT FÜR
POLYMERFORSCHUNG DRESDEN eV
DEPARTMENT OF NANOSTRUCTURED
MATERIALS

Staff Scientist and Group Leader

Main Duties: Project leading and management (writing and submitting projects, managing projects, etc.), PhD students and Post-doc supervision, research effort in synchrotron x-ray scattering for polymer science, multifunctional nanohybrids, nanocomposites, composite lattices and microgels, nanostructured polymers.

Director of the SAXS laboratory

JUNE 2008 – MAY 2015

UNIVERSITY OF IOANNINA

DEPARTMENT OF MATERIALS SCIENCE
& ENGINEERING
Assistant Professor of Polymer Engineering
(tenured 29/1/2012)

MAY 2015 – SEPTEMBER 2019

UNIVERSITY OF IOANNINA
DEPARTMENT OF MATERIALS SCIENCE
& ENGINEERING
Associate Professor of Polymer Engineering

SEPTEMBER 2019 -

UNIVERSITY OF IOANNINA
DEPARTMENT OF MATERIALS SCIENCE
& ENGINEERING
Professor of Polymer Engineering

Main research topics:

- Development of microfocus synchrotron x-ray scattering techniques for studying deformation processes of polymers
- Deformation and fracture in semicrystalline polymers
- Interfaces in composite materials
- Interfaces in polymer blends
- Characterisation of Nanocomposites and Nanostructured Materials
- Block copolymer based nanomaterials
- Magnetic nanomaterials
- Development of eco-composites and eco-nanocomposites
- Functionalisation of nanoparticles via ATRP, NMRP and grafting-to methods
- Polymer Blends
- Development of novel nanohybrid materials
- Hydrogels in macro, micro and nano – dimensions
- Hydrogels and polymer latexes
- Development of artificial skin from polysaccharides and collagen blends
- Isolation of fish collagen from fish wastes
- Development of nanostructured epoxies for use in concrete structures repairs

Group Members

Mr Andreas Karydis – Messinis, PhD student working with Development and Characterisation of Hydrogel Scaffolds for Biomedical applications : start date 31/1/2018

Ms Artemis Moustaka, PhD student working on drug delivery of interferone with polymer colloids for multiple sclerosis (in collaboration with Prof. G. Thyfronitis from Biology Dept.): start date 1/9/2020

Former Group Members

- Dr Jacobus Arno Schut, former PhD student working on polymer blends. PhD defence –December 2003 (1/9/2000 – 18/12/2003), Title of Thesis: Blends of Syndiotactic Polystyrene and Thermoset Epoxy Resin: Engineering and Characterisation, Presently Senior researcher in Fuji corporation (polymer division), in the Netherlands. Co-supervised with Profs J.-F. Gerard, M. Dumon (INSA-Lyon) and Prof. M. Stamm (IPF Dresden)
- Dr Richard James Davies, former post-doc jointly with ESRF. Presently second beamline scientist at ID13-ESRF, France.
- Dr Sondes Trabelsi, former post-doc working in the BASF and the NBB projects, presently working at Institute for Synchrotron Radiation (ANKA), Research Centre of Karlsruhe, Germany.
- Ms Julia Henle, former MSc student (1/9/2003-31/8/2004). Title: Deformation of Polyolefins with Synchrotron x-ray Scattering, Presently PhD student at the Technical University Dresden (Group of Prof. Stefan Kaskel), Germany.
- Dr Vera Tserki, former PhD guest student from the Aristotle University of Thessaloniki (Greece). Presently working at the department of Forensic Analysis, Greek Police Force, Greece.
- Dr Marco Amici, former PhD student working on nanohybrids. PhD defence – January 2006 (1/10/2002 – 9/1/2006). Title: Development and Characterisation of Nanohybrids based on Polyhedral Oligomeric Polysilsquioxanes (POSS) and Methacrylate Matrices, Presently working as scientist at Rhodia (Lyon, France). Co-supervision Profs J.-F. Gerard, J. Galy (INSA-Lyon) and Prof. M. Stamm (IPF Dresden)
- Dr Iñaki Garcia Alonso, former PhD student. PhD Defence: November 2007 (1/12/2005-27/11/2007) Title: Nanostructured Composites using Polymer Brushes-Modified Magnetic Nanoparticles and Self-Assembled Block Copolymers Jointly with the University of Basque Country and the University of Perugia. Presently working at CIDETEC in San Sebastian, Spain. Co supervision with Profs. I. Mondragon (UPV/EHU) and J. Kenny (U. Perugia)
- Ms Caterina Serafinelli, former MSc thesis student. MSc Defence – January 2007. (1/6/2006-31/10/2006). Title: Synthesis and Characterisation of Novel Magnetic Nanostructures with Biological Functionalities. Presently PhD Student at the university of Seville (Spain)
- Mr Gizlain Azzoda, former BSc student on the preparation of nanostructured blends with advanced fracture toughness properties, Erasmus Student from university Claude Bernard Lyon, France
- Mr Zhengzhing Fan, former BSc student in the field of magnetic nanohybrids based on block copolymer matrices. Presently PhD student in the group of Prof. Manfred Stamm (IPF Dresden).
- Dr Jorge Rubio Retama, former post-doc working on magnetic nanomaterials and the preparation of novel nanohybrids. Presently Assistant Professor in the dept. of Pharmacy of the Complutence University in Madrid, Spain.
- Dr Mukesh Agrawal, former PhD student on the topic of hybrid composite sub-micron particles. PhD Defence – September 2008 (1/7/2005-19/9/2008). Title: Design, Fabrication and Applications of Organic-Inorganic Hybrid Systems. Presently working in IPF as post-doc. Co-supervised with Prof. M. Stamm (IPF Dresden)

- Dr Andriy Horechiy, former PhD student on the preparation of hybrid nanocomposites based on block copolymer matrices with bottom up approaches. Co-supervised with Prof. M. Stamm (IPF Dresden): Start date : 1/5/2007. PhD Defence – July 2011 Title: Ordered structures from nanoparticle/block copolymer hybrids: Ex-situ approaches towards binary and ternary nanocomposites.
- Dr Georgios Zapsas, former PhD student working on the preparation of multifunctional materials with nanoparticles and block copolymers. Start date: 6/3/2009. Examination date 7/7/2015. Presently working as Research Scientist in KAUST, Saudi Arabia
- Dr Dimitris Moshovas, former PhD student working on the preparation and characterisation of functionalised nanoparticles with polymer brushes. Start date: 6/3/2009. Examination date 26/5/2015. Present working as Postdoctoral Researcher in DMSE, University of Ioannina
- Dr Apostolos Karanastasis, former PhD student working on microgels modified with nanoparticles. Examination date 29/9/2016. Presently working as Postdoctoral Researcher at Rensselaer Polytechnic Institute.

PROJECT PARTICIPATION & MANAGEMENT

CRAFT THERMOCELL: Development of thermoplastic composites based on upgraded lingo-cellulose fibres for improved durability and their processing for components.

EU funded research project
(Contract number BRST-CT-5474)
Budget: 120000 EUR
Duration: 1999-2001

RTN POLYNETSET: Advanced Thermoset- based polymer blends with controlled new molecular architectures and morphologies

EU funded research training network
(Contract number: HPRN-CT2000-00146)
Budget: 192000 EUR
Duration: 2000-2004

RTN NBB-HYBRIDS: Hybrid Nanocomposites from Functional Nanobuilding Blocks (Principal Investigator)

EU funded research training network
(Contract number: HPRN-CT-2002-00306)
Budget: 192500 EUR
Duration: 2002-2006

Time-resolved microstructural investigations by means of small angle x-ray scattering. (Principal Investigator)

Industrial Project funded by BASF AG. Ludwigshafen, Germany
Budget: 90000 EUR

Duration: 2003-2005

Scanning X-ray Microscopy for Polymer Applications (Principal Investigator)

Joint project with the European Synchrotron Radiation Facility (SC1099).
Budget: 90000 EUR for Personnel costs and 200000 EUR for measuring time,
traveling and the development of new equipment
Duration: 2003-2005

Network of Excellence NANOFUN: Nanofunctional materials-structure properties relations

EU funded network of Excellence
Budget: 235000 EUR
Duration: 2004-2007

Textilverstärkte Verbundkomponenten für funktionsintegrierende Mischbauweisen bei komplexen Leichtbauanwendungen, Projektbereich A1: Online Commingling-Hybridspinnen von GF-/Polymergarnen

DFG funded programme (Deutsche Forschungsgemeinschaft) (SFB 639)
Budget: 90000 €
Duration: 2002-2006

POCO: Carbon Nanotube Confinement Strategies to Develop Novel Polymer Matrix Composites (Principal Investigator – of the part at IPF Dresden)

EU funded Large Project
Budget: 472000 EUR
Duration: 2008-2012

Refurbishment of Polymer Engineering Lab (Principal Investigator)

Univeristy of Ioannina funded project
Budget: 190000 EUR
Start date: 1/9/2010

Installation of a TEM at the University of Ioannina

EU & Greece (Region of Epirus) funded project
Budget: 2,000,000 EUR
Start date: 1/10/2010

Heracletos II Doctoral Research Support (Principal Investigator)

Ministry of Education funded project for doctoral research (36 months)
Budget: 44000 EUR
Start date 1/9/2011

Thales National Research Support Initiative (Polymer Nanocomposites)

Ministry of Education funded project
Budget: 68000 (600000 total (Aristotle University of Thessaloniki, University of Ioannina, University of Western Greece)
Start Date 1/6/2012

OTHER ACTIVITIES

Referee for Advanced Composites Letters, Applied Spectroscopy Letters, Bioresources Technology, Carbohydrate Polymers, Composites Part A, Composites Science and Technology, Composite Interfaces, European Polymer Journal, Journal of Applied Crystallography, Journal of Applied Polymer Science, Journal of Colloid and Interface Science, Journal of Materials Science, Journal of Materials Science Letters, Journal of Polymer Science Part A: Polymer Chemistry, Journal of Polymer Science Part B: Polymer Physics, Macromolecules, Macromolecular Chemistry and Physics, Macromolecular Materials Engineering, Macromolecular Rapid Communications, Macromolecular Symposia, Materials Science and Engineering B, Polymer, Polymer Engineering, (more than 200 articles refereed since 2000)

Chairman of the ‘Applied Materials and Engineering’ review panel for beamtime applications of the ESRF (2005- 2011)

Reviewer for the FP6 and FP7 programmes of the EU (nanomaterials topic) (since 2004)

Reviewer for the General Secretariat of Research in Greece. (since 2004)

Reviewer for the Austrian Science Foundation (since 2006)

Reviewer for the Portuguese Foundation of Science and Technology (since 2009)

Reviewer for the French Research Agency (L' Agence Nationale de la Recherche (ANR)) (since 2011)

Member of the committee of External experts for the establishment of the European Centre of Soft Condensed Matter in Grenoble, France

Member of the Editorial Board of **The Journal of Nanoparticles** from Hindawi Publishing Corporation <http://www.hindawi.com/journals/nanoparticles/>

Member of the Editorial Board of **ISRN Polymer Science** from Hindawi Publishing Corporation <http://www.isrn.com/journals/ps/>

Member of the Board of Trustees of the Centre of Traditional Industry of Ioannina as representative of the Greek Ministry of Development (Since 2010)

Guest Editor Journal of Polymer Science Part B: Polymer Physics, special issue in honour of Prof. Manfred Stamm's 60th Birthday.

Referee and Member of the Jury for the following PhD theses:

- **Mr Aitor Arbelaiz Garmendia**, Composites based on renewable natural flax fibres and thermoplastic matrices, University of the Basque Country, Spain (2006)
- **Ms Elena Serrano Toregrosa**, Nanostructured thermosetting systems by modification of an epoxy resin with epoxidized styrene-butadiene block copolymers, University of the Basque Country, Spain (2006)
- **Ms Sara Maiez-Tribut**, Relations entre la structure d'un copolymère à blocs et la nanostructuration d'un polymère réticulé, INSA de Lyon, France (2007)
- **Ms Pascale Valot**, Développement de nouveaux supports textiles contenant des microcapsules de principe actif médicamenteux pour orthèses, Université Claude Bernard de Lyon 1, France (2007)
- **Ms Miren Blanco Miguel**, Materiales termoestables basados en resinas epoxi y mezclas de aminas de diferente funcionalidad modificadas con PMMA. Cinética de curado, morfología y propiedades finales, University of the Basque Country, Spain (2008)
- **Ms Sofia Rangou**, Synthesis, Molecular and Morphological Characterisation of non-Linear Triblock Copolymers (heteroarm stars - dendrimers) of Large Mw, University of Ioannina, (2009)
- **Mr Moyeenundin Ahmad Sawpan**, Mechanical Performance of industrial Hemp Fibre Reinforced Polylactide and unsaturated Polyester Composites, University of Waikato, New Zealand (2010)
- **Ms Aylin Karakuscu**, Synthesis and Characterization of Luminescent Nanostructured SiOC Thin Film, University of Trento, Italy (2010)
- **Mr Luca Facchini**, Microstructure and Mechanical Properties of Biomedical Alloys produced by Rapid Manufacturing Techniques, University of Trento, Italy (2010)
- **Mr Constantinos Papavasiliou**, Fabrication of Potential Energy Functions of Structural Molecules of Asymmetric Polymer Membranes and other Systems, University of Ioannina, (2010)
- **Mr Nikolaos Politakos**, Molecular and Morphological Characterisation of Block Copolymers with Complex Architecture with one block being Polydimethylsiloxane or Polydienes of varying Microstructure, University of Ioannina, (2011)
- **Mr Prokopis Georgopoulos**, Synthesis, Characterisation, Properties and Applications of Polymers with Complex Architecture with one block being Polydimethylsiloxane, University of Ioannina, (2011)
- **Ms Eftichia Grana**, Synthesis, Molecular and Morphological Characterization of Complex Architecture Conductive Polymers, University of Ioannina, (2011)
- **Mr Konstantinos Misichronis**, Synthesis, Molecular and Morphological Characterization of Linear and Complex Architecture Block Copolymers Consisting of Poly(1,3-cyclohexadiene), University of Ioannina, (2012)

NATIONAL AND INTERNATIONAL COLLABORATIONS

- Prof. Jean-François Gérard, INSA-Lyon, FRANCE.
- Dr. Libor Matějka, Institute of Macromolecular Chemistry – Prague, CZECH REPUBLIC.

- Dr. Clément Sanchez, Université Pierre et Marie Curie (UPMC) – Paris, FRANCE.
- Dr. Michael Popall, Fraunhofer - Institut für Silicatforschung (ISC)– Würzburg, GERMANY.
- Prof. Sandra Diré, University of Trento, ITALY.
- Prof. Jose M. Kenny, University of Perugia, ITALY.
- Dr Christian Riekkel, ID13, ESRF, FRANCE.
- Dr Richard J. Davies, ID13, ESRF, FRANCE.
- Prof. Alexander Korshunsky, Oxford University, UK.
- Prof. Costas Galiotis, Department of Materials, University of Patras, GREECE.
- Prof. Costas Tsitsilianis, Department of Chemical Engineering, University of Patras, GREECE.
- Prof. Costas Panayiotou, Department of Chemical Engineering, Aristotle University of Thessaloniki, GREECE.
- Prof. Jorge Rubio Retama, Complutense University of Madrid, SPAIN

SPECIAL SKILLS

X-ray scattering techniques: WAXS, SAXS, and synchrotron WAXS and SAXS.

Neutron scattering: SANS, NR.

Surface Analysis Techniques: ToF-SIMS, XPS, IGC, Contact Angle measurements.

Thermal Analysis Techniques: DTA, TGA, DSC, DMTA

Spectroscopy Techniques: FTIR, NIR, Raman

Various Characterisation Techniques: SEM, TEM, AFM.

Mechanical Testing: Single Fibre Fragmentation, Tensile Testing, Environmental Testing, Impact, Rheology

Manufacturing: Compression Moulding, Extrusion, Thermopressing, Internal Mixing, Injection Moulding

Polymerisation Techniques: ATRP, NMRP

DISTINCTIONS

1997

NATIONAL TECHNICAL UNIVERSITY
OF ATHENS
DEPARTMENT OF CHEMICAL

ENGINEERING

Prize awarded as second best 4th year student.

- 1999 TECHNICAL CHAMBER OF GREECE
Prize awarded as second best 5th year Chemical Engineering student. In Greece
- 1998 EMPIRIKOS FOUNDATION GREECE
Prize awarded (10000 Euros) for novel research
- 2004 Distinguished Greek Scientist Living Abroad, Ministry of Defence, Greece
- 2006 Included in the Marquis Who's Who in Science and Engineering[®] (Edition 2006-2007 and subsequent editions)
- 2006 Ramon y Cajal fellow of the Spanish Government in the topic of Materials (fellowship denied)

PERSONAL INTERESTS

Chess, Cinema, Theatre, Hiking, Mountaineering, Wine, History, Poetry, Epistemology. Politics.

LIST OF PUBLICATIONS**In Refereed Journals**

1. **N. E. Zafeiropoulos**, P. C. Varelidis, C. D. Papaspyrides, T. Stern and G. Marom, Characterisation of LDPE Residual Matrix Deposited on Glass Fibres by a Dissolution/Reprecipitation Recycling Process, Composites Part A, 30, 1999, 831-838
2. **N. E. Zafeiropoulos***, C. A. Baillie and F. L. Matthews, A Study of the Effect of Surface Treatments on the Thermal Stability of Flax Fibres, Advanced Composites Letters, 9(4), 2000, 291-294
3. **N. E. Zafeiropoulos***, C. A. Baillie and F. L. Matthews, A Study of Transcrystallinity and its Effect on the Interface in Flax Fibre Reinforced Composite Materials, Composites Part A, 32, 2001, 527-545
4. S.J. Eichhorn, C. A. Baillie and **N. Zafeiropoulos**, L.Y. Mwaikambo and M.P. Ansell, A. Dufresne, K.M. Entwistle, P.J. Herrera-Franco and G.C. Escamilla, L. Groom, M. Hughes and C. Hill, T.G. Rials, P.M. Wild, Current International Research Into Cellulosic Fibres and Composites, Journal of Materials Science, 36(9), 2001, 2107-2131
5. **N. E. Zafeiropoulos***, C. A. Baillie and F. L. Matthews, The Effect of Transcrystallinity on the Interface of Green Flax/Polypropylene Composite Materials, Advanced Composites Letters, 10(5), 2001, 229-236

6. **N. E. Zafeiropoulos***, C. A. Baillie and F. L. Matthews, An Investigation of the Effect of Processing conditions on the Interface of Flax/Polypropylene Composites, Advanced Composites Letters, 10(6), 2001, 291-295
7. **N. E. Zafeiropoulos***, The Application of Weibull Statistics on Fragmentation Data, Advanced Composites Letters, 11(2), 2002, 69-71
8. **N. E. Zafeiropoulos***, D. R. Williams, C. A. Baillie and F. L. Matthews, Engineering and Characterisation of the Interface in Flax fibre/Polypropylene Composite materials Part I: Development and Investigation of Surface Treatments, Composites Part A, 33, 2002, 1083-1093
9. **N. E. Zafeiropoulos***, C. A. Baillie and J. M. Hodgkinson, Engineering and Characterisation of the Interface in Flax fibre/Polypropylene Composite materials Part II: The Effect of Surface Treatments on the Interface, Composites Part A, 33, 2002, 1183-1188
10. **N. E. Zafeiropoulos***, J. Schut, A. Pohlers, M. Stamm, and J.-F. Gerard, An Investigation of sPS/Epoxy Blends by Means of X-ray Scattering Techniques, Macromolecular Symposia, 198, 2003, 345-353
11. **N. E. Zafeiropoulos***, P. E. Vickers, C. A. Baillie and J. F. Watts, An Experimental Investigation of Modified and Unmodified Flax Fibres by means of XPS, ToF-SIMS and FTIR, Journal of Materials Science, 38(19), 2003, 3903-3914
12. K. Schneider, **N. E. Zafeiropoulos***, L. Häußler, M. Stamm, High-Throughput Screening of the Influence of Thermal Treatments on the Mechanical Properties of Semicrystalline Polymers: A Case Study iPP, Macromolecular Rapid Communications, 25, 2004, 355-359
13. R. J. Davies, **N. E. Zafeiropoulos***, K. Schneider, S. V. Roth, M. Burghammer, C. Riekkel, J. Kotek, and M. Stamm, The use of Synchrotron X-ray Scattering coupled with *in situ* Mechanical Testing for studying Deformation and Structural change in Isotactic Polypropylene, Colloid Polymer Science, 282, 2004, 854-866
14. L. Figiel, **N. E. Zafeiropoulos**, and B. Lauke, Numerical Analysis of the Elastic Constants' Effects on the Delamination Propagation in a Curved Layered Composite Beam under Cyclic Shear Loading, Composites Part A, 36, 2005, 153-162
15. V. Tserki, C. Panayiotou and **N. E. Zafeiropoulos***, A study of the Effect of Acetylation and Propionylation on the Interface of Natural Fibre Biodegradable Composites, Advanced Composites Letters, 14(2), 2005, 63- 69
16. S. Bocchini, G. Fornasieri, L. Rozes, S. Trabelsi, J. Galy, **N. E. Zafeiropoulos**, M. Stamm, J.-F. Gerard, C. Sanchez, New Hybrid Organic-Inorganic Nanocomposites based on Functional $[\text{Ti}_{16}\text{O}_{16}(\text{OEt})_{24}(\text{OEMA})_8]$ Nano-fillers, Chemical Communications, 20, 2005, 2600- 2602
17. V. Tserki, **N. E. Zafeiropoulos**, F. Simon and C. Panayiotou, A Study of the Effect of Acetylation and Propionylation Surface Treatments on Natural Fibres, Composites Part A, 36, 2005, 1110-1118
18. S. Trabelsi*, A. Janke, R. Häßler, **N. E. Zafeiropoulos***, M. Stamm, G. Fornasieri, S. Bocchini, L. Rozes, J.-F. Gerard and C. Sanchez, Novel Organo-functional Titanium-oxo-cluster based Hybrid Materials with Enhanced Thermomechanical and Thermal Properties, Macromolecules, 38, 2005, 6068-6078
19. **N. E. Zafeiropoulos***, R. J. Davies, S. V. Roth, M. Burghammer, K. Schneider, C. Riekkel and M. Stamm, Microfocus X-ray Scattering Scanning Microscopy for Polymer Applications, Macromolecular Rapid Communications, 26, 2005, 1547-1551

20. L. Rozes, G. Fornasieri, S. Trabelsi, C. Creton, **N. E. Zafeiropoulos**, M. Stamm, and C. Sanchez, Reinforcement of Polystyrene by covalently bonded Titanium Oxoclusters, Progress in Solid State Chemistry, 33, 2005, 127-135
21. E. Serano, A. Tercjak, M. D. Martin, J. A. Pomposo, D. Mecerreyes, **N. E. Zafeiropoulos**, M. Stamm and I. Mondragon, Nanostructured Thermosetting Systems by Modification with Epoxidised Styrene-b-Butadiene Block Copolymers. Effect of Epoxidation Degree, Macromolecules, 39, 2006, 2254-2261
22. K. Schneider, S. Trabelsi, **N. E. Zafeiropoulos**, R. Davies, C. Riekkel, and M. Stamm, The Study of Cavitation in HDPE using Time Resolved Synchrotron X-Ray Scattering during Tensile Deformation, Macromolecular Symposia, 236, 2006, 241-248
23. V. Tserki, P. Matzinos, **N. E. Zafeiropoulos** and C. Panayotou, Development of Biodegradable Composites using Treated and Compatibilized Lignocellulosic Fibres, Journal of Applied Polymer Science, 100, 2006, 4703-4710
24. A. Feldman, E. Wachtel, **N. E. Zafeiropoulos**, K. Schneider, M. Stamm, R. J. Davies, A. Weinberg, G. Marom, In Vivo Microbeam testing of Stiffness of the Transcrystallinity in Nylon 6,6 reinforced by Aramid Fibers, Composites Science and Technology, 66, 2006, 2009-2015
25. **N. E. Zafeiropoulos**^{*}, R. J. Davies^{*}, K. Schneider, M. Burghammer, C. Riekkel, and M. Stamm, The Relation between Craze Structure and Molecular Weight in PS as revealed by μ SAXS experiments, Macromolecular Rapid Communications, 27, 2006, 1689-1694
26. **N. E. Zafeiropoulos**^{*}, G. G. Dijon and C. A. Baillie, A Study of the Effect of Surface Treatments on the Tensile Strength of Flax Fibres; Part I Application of Gaussian Statistics, Composites Part A, 38, 2007, 621-628
27. **N. E. Zafeiropoulos**^{*} and C. A. Baillie, A Study of the Effect of Surface Treatments on the Tensile Strength of Flax Fibres; Part II Application of Weibull Statistics, Composites Part A, 38, 2007, 629-638
28. I. Garcia, **N. E. Zafeiropoulos**, A. Janke, A. Tercjak, A. Eceiza, M. Stamm and I. Mondragon, Functionalisation of Iron Oxide Magnetic Nanoparticles with PMMA Brushes via ATRP 'Grafting From' Polymerisation, Journal of Polymer Science Part A: Polymer Chemistry, 45, 2007, 925-932
29. M. Agrawal, A. Pich, **N. E. Zafeiropoulos**, S. Gupta, J. Pionteck, F. Simon, and M. Stamm, Polystyrene-ZnO Composite Particles with Controlled Morphology, Chemistry of Materials, 19 (7), 2007, 1845-1852
30. J. Rubio-Retama^{*}, **N. E. Zafeiropoulos**^{*}, C. Serafinelli, R. Rojas-Reynas, B. Voit, E. Lopez Cabarcos, and M. Stamm, Synthesis and Characterization of Thermosensitive PNIPAM Microgels covered with Superparamagnetic γ -Fe₂O₃ Nanoparticles, Langmuir, 23, 2007, 10280-10285
31. **N. E. Zafeiropoulos**^{*}, On the Use of Single Fibre Composites Testing to Characterise the Interface in Natural Fibre Composites, Composite Interfaces, 14, 2007, 807-820
32. I. Garcia, A. Tercjak, **N. E. Zafeiropoulos**, M. Stamm, I. Mondragon, Generation of Core/Shell Iron Oxide Magnetic Nanoparticles with Polystyrene Brushes by ATRP Polymerization, Journal of Polymer Science Part A: Polymer Chemistry, 45, 2007, 4744-4750
33. E. Serrano, A. Tercjak, C. Ocando, M. Larrañaga, M. D. Parellada, S. Corona-Galván, D. Mecerreyes, **N. E. Zafeiropoulos**, M. Stamm, and I. Mondragon, Curing Behaviour and Final Properties of Nanostructured Thermosetting Systems

- modified with Epoxidised Styrene-Butadiene Linear Diblock Copolymers, Macromolecular Chemistry and Physics, 21, 2007, 2281-2292
34. I. Garcia, A. Tercjak, **N. E. Zafeiropoulos**, M. Stamm, I. Mondragon, Self-Assembling Nanomaterials using Magnetic Nanoparticles Modified with Polystyrene Brushes, Macromolecular Rapid Communications, 28, 2007, 2361-2365
 35. M. Agrawal, A. Pich, S. Gupta, **N. E. Zafeiropoulos**, and M. Stamm, Synthesis of Novel Ta₂O₅ Submicrometer Hollow Spheres with Tailored Shell Thickness, Langmuir, 24, 2008, 1013-1018
 36. M. Agrawal, A. Pich, **N. E. Zafeiropoulos**, and M. Stamm, Fabrication of hollow titania microspheres with tailored shell thickness, Colloid Polymer Science, 286, 2008, 593-601
 37. M. Agrawal, A. Pich, **N. E. Zafeiropoulos**, J. Rubio-Retama, and M. Stamm, Thermosensitive Hybrid Microgels loaded with ZnO Nanoparticles, Journal of Materials Chemistry, 18, 2008, 2581-2586
 38. M. Agrawal, J. Rubio-Retama*, **N. E. Zafeiropoulos***, N. Gaponik, S. Gupta, V. Cimrova, V. Lesniak, E. López-Cabarcos, S. Tzavalas, R. Rojas-Reyna, A. Eychmüller, and M. Stamm, Switchable Photoluminescent CdTe Nanocrystals by Temperature Responsive Microgels, Langmuir, 24, 2008, 9820-9824
 39. A. Vazquez, M. López, E. Serrano, A. Valea, **N. E. Zafeiropoulos**, and I. Mondragon, Structural and Ordering Behaviour of Lamellar Polystyrene-block-Polybutadiene-block-polystyrene Block Copolymer containing Layered Silicates, Journal of Applied Polymer Science, 110, 2008, 3624-3637
 40. I. Aranvid, K.-J. Eichhorn, H. Komber, D. Jenhichen, **N. E. Zafeiropoulos**, K. H. Ahn, Y. Grohens, M. Stamm and S. Thomas, A Study on Reaction Induced Miscibility of Polytrimethylene Terephthalate/ Polycarbonate Blends, Journal of Physical Chemistry part B, 113, 2009, 1569-1578
 41. K. Schneider, **N. E. Zafeiropoulos**, and M. Stamm, In-Situ Investigation of Structural Changes during Deformation and Fracture of Polymers by Synchrotron-SAXS and -WAXS, Advanced Engineering Materials, 11, 2009, 502-506
 42. M. Agrawal, S. Gupta, A. Pich, **N. E. Zafeiropoulos**, and M. Stamm, A Facile Approach to Fabrication of ZnO- TiO₂ Hollow Spheres, Chemistry of Materials, 21, 2009, 5343-5348
 43. M. Agrawal, A. Pich, S. Gupta, **N. E. Zafeiropoulos**, P. Formanek, D. Jehnichen, and M. Stamm, Tailored Growth of In(OH)₃ Shell on Functionalized Polystyrene Beads, Langmuir, 26, 2010, 526 - 532
 44. M. Agrawal, **N. E. Zafeiropoulos**, S. Gupta, E. Svetushkina, J. Pionteck, A. Pich and M. Stamm, A Novel Approach for mixing ZnO Nanoparticles into Poly(EthylMethacrylate), Macromolecular Rapid Communications, 31, 2010, 405-410
 45. J. Rubio-Retama, **N. E. Zafeiropoulos**, B. Frick, T. Seydel, and E. López-Cabarcos, Investigation of the Relationship between Hydrogen-Bonds and Macroscopic Properties in hybrid core-shell γ -Fe₂O₃-PNIPAM-AAS Microgels, Langmuir, 26, 2010, 7101-7106
 46. D. Serrano-Ruiz, S. Rangou, A. Avgeropoulos, **N. E. Zafeiropoulos***, E. López-Cabarcos and J. Rubio-Retama, Synthesis and Chemical Modification of Magnetic Nanoparticles covalently bound to polystyrene SiCl₂-poly(2-vinylpyridine), Journal of Polymer Science Part B: Polymer Physics, 48, 2010, 1668-1675

47. M. Agrawal, S. Gupta, **N. E. Zafeiropoulos**, U. Oertel, R. Häßler, and M. Stamm, Nanolevel mixing of ZnO into Poly(Methyl Methacrylate), Macromolecular Chemistry and Physics, 211, 2010, 1925 – 1932
48. A. Horechyy, **N. E. Zafeiropoulos***, B. Nandan, P. Fromanek, F. Simon, A. Kiriyy, and M. Stamm, Highly Ordered Arrays of Magnetic Nanoparticles prepared via Block Copolymer Assembly, Journal of Materials Chemistry, 20, 2010, 7734 - 7741
49. M. Agrawal, D. Fischer, S. Gupta, **N. E. Zafeiropoulos**, A. Pich, E. Lidorikis and M. Stamm, Three Dimensional Colloidal Crystal Arrays exhibiting Wide Stop Band in the Near Infrared Region, Journal of Physical Chemistry part C, 114, 2010, 16389 - 16394
50. M. Agrawal, S. Gupta, A. Pich, **N. E. Zafeiropoulos**, J. Rubio-Retama, D. Jenichen, and M. Stamm, Template assisted fabrication of Magnetically Responsive Hollow Titania Capsules, Langmuir, 26, 2010, 17649 – 17655
51. P. M. Carasco, A. Ruiz de Luzuriaga, M. Constantinou, P. Georgopoulos, S. Rangou, A. Avgeropoulos, **N. E. Zafeiropoulos**, H. J. Grande, G. Cabañero, D. Mecerreyes, and I. Garcia, Influence of Anion Exchange in Self-Assembling of Polymeric ionic Liquid Block Copolymers, Macromolecules, 44, 2011, 4936-4941
52. J.- A. Ramos, L. H. Esposito, R. Fernandez, I. Zalakain, S. Goyanes, A. Avgeropoulos, **N. E. Zafeiropoulos**, G. Kortaberria, and I. Mondragon, Block Copolymer Concentration Gradient and Solvent Effects on Nanostructuring of Thin Epoxy Coatings Modified with Epoxidized Styrene–Butadiene–Styrene Block Copolymers, Macromolecules, 2012, 45, 1483 -1491
53. Sel. Thomas, Sab. Thomas, **N. Zafeiropoulos**, S. Bandyopadhyay, C. Schick, and A. Wurm, Polystyrene/Calcium Phosphate Nanocomposites: Morphology, Mechanical and Dielectric properties, Polymer Engineering and Science, 52, 2012, 689-699
54. P. M. Carrasco, A. Ruiz de Luzuriaga, M. Kirsten, M. Constantinou, P. Georgopoulos, S. Rangou, A. Avgeropoulos, **N. E. Zafeiropoulos**, M. Stamm, H. J. Grande, G. Cabanero, and I. Garcia, Self-assembled Thermoset Materials by modification with Poly(styrene)-block-Poly(2-vinylpyridine), Journal of Materials Science, 47, 2012, 4348–4353
55. F. Wode, L. Tzounis, M. Kirsten, M. Constantinou, P. Georgopoulos, S. Rangou, **N. E. Zafeiropoulos**, A. Avgeropoulos, and M. Stamm, Selective Localization of Multi-Wall Carbon Nanotubes in Homopolymer Blends and a Diblock Copolymer. Rheological Orientation Studies of the Final Nanocomposites, Polymer, 53, 2012, 4438 -4447
56. A. Horechyy, B. Nandan, **N. E. Zafeiropoulos**, P. Formanek, U. Oertel, N. C. Bigall, A. Eychmüller, and M. Stamm, A Step-Wise Approach for Dual Nanoparticle Patterning via Block Copolymer Self-Assembly, Advanced Functional Materials, 23, 2013, 483 -490
57. K. Misichronis, S. Rangou, E. Ashcraft, R. Kumar, M. Dadmun, B.G. Sumpter, **N.E. Zafeiropoulos**, J.W. Mays, A. Avgeropoulos, Synthesis, characterization (molecular–morphological) and theoretical morphology predictions of linear triblock terpolymers containing poly(cyclohexadiene), Polymer, 54, 2013, 1480 - 1489
58. A. Horechyy, B. Nandan, **N. E. Zafeiropoulos**, D. Jehnichen, M. Göbel, M. Stamm, D. Pospiech, Nanoparticle directed domain orientation in thin films of asymmetric block copolymers, Colloid and Polymer Science, 2014, 2249-2260

59. G. Zapsas, D. Moschovas, K. Ntetsikas, S. Rangou, J-H Lee, E. L. Thomas, **N. E. Zafeiropoulos**, A. Avgeropoulos, Immiscible polydiene blocks in linear copolymer and terpolymer sequences, *Journal of Polymer Science Part B: Polymer Physics*, 2015, 1238-1246
60. L. Tzounis, S. Pegel, **N. E. Zafeiropoulos**, A. Avgeropoulos, A. S. Paipetis, M. Stamm, Shear alignment of a poly(styrene-butadiene-styrene) triblock copolymer/MWCNT nanocomposite, *Polymer*, 2017, 1-9
61. D. Baltzis, D. G. Bekas, G. Tzachristas, A. Parlamas, M. Karabela, **N. E. Zafeiropoulos**, A. S. Paipetis, Multi-scaled carbon reinforcements in ternary epoxy composite materials: Dispersion and electrical impedance study, *Composites Science and Technology*, 2017, 7-17
62. L. Tzounis, M. Hegde, M. Liebscher, T. Dingemans, P. Pötschke, A. S. Paipetis, **N. E. Zafeiropoulos**, M. Stamm, All-aromatic SWCNT-Polyetherimide nanocomposites for thermal energy harvesting applications, *Composites Science and Technology*, 2018, 158-165
63. D. A. Exarchos, P. T. Dalla, I. K. Tragazikis, K. G. Dassios, **N. E. Zafeiropoulos**, M. M. Karabela, C. De Crescenzo, D. Karatza, D. Musmarra, S. Chianese, T. E. Matikas, Development and Characterization of High Performance Shape Memory Alloy Coatings for Structural Aerospace Applications, *Materials*, 2018, 832
64. V. L. Tzounakas, D. G. Karadimas, A. T. Anastasiadi, H. T. Georgatzakou, E. Kazepidou, D. Moschovas, A. D. Velentzas, A. G. Kriebardis, **N. E. Zafeiropoulos**, A. Avgeropoulos, M. Lekka, K. E. Stamoulis, I. S. Papassideri, M. H. Antonelou, Donor-specific individuality of red blood cell performance during storage is partly a function of serum uric acid levels, *Transfusion*, 2018, 34-40
65. G. T. Alubaidi, A. A. Abbas, A. A. Taha, D. T. Moschovas, **N. E. Zafeiropoulos**, A. T. Avgeropoulos, Application of AU NPs as a Molecular Biodiagnostic Toll with a low DNA: AUNP molar ratio using a modified D(ATP) – mediated Conjugation Method, *Biochem. Cell. Arch.*, 2018, 2459-2466
66. M. Yilmaz, A. A. Karanastasis, M. V. Chatziathanasiadou, M. Oguz, A. Kougioumtzi, N. Clemente, T. F. Kellici, **N. E. Zafeiropoulos**, A. Avgeropoulos, T. Mavromoustakow, U. Dianzani, S. Karakurt, A. G. Tzakos, Inclusion of Quercetin in Gold Nanoparticles decorated with Supramolecular Hosts amplifies its Tumor Targeting Properties, *ACS Bio Materials*, 2019, 2715-2725
67. D. Baltzis, D. Bekas, K. Tsirka, A. Parlamas, A. Ntaflos, **N. Zafeiropoulos**, A. G. Lekatou, A. S. Paipetis, Multi-scaled Carbon Epoxy Composites Underwater Immersion: A Durability Study, *Composites Science and Technology*, 2020, 108373
68. F. Papadogiannis, A. Batsali, M. E. Klontzas, M. Karabela, A. Georgopoulou, A. Mantalaris, **N. E. Zafeiropoulos**, M. Chatzinikolaidou, and C. Pontikoglou, Osteogenic Differentiation of Bone Marrow Mesenchymal Stem Cells on Chitosan/Gelatin Scaffolds: Gene Expression Profile and Mechanical Analysis, *Biomedical Materials*, 2020, 064101
69. N.-M. Barkoula, M. Karabela, **N. E. Zafeiropoulos**, and P. Tsotra, Fast Curing versus Conventional Resins-Degradation due to Hygrothermal and UV Exposure, *Express Polymer Letters*, 2020, 401-415
70. D. Moschovas, G.-M. Manesi, A. Karydis-Messinis, G. Zapsas, K. Ntetsikas, **N. E. Zafeiropoulos**, A. A. Piryazev, E. L. Thomas, N. Hadjichristidis, D. A. Ivanov and A. Avgeropoulos, Alternating Gyroid Network Structure in an ABC

Miktoarm Terpolymer Comprised of Polystyrene and two Polydienes, *Nanomaterials*, 2020, 1497

71. G. Zapsas, D. Moschovas, K. Ntetsikas, A. Karydis-Messinis, N. Chalpes, A. Kouloumpis, D. Gournis, **N. E. Zafeiropoulos***, A. Avgeropoulos, Segregation of Maghemite Nanoparticles within Symmetric Diblock Copolymer and Triblock Terpolymer Patterns under Solvent Vapor Annealing, *Materials*, 2020, 1286

* denotes corresponding authorship

In refereed Conference Proceedings

1. **N. E. Zafeiropoulos***, A. H. Barber, C. A. Baillie and F. L. Matthews, Heteroepitaxial Nucleation of Flax Fibres in Polyolefin Crystallisation, in Proceedings of the 5th International Conference on Deformation and Fracture of Composites, London, 1999, 282-296
2. M. Amici, **N. E. Zafeiropoulos***, M. Stamm, J.-F. Gerard, J. Galy, Novel Fillers for Thermosetting Matrices: The use of Polysilsesquioxanes - Processing and Characterisation of Nanocomposites based on Dimethacrylate Matrices and Polysilsesquioxanes (POSS®) as Fillers, *VDI Berichte*, 1803, 2004, 195-199
3. S. Trabelsi, A. Janke, **N. E. Zafeiropoulos***, R. Häßler M. Stamm, S. Bocchini, G. Fornasieri, Hybrid Polymers based on modified Titanium Oxo-Clusters: Structure and Thermal Properties, *VDI Berichte*, 1839, 2005, 133-136

Conference Abstracts

1. **N. E. Zafeiropoulos**, A. H. Barber, C. A. Baillie and F. L. Matthews, Heteroepitaxial Nucleation of Flax Fibres in Polyolefin Crystallisation, in Proc. of the 5th International Conference on Deformation and Fracture of Composites, London, 1999, 282-296 (Poster Presentation)
2. **N. E. Zafeiropoulos**, C. A. Baillie and F. L. Matthews, Characterisation of the Interface in Flax/Polypropylene Composite Materials, 6th International Conference on Interfacial Phenomena in Composite Materials (IPCM-6), Berlin, September 1999. (Oral Presentation)
3. **N. E. Zafeiropoulos**, C. A. Baillie and F. L. Matthews, Modification and characterisation of the interface in flax/polypropylene composite materials, in Proc. of the 9th European Conference on Composite Materials (ECCM-9), Brighton, June 2000 (Oral Presentation)
4. **N. E. Zafeiropoulos**, C. A. Baillie and F. L. Matthews, The Interface in Flax Polypropylene Composite Materials, 7th International Conference on Interfacial Phenomena in Composite Materials (IPCM-7), Bordeaux, September 2001 (Oral Presentation)
5. D. Jehnichen, A. Pohlers, **N. E. Zafeiropoulos**, S. Kummer, S. Roth, M. Burghammer, K. Schneider, D. Lehman and M. Stamm, μ -SAXS and μ -WAXS Investigations on Stretched Samples of Reactively Compatibilised PTFE-PA6 Materials Produced by Injection Moulding, 12th European Synchrotron Radiation Facility (ESRF) Users' Meeting, Grenoble, February 2002 (Poster Presentation)
6. Pohlers, D. Jehnichen, **N. E. Zafeiropoulos**, S. Kummer, S. Roth, M. Burghammer, K. Schneider, D. Lehmann and M. Stamm, The use of Synchrotron Radiation for Polymer Microscopy Applications: Investigation of Notch Induced Crack Propagation by Use of μ -SAXS and μ -WAXS in PA6/PTFE Materials, 12th

- European Synchrotron Radiation Facility (ESRF) Users' Meeting, Grenoble, February 2002 (Poster Presentation)
7. **N. E. Zafeiropoulos**, J. Schut, M. Stamm and J.-F. Gerard, A Study of PS/Epoxy-Amine polymer blends by Means of WAXS experiments, 7th European Symposium on Polymer Blends, Lyon, May 2002 ((Oral Presentation)
 8. **N. E. Zafeiropoulos**, D. Jehnichen, A. Pohlers, S. Kummer, S. Roth, K. Schneider, D. Lehmann, and M. Stamm, An Investigation of Crack Propagation in PA6 and PA6/PTFE Materials by means of μ SAXS and μ WAXS measurements, 2nd International Conference on Synchrotron Radiation in Polymer Science (SRPSII), Sheffield, September 2002 (Poster Presentation)
 9. R. Weidisch, A. Pohlers, K. Schneider, D. Jehnichen, **N. E. Zafeiropoulos**, A. Janke, M. Stamm, K. Geiger, and K. Knoll, Investigation of the deformation behavior of extruded triblock copolymers by synchrotron radiation, 5th IPF Colloquium 'Theory and Experiment', Dresden, November 2002 (Poster Presentation)
 10. R. Weidisch, A. Pohlers, K. Schneider, D. Jehnichen, **N. E. Zafeiropoulos**, A. Janke, M. Stamm, K. Geiger, S. Danuningrat, and K. Knoll, Deformation behavior of star block copolymer/homopolymer blends, 5th IPF Colloquium 'Theory and Experiment', Dresden, November 2002 (Poster Presentation)
 11. K. Schneider, D. Jehnichen, A. Pohlers, **N. E. Zafeiropoulos**, M. Stamm, Mechanical and Structural Characterisation of Materials Properties of Polymers in the sub-mm-range, 5th IPF Colloquium 'Theory and Experiment', Dresden, November 2002 (Poster Presentation)
 12. J. Schut, **N. E. Zafeiropoulos**, M. Stamm, M. Dumon, J.-F. Gerard, Blend Morphology and Mechanical Properties of Syndiotactic Polystyrene in an Epoxy Resin, Meeting of the German Physical Society, 24-29 March 2003 (Poster Presentation)
 13. **N. E. Zafeiropoulos**, S. Roth, K. Schneider, D. Jehnichen, A. Pohlers, M. Burghammer and M. Stamm, An Investigation of Crack Propagation in PA6 by means of μ -SAXS and μ -WAXS measurements, Meeting of the German Physical Society, 24-29 March 2003 (Poster Presentation)
 14. K. Schneider, **N. E. Zafeiropoulos**, S. Roth, D. Jehnichen, A. Pohlers, R. Weidisch and Manfred Stamm, Simultaneous micro-mechanical and structural characterisation by means of micro- SAXS and micro-WAXS measurements of Polymers, Meeting of the German Physical Society, 24-29 March 2003 (Poster Presentation)
 15. L. Figiel, **N. E. Zafeiropoulos** and B. Lauke, Numerical analysis of the delamination propagation in a curved composite beam under cyclic shear loading, 7th international conference on Deformation and Fracture of Composites, Sheffield, 22- 25 April 2003 (Oral presentation)
 16. **N. E. Zafeiropoulos**, L. Figiel, and C. A. Baillie, A Study of the Interface in Natural Fibre Composites by Means of the Fragmentation Test, 7th international conference on Deformation and Fracture of Composites, Sheffield, 22- 25 April 2003 (Poster Presentation)
 17. J. Schut, **N. E. Zafeiropoulos**, M. Stamm, M. Dumon, J.-F. Gerard, New thermoset-thermoplastic polymer blends based on syndiotactic polystyrene and epoxy-amine resin, Europolymer Congress, Stockholm, Sweden, 23rd-28th June 2003 (Oral Presentation)
 18. J. Schut, **N. E. Zafeiropoulos**, M. Stamm, M. Dumon, J.-F. Gerard,, Morphological studies of syndiotactic polystyrene in an epoxy resin, Scanning

- Probe Microscopy of Polymers (SPMP) 2003, Kerkrade, The Netherlands, 15th-18th of July 2003 (Poster Presentation)
19. K. G. Kolovos, **N. E. Zafeiropoulos**, M. S. Chalikias, SEM Examinations in Mineralized Portland Cement Clinkers, Proceedings of the 9th Euroseminar on Microscopy Applied to Building Materials, Trondheim, Norway, 9-12 September 2003 (Poster Presentation)
 20. **N. E. Zafeiropoulos**, K. Schneider, R. Davies, M. Amici, S. V. Roth, M. Burghammer, M. Stamm, A Study of the Deformation Mechanisms in PS using μ SAXS coupled with *in situ* mechanical testing, Jülich Soft Condensed Matter Days 2003, Kerkrade (Netherlands), 18-21 November, 2003 (Poster Presentation)
 21. M. Amici, **N. E. Zafeiropoulos**, M. Stamm, S. Bizet, J.-F. Gerard, Novel nanocomposites: the use of polysilsesquioxanes (POSSTM) as fillers for a thermosetting matrix, Jülich Soft Condensed Matter Days 2003, Kerkrade (Netherlands), 18-21 November, 2003 (Poster Presentation)
 22. J. Schut, **N. E. Zafeiropoulos**, M. Stamm, M. Dumon, J.-F. Gerard, Morphology and Mechanical Properties of Syndiotactic Polystyrene in Epoxy Resin, Jülich Soft Condensed Matter Days 2003, Kerkrade (Netherlands), 18-21 November, 2003 (Poster Presentation)
 23. M. Amici, **N. E. Zafeiropoulos**, M. Stamm, J. Galy, J.-F. Gerard, The Morphology of polyhedral-silsesquioxanes (POSSTM) in nanocomposites based on a dimethacrylate matrix, Nanomaterials and Nanomanufacturing, London, 15-16 December, 2003 (Poster Presentation)
 24. M. Amici, **N. E. Zafeiropoulos**, S. Trabelsi, M. Stamm, J.-F. Gerard, S. Bizet, Novel nanocomposites based on polysilsesquioxanes (POSSTM) fillers, POLYCHAR 12, Guimaraes (Portugal), 5th-11th January 2004 (Oral presentation)
 25. **N. E. Zafeiropoulos**, The Application of Synchrotron μ SAXS and μ WAXS in Polymer Science, 14th ESRF Users' Meeting, Grenoble, France, 10th -11th of February, 2004 (Invited Oral Presentation)
 26. **N. E. Zafeiropoulos**, The Interface in Flax/Polypropylene Composite Materials, 11th European Conference on Composite Materials, Rhodos (Greece), 31st May-3rd June, 2004 (Oral Presentation)
 27. M. Amici, **N. E. Zafeiropoulos**, M. Stamm, J. F. Gerard, J. Galy, Processing and characterisation of Polyhedral oligomeric silsesquioxanes (POSS®), 11th European Conference on Composite Materials, Rhodos (Greece), 31st May-3rd June, 2004 (Oral Presentation)
 28. K. Schneider, **N. E. Zafeiropoulos**, R. J. Davies, M. Amici, S. V. Roth, M. Burghammer, and M. Stamm, The use of Microfocus Synchrotron X-ray Radiation as a Novel Technique to Study the Interface in Composites, 11th European Conference on Composite Materials, Rhodos (Greece), 31st May-3rd June, 2004 (Oral Presentation)
 29. S. Trabelsi, S. Bocchini, G. Fornasieri, S. Bizet, M. Amici, **N. E. Zafeiropoulos**, M. Stamm, X-ray scattering investigation of nanobuilding blocks in a thermosetting network, 7th International Conference on Nanostructured Materials, Wiesbaden (Germany), June, 2004 (Poster Presentation)
 30. K. Schneider, **N. E. Zafeiropoulos**, R. J. Davies, A. Schöne, M. Burghammer, M. Stamm, The use of microfocus Synchrotron x-ray radiation as a novel technique to study the interface in composites, Polymeric Materials 2004, Halle (Germany), 29th September- 1st October, 2004 (Oral Presentation)
 31. S. Trabelsi, R. Häßler, S. Bocchini, G. Fornasieri, A. Janke, **N. E. Zafeiropoulos**, J. Galy, L. Rozes, M. Stamm, J.-F. Gérard, C. Sanchez, Structure and properties

- Characterisation of novel Hybrid Organic-Inorganic nanomaterials based on modified Titanium oxo-clusters, Meeting of the German Physical Society, Berlin, 4-9 March, 2005 (Oral Presentation)
32. K. Schneider, **N. E. Zafeiropoulos**, R. J. Davies, M. Burghammer, M. Stamm, The use of microfocus synchrotron x-ray radiation as a Novel Technique to study the Interface in Composites, Meeting of the German Physical Society, Berlin, 4-9 March, 2005 (Oral Presentation)
 33. J.-F. Gerard, J. Galy, S. Bocchini, S. Bizet, M. Amici, **N. Zafeiropoulos**, M. Stamm, C. Sanchez, L. Rozes, G. Fornasieri, Nanostructured hybrid organic-inorganic polymers from the introduction of metal oxo-clusters: An alternative route for designing functional nanocomposites, 8th European Symposium on Polymer Blends-Eurofillers 2005, Bruges (Belgium), 9th to 12th of May, 2005 (Oral Presentation)
 34. L. Rozes, G. Fornasieri, C. Sanchez, C. Creton, S. Trabelsi, **N. E. Zafeiropoulos**, M. Stamm, Reinforcement of Polystyrene by covalently bonded OxoTitanium Clusters, European Materials Research Society (E-MRS) 2005 Spring Meeting, Strasbourg (France), 31st of May – 3rd of June, 2005 (Oral Presentation)
 35. S. Trabelsi, K. Schneider, **N. E. Zafeiropoulos**, R. J. Davies, M. Burghammer, M. Stamm, Structural Characterisation of HDPE during Tensile Deformation and Fracture using Synchrotron X-ray Scattering, Deformation und Bruchverhalten von Kunststoffen, Merseburg (Germany), 15th – 17th of June, 2005 (Oral Presentation)
 36. **N. E. Zafeiropoulos**, R. J. Davies, K. Schneider, S. Trabelsi, J. Rieger, C. Riekkel, M. Stamm, The Application of Microfocus Synchrotron Radiation x-ray Scattering to study Fracture Mechanisms in Polyolefins, 23rd Conference on Current and Future Trends in Polymeric Materials, Prague (Czech Republic), 26th – 30th of June, 2005 (Oral Presentation)
 37. V. Tserki, **N. E. Zafeiropoulos**, C. Panayiotou, Novel Biodegradable Composites based on treated Lignocellulosic Fibres, 7th Mediterranean Conference on Calorimetry and Thermal Analysis (MEDICTA 2005), Thessaloniki (Greece), 2nd – 6th July, 2005 (Poster Presentation)
 38. A. Y. Feldman, **N. E. Zafeiropoulos**, G. Marom, New Insight into the Structure of Transcrystallinity in Nylon 6,6 reinforced by Aramid Fibers, 8th International Symposium Polymers for Advanced Technologies, Budapest (Hungary), 13th – 16th September, 2005 (Oral Presentation)
 39. **N. E. Zafeiropoulos**, K. Schneider, R. J. Davies, A. Schöne, C. Riekkel, and M. Stamm, Microfocus Synchrotron X-ray Radiation as a Novel Technique to study Interfacial Phenomena in Composites, International Conference on Interfaces and Interphases in Multicomponent Materials (IIMM 2005), Lyon (France), 12th – 14th September, 2005 (Oral Presentation)
 40. **N. E. Zafeiropoulos**, R. J. Davies, C. Riekkel, Y.-F. Men, J. Rieger, and M. Stamm, Deformation and Fracture mechanisms in Semicrystalline Polymers as revealed by Microfocus Synchrotron X-ray Scattering, Meeting of the German Physical Society, Dresden (Germany), 27-31 March, 2006 (Oral Presentation)
 41. M. Agrawal, A. Pich, **N. E. Zafeiropoulos**, M. Stamm, Preparation and Characterisation of Polystyrene-ZnO hybrid polymer particles, Meeting of the German Physical Society, Dresden (Germany), 27-31 March, 2006 (Poster Presentation)
 42. K. Schneider, S. Trabelsi, **N. E. Zafeiropoulos**, R. J. Davies, C. Riekkel, M. Stamm, Investigation of Structural Changes and Void Formation during

- Deformation of Polyolefins by Scanning micro-SAXS, 13th International Conference on Deformation, Yield and Fracture of Polymers, Rolduc (Netherlands), 10-13 April, 2006 (Poster Presentation)
43. **N. E. Zafeiropoulos**, S. Trabelsi, A. Janke, G. Fornasieri, S. Bocchini, L. Rozes, J. Galy, M. Stamm, J.-F. Gérard, C. Sanchez, Novel Organic-Inorganic Nanohybrid nanomaterials based on modified Titanium oxo-clusters with Enhanced Thermal and Thermomechanical Properties, 2nd NANOFUN-POLY International Conference on Nanostructured and Multifunctional Polymer-Based Nanomaterials and Nanocomposites, Lyon (France), 29-31 May, 2006 (Poster Presentation)
 44. P. Valot, **N. E. Zafeiropoulos**, N. Zydowicz, Micro/Nano Structural Investigation of Microcapsule Drug Delivery Systems, 2nd NANOFUN-POLY International Conference on Nanostructured and Multifunctional Polymer-Based Nanomaterials and Nanocomposites, Lyon (France), 29-31 May, 2006 (Poster Presentation)
 45. E. Serrano, A. Tercjak, M. Larrañaga, **N. E. Zafeiropoulos**, D. Mecerreyes, I. Mondragon, Nanoordered Thermosetting Materials from Functionalised Styrene-Butadiene Diblock Copolymers, 2nd NANOFUN-POLY International Conference on Nanostructured and Multifunctional Polymer-Based Nanomaterials and Nanocomposites, Lyon (France), 29-31 May, 2006 (Poster Presentation)
 46. I. Garcia, A. Tercjak, E. Serrano, M. Larrañaga, **N. E. Zafeiropoulos**, M. Stamm, I. Mondragon, Preparation and Characterisation of Novel Magnetic Nanomaterials, 2nd NANOFUN-POLY International Conference on Nanostructured and Multifunctional Polymer-Based Nanomaterials and Nanocomposites, Lyon (France), 29-31 May, 2006 (Poster Presentation)
 47. M. Amici, J. Galy, **N. E. Zafeiropoulos**, M. Stamm, J.-F. Gérard, Nanostructured Polymers based on Methacrylate-Polyhedral Oligomeric Silsesquioxanes (POSS), 2nd NANOFUN-POLY International Conference on Nanostructured and Multifunctional Polymer-Based Nanomaterials and Nanocomposites, Lyon (France), 29-31 May, 2006 (Poster Presentation)
 48. **N. E. Zafeiropoulos**, K. Schneider, R. J. Davies, C. Riekkel, and M. Stamm, Microfocus Small Angle X-ray Scattering as a tool to study the Mode of Failure at the Interface of Composite Materials, 12th European Conference on Composite Materials (ECCM12), Biarritz (France), 29th of August –1st of September, 2006 (Oral Presentation)
 49. M. Agrawal, A. Pich, **N. E. Zafeiropoulos**, and M. Stamm, Microgels containing ZnO nanoparticles, 6th International Symposium on Polyelectrolytes, Dresden (Germany), 4- 8 September, 2006 (Poster presentation)
 50. M. Agrawal, A. Pich, S. Gupta, **N. E. Zafeiropoulos**, and M. Stamm, Polystyrene-ZnO hybrid nanoparticles with core-shell morphology, 2006 Fall national ACS Meeting, San Francisco (USA), 10-14 September, 2006 (Poster Presentation)
 51. **N. E. Zafeiropoulos**, R. J. Davies, C. Riekkel, and M. Stamm, The application of synchrotron radiation x-ray scattering to study fracture mechanisms in semicrystalline polymers, 6th Conference of the Hellenic Polymer Society, Patras (Greece), 3-5 November, 2006 (Oral presentation)
 52. M. Agrawal, A. Pich, **N. E. Zafeiropoulos**, and M. Stamm, Temperature Sensitive Hybrid Microgels containing ZnO Nanoparticles, 9th National Conference MACRO-2006 Polymers for Advanced Technologies, Pune (India), 17-20 December, 2006, (Oral Presentation)

53. K. Schneider, X.-H. Li, **N. E. Zafeiropoulos**, P. Bösecke, and M. Stamm, Investigation of structural changes in semicrystalline polymers during plastic deformation and stress relaxation by SAXS, HASY Lab User's Meeting, Hamburg (Germany), 3-5 January, 2007 (Poster presentation)
54. J. Rubio, **N. E. Zafeiropoulos**, and M. Stamm, Smart Multifunctional Hybrid Microgels for Biological Applications, Meeting of the German Physical Society, Regensburg (Germany), 26-30 March, 2007 (Oral Presentation)
55. M. Agrawal, A. Pich, **N. E. Zafeiropoulos**, and M. Stamm, Zinc Oxide Nanoparticles inside Microgels, Meeting of the German Physical Society, Regensburg (Germany), 26-30 March, 2007 (Poster Presentation)
56. M. Agrawal, A. Pich, S. Gupta, **N. E. Zafeiropoulos**, and M. Stamm, Synthesis of Titania shells on Polystyrene cores with Tunable Thickness, 2007 Spring National ACS Meeting, Chicago (USA), 25-30 March, 2007 (Oral Presentation)
57. M. Agrawal, A. Pich, U. Oertel, **N. E. Zafeiropoulos**, and M. Stamm, Preparation of PMMA-ZnO Composite Films via Solution Mixing, Symposium on Functional Polymer Based Materials, Jena (Germany), 3-4 April 2007 (Poster Presentation)
58. **N. E. Zafeiropoulos**, S. Trabelsi, S. Bocchini, M. Amici, G. Fornasieri, J. Galy, L. Rozes, J.-F. Gérard, C. Sanchez, and M. Stamm, The Effect of the Inorganic Phase on the Properties of Hybrid Nanomaterials, 3rd NANOFUN-POLY International Symposium on Nanostructured and Multifunctional Polymer-Based Nanomaterials and Nanocomposites, Corfu (Greece), 13-15 May, 2007 (Oral Presentation)
59. M. Agrawal, A. Pich, **N. E. Zafeiropoulos**, S. Gupta, and M. Stamm, Fabrication of Core-Shell Composite Particles and Hollow Spheres with Tailored Morphology and Shell Thickness, 3rd NANOFUN-POLY International Symposium on Nanostructured and Multifunctional Polymer-Based Nanomaterials and Nanocomposites, Corfu (Greece), 13-15 May, 2007 (Oral Presentation)
60. J. Rubio-Retama, **N. E. Zafeiropoulos**, and M. Stamm, Smart Multifunctional Hybrid Microgels for Biological Applications, 3rd NANOFUN-POLY International Symposium on Nanostructured and Multifunctional Polymer-Based Nanomaterials and Nanocomposites, Corfu (Greece), 13-15 May, 2007 (Oral Presentation)
61. M. Stamm, **N. E. Zafeiropoulos**, and K. Schneider, X-Ray Scattering for the Study of Deformation and Fracture of Polymers, 56th Annual Conference on Applications of X-ray Analysis (Denver X-Ray Conference), Colorado Springs (USA), 30th of July –3rd of August, 2007, (Invited Oral Presentation)
62. M. Stamm, R. Krenek, V. Cimrova, B. Nandan, P. Uhlmann, **N. E. Zafeiropoulos**, and X. Li, Nanotemplates with Copolymer Thin Films, 9th European Symposium on Polymer Blends, Palermo (ITALY), 9-12 September, 2007, (Oral Presentation)
63. M. Rosenthal, D.V. Anokhin, **N. E. Zafeiropoulos**, C. Riekkel, M.H. Koch, and D.A. Ivanov, New Insights in Semicrystalline Morphology and Polymorphic Transitions in Poly(vinylidene fluoride): synchrotron X-ray scattering study using a micro-focus facility, European Discussion Meetings EDM 2007 on Polymer Crystallization, 3-6 October 2007, Waldau, Germany (Poster Presentation)
64. M. Agrawal, A. Pich, **N. E. Zafeiropoulos**, and M. Stamm, Fabrication of Novel Metal Oxide Hollow Spheres with tailored Shell Thickness, Meeting of the German Physical Society, Berlin, 25-29 February, 2008, (Oral Presentation)
65. M. Agrawal, S. Gupta, V. Cimrova, N. Gaponik, S. Tzavalas, R. Rojas-Reyna, J. Rubio-Retama, M. Stamm, and **N. E. Zafeiropoulos**, Switchable

- Photoluminiscent CdTe Nanocrystals by Temperature Responsive Microgels, Meeting of the German Physical Society, Berlin, 25-29 February, 2008, (Oral Presentation)
66. **N. E. Zafeiropoulos**, R. J. Davies, and M. Stamm, The Relation between Craze Structure and Molecular Weight in PS as revealed by μ SAXS experiments, Meeting of the German Physical Society, Berlin, 25-29 February, 2008, (Oral Presentation)
 67. E. López-Cabarcos, J. Rubio-Retama, **N. E. Zafeiropoulos**, and M. Stamm, Heterogeneously Charged Smart Multifunctional Hybrid Microgels: Synthesis, Structure and Applications, Workshop of COST action D43 'Functionalised Materials and Interfaces', Berlin (Germany), 2-4 April, 2008 (Oral Presentation)
 68. M. Agrawal, S. Gupta, V. Cimrova, N. Gaponik, S. Tzavalas, R. Rojas-Reyna, J. Rubio-Retama, M. Stamm, and **N. E. Zafeiropoulos**, Switchable Photoluminiscent CdTe Nanocrystals by Temperature Responsive Microgels, 4th NANOFUN-POLY International Conference on Nanostructured and Polymers and Nanocomposites, Rome (Italy), 16-18 April, 2008 (Oral Presentation)
 69. M. Stamm, R. Krenek, V. Cimrova, B. Nandan, P. Uhlmann, **N. E. Zafeiropoulos**, and X. Li, Nanotemplates with Copolymer Thin Films, 4th NANOFUN-POLY International Conference on Nanostructured and Polymers and Nanocomposites, Rome (Italy), 16-18 April, 2008 (Poster Presentation)
 70. M. Agrawal, A. Pich, J. Rubio-Retama, **N. E. Zafeiropoulos**, and M. Stamm, Zinc Oxide nanoparticles inside Thermosensitive Microgels, 4th NANOFUN-POLY International Conference on Nanostructured and Polymers and Nanocomposites, Rome (Italy), 16-18 April, 2008 (Poster Presentation)
 71. M. Agrawal, A. Pich, **N. E. Zafeiropoulos**, and M. Stamm, Template Assisted Fabrication of Pure and Mixed Metal Oxide Hollow Spheres, 4th NANOFUN-POLY International Conference on Nanostructured and Polymers and Nanocomposites, Rome (Italy), 16-18 April, 2008 (Poster Presentation)
 72. M. Agrawal, **N. E. Zafeiropoulos**, A. Pich, U. Oertel, and M. Stamm, Preparation of PMMA-ZnO Composite Films via Solution Mixing, 4th NANOFUN-POLY International Conference on Nanostructured and Polymers and Nanocomposites, Rome (Italy), 16-18 April, 2008 (Poster Presentation)
 73. G. Kortaberria, E. Etxeberria, I. Garcia, A. Tercjak, **N. E. Zafeiropoulos**, R. J. J. Williams, J. M. Kenny, C. Tsitsilianis, and I. Mondragon, Self-assembled Nanocomposites based on Block Copolymers containing Magnetic Nanoparticles, 4th NANOFUN-POLY International Conference on Nanostructured and Polymers and Nanocomposites, Rome (Italy), 16-18 April, 2008 (Poster Presentation)
 74. J. Rubio-Retama, **N. E. Zafeiropoulos**, M. Stamm, and E. López-Cabarcos, Polymer Chain Dynamic influenced by the presence of Magnetic Nanoparticles within Microgels, 22nd Conference of the European Colloid and Interface Society, Cracow (Poland), August 31 - September 5, 2008 (Oral Presentation)
 75. J. Rubio-Retama, **N. E. Zafeiropoulos**, N. Gaponik, and E. López-Cabarcos, Switchable photoluminescence of CdTe nanocrystals by temperature responsive microgels, 22nd Conference of the European Colloid and Interface Society, Cracow (Poland), August 31 - September 5, 2008 (Oral Presentation)
 76. **N. E. Zafeiropoulos**, Smart Multifunctional Hybrid Microgels, XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion (Greece), 21-24 September, 2008 (Invited Oral Presentation)
 77. A. Horechyy, **N. E. Zafeiropoulos**, C. Tsitsilianis, and M. Stamm, Synthesis and Selective Segregation of Fe₃O₄ nanoparticles inside the Poly-2-vinylpyridine

- domain of Poly(styrene-*b*-vinylpyridine), 7th Hellenic Polymer Conference, Ioannina, Greece, 28th September – 1st October, 2008 (Oral Presentation)
78. **N. E. Zafeiropoulos**, Nanohybrid Materials with Block Copolymers and Nanoparticles, 10th European Symposium on Polymer Blends, Dresden, 7-10 of March 2010 (Invited Keynote Oral Presentation)
 79. D. Katsigiannopoulos, E. Grana, E. L. Thomas, **N. E. Zafeiropoulos**, A. Avgeropoulos, Polymers Grafted on Multi Wall Carbon Nanotubes, 8th Hellenic Polymer Conference, Chersonesos Crete, Greece, 24th – 29st October, 2010 (Poster Presentation)
 80. G. Zapsas, D. Moschovas, S. Rangou, **N. E. Zafeiropoulos**, A. Avgeropoulos, Core Shell Double Gyroid Morphology of a Triblock Terpolymer Consisting of : Polystyrene, Polybutadiene and Polyisoprene, 8th Hellenic Polymer Conference, Chersonesos Crete, Greece, 24th – 29st October, 2010 (Poster Presentation)
 81. S. Rangou, D. Serrano-Ruiz, A. Avgeropoulos, **N. E. Zafeiropoulos**, E. Cabarcos, J. Rubio-Retama, Chemical Modification of Magnetic nanoparticles by Covalently Bonding Middle Bunctionalised Diblock Copolymer, 8th Hellenic Polymer Conference, Chersonesos Crete, Greece, 24th – 29st October, 2010 (Poster Presentation)
 82. D. Moschovas, G. Zapsas, S. Rangou, **N. E. Zafeiropoulos**, A. Avgeropoulos, Synthesis and Characterization of High molecular Weight Triblock Terpolymers Consisting of Polystyrene, Polybutadiene and Polyisoprene with different Isomerisms, 8th Hellenic Polymer Conference, Chersonesos Crete, Greece, 24th – 29st October, 2010 (Poster Presentation)
 83. Bhanu Nandan, A. Horechyy, **N. Zafeiropoulos**, N. Bigall, A. Eychmuller, M. Stamm, Block Copolymer Self-Assembly for Bi-Nanoparticles Patterning, PSE2010 (Polymer Science and Engineering: Emerging Dimensions), Chandigarh, India, 26th -27th November, 2010 (Oral Presentation)
 84. Bhanu Nandan, A. Horechyy, **N. Zafeiropoulos**, N. Bigall, A. Eychmuller, M. Stamm, Block Copolymer Self-Assembly for Bi-Nanoparticles Patterning, Macro2010 (International Conference on Frontiers of Polymers & Advanced Materials), Delhi, India, 15th -17th December, 2010 (Oral Presentation)
 85. **N. E. Zafeiropoulos**, Nanohybrid Materials with block Copolymers and Nanoparticles, 8th International Conference on Nanosciences and Nanotechnologies, Thessaloniki, Greece, 12th – 15th July, 2011 (Invited Keynote Oral Presentation)
 86. G. Zapsas, P. N. Trikalitis, J. Rubio-Retama, A. Avgeropoulos, **N. E. Zafeiropoulos**, Hybrid Materials Based on Functionalized Iron Oxide Nanoparticles and Triblock Copolymers, E-MRS 2012 Spring Meeting, Strasbourg, France, 14th – 18th May, 2012 (Poster Presentation)
 87. G. Zapsas, E. Mouzourakis, D. Gournis, A. Avgeropoulos and **N. E. Zafeiropoulos**, Plasmonic Behavior of Noble Metal Nanoparticles Segregated in Typical Block Copolymer Thin Films, 9th Panhellenic Polymer Conference, Thessaloniki, Greece, 30th November – 2nd December, 2012 (Poster Presentation)
 88. A. Karanastasis, A. Avgeropoulos, **N. E. Zafeiropoulos**, Size-Tailored Synthesis of Smart Microgels for Biomedical Applications, , 9th Panhellenic Polymer Conference, Thessaloniki, Greece, 30th November – 2nd December, 2012 (Poster Presentation)
 89. A. Karanastasis and **N. E. Zafeiropoulos**, Development of trifunctional PNIPAM based hybrid nanogels for biomedical applications, 11th Panhellenic Polymer Conference, Heraklion, Greece, November 3-5, 2016 (Oral Presentation)

90. **N. E. Zafeiropoulos**, Investigations of structure and properties of nanohybrids using thermal analysis, 7th Panhellenic Conference on Thermal Analysis and Thermal Calorimetry, Ioannina, Greece, 27-29 May 2016 (Invited Keynote Lecture)
91. K. Arapis, M. Tsigonias, **N. E. Zafeiropoulos**, D. Anagnostopoulos, D. Moschovas, Study and Identification of Printing Matrices of the Printing and Graphical Arts Museum of the University of Ioannina with Themes from Nikolaos Gyzis Artwork, 1st Panhellenic Conference on Graphical Arts, Ioannina, Greece, 1-8 July, 2018 (Oral Presentation)
92. D. Moschovas, G. Zapsas, K. Ntetsikas, A. Avgeropoulos, **N. E. Zafeiropoulos**, Selective Segregation of Modified Nanoparticles in Symmetric Diblock Copolymer and Triblock Terpolymer, 12th Panhellenic Polymer Conference, Ioannina, Greece, 30th September – 3rd October, 2018 (Poster presentation)
93. D. Moschovas, G. Zapsas, S. Kassavetis, C Gravalididis, P. Patsalas, A. Avgeropoulos, **N. E. Zafeiropoulos**, Surface Modification on Silicon Substrates and Magnetic Nanoparticles of PS/P2VP V-Shaped Polymer Brushes Through the “Grafting To” Method, 12th Panhellenic Polymer Conference, Ioannina, Greece, 30th September – 3rd October, 2018 (Poster presentation)
94. A. Karra, A. Karydis-Messinis, M. Karabela, **N. E. Zafeiropoulos**, Extraction Methods of Collagen from Fish (Trout) Wastes and Characterization: A Comparative Study, 12th Panhellenic Polymer Conference, Ioannina, Greece, 30th September – 3rd October, 2018 (Poster presentation)

Contributions in books and book editing

1. **N. E. Zafeiropoulos**, The Fibre-Matrix Interface in Natural Fibre Composites, in Properties and Failure Mechanisms of Natural Fibre Composites, K. Pickering (ed), Woodhead Publishing Limited, June 2008 (ISBN-13978145692674)
2. **N. E. Zafeiropoulos (editor)**, Interfacial Engineering of Natural Fibre Composites for maximum Performance, Woodhead Publishing Limited, 2011, ISBN: 978-1-84569-742-6.

Invited Talks

1. **N. E. Zafeiropoulos**, Natural Fibres as Potential Reinforcements in Composite Materials, Department of Civil and Environmental Engineering, State University of Washington, Pullman, USA, 15th of April 2002 (Invited by Prof. Michael Wolcott)
2. **N. E. Zafeiropoulos**, The Application of Synchrotron μ SAXS and μ WAXS in Polymer Science, 14th ESRF Users’ Meeting, Grenoble, France, 10th -11th February, 2004 (Invited by Dr Christian Riekell)
3. **N. E. Zafeiropoulos**, Synchrotron x-ray Scattering: A Novel Method to Study Deformation Phenomena in Polymer Systems, Department of Materials Science, University of Patras, Greece, 9th June, 2004 (Invited by Prof. Costas Galiotis)
4. **N. E. Zafeiropoulos**, Development and Characterisation of Novel Hybrid Organic-Inorganic Nanomaterials, Department of Physics, University of Patras, Greece, 19th October, 2004 (Invited by Prof Chris Toprakcioglou)
5. **N. E. Zafeiropoulos**, The use of Synchrotron radiation x-ray scattering to study the deformation and fracture phenomena in polymer science, National Technical

- University of Athens, Greece, 14th January, 2005 (Invited by Prof. Doros Theodorou)
6. **N. E. Zafeiropoulos**, Microfocus x-ray scattering as a tool for polymer applications, Department of Biomaterials, Max Plank Institute for Colloids, Gollm, Germany, 19th April 2005 (Invited by Prof. Peter Fratzl)
 7. **N. E. Zafeiropoulos**, Strategies and Routes for Developing Novel Hybrid Nanomaterials, Department of Chemical Engineering, University of the Basque Country, San Sebastian, Spain, 14th of July, 2005 (Invited by Prof. Iñaki Mondragon)
 8. **N. E. Zafeiropoulos**, Preparation and Characterisation of Hybrid Nanomaterials, Department of Chemistry, Université Claude Bernard de Lyon 1, France, 8th February, 2007 (Invited by Dr Nathalie Zydowicz)
 9. **N. E. Zafeiropoulos**, From Magnetic Smart Microgels to Magnetic Hollow Spheres, Joint workshop of Networks of Excellence NANOFUN-POLY, MAGMANET & INDECAT, Florence, Italy, 11th March, 2008 (Invited by Prof. Josè M. Kenny)
 10. **N. E. Zafeiropoulos**, Smart Multifunctional Hybrid Microgels, XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion (Greece), 21-24 September, 2008 (Invited Oral Presentation)
 11. **N. E. Zafeiropoulos**, Synchrotron Radiation in Polymer Science, 14th Symposium of IPF Dresden, Dresden 4-5 November 2009 (Invited Oral Presentation)
 12. **N. E. Zafeiropoulos**, Nanohybrid Materials with Block Copolymers and Nanoparticles, 10th European Symposium on Polymer Blends, Dresden, 7-10 of March 2010 (Invited Keynote Oral Presentation)
 13. **N. E. Zafeiropoulos**, Nanohybrid Materials with block Copolymers and Nanoparticles, 8th International Conference on Nanosciences and Nanotechnologies, Thessaloniki, Greece, 12th – 15th July, 2011 (Invited Keynote Oral Presentation)
 14. **N. E. Zafeiropoulos**, Investigations of structure and properties of nanohybrids using thermal analysis, 7th Panhellenic Conference on Thermal Analysis and Thermal Calorimetry, Ioannina, Greece, 27-29 May 2016 (Invited Keynote Oral Presentation)

Experimental Reports for Synchrotron experiments

1. D. Jehnichen, A. Pohlers, **N. E. Zafeiropoulos**, S. Kummer, K. Schneider, D. Lehmann, M. Stamm, Scanning x-ray microscopy for polymer applications, ESRF report, February 2002
2. A. Pohlers, **N. E. Zafeiropoulos**, C. Lorenz-Haas, P. Müller-Buschbaum, S. Roth, C. Riekkel, C. Korenberg, A. J. Kinloch, M. Stamm, A study of crack propagation in non- and rubber- toughened epoxy adhesives with the use of scanning micro beam synchrotron radiation, ESRF report, March 2002
3. **N. E. Zafeiropoulos**, A. Pohlers, D. Jehnichen, S. Kummer, S. Roth, M. Burghammer, K. Schneider, R. Weidisch, M. Stamm, A study of the deformation process of triblock poly(styrene-b-butadiene) copolymers with the use of micro focus beam synchrotron radiation *in situ* with tensile testing, ESRF report, March 2003
4. J. A. Schut, **N. E. Zafeiropoulos**, M. Amici, P. Volodin, S. S. Funari, M. Stamm, Reaction induced phase separation (RIPS) in sPS/epoxy resin blends: Investigation by simultaneous SAXS/NIR, HASYLAB year report, 2004

5. **N. E. Zafeiropoulos**, R. J. Davies, K. Schneider, M. Amici, Y. Men, M. Burghammer, M. Stamm, A study of deformation mechanisms in iPP *in situ* with μ WAXS experiments, ESRF report, August 2004
6. **N. E. Zafeiropoulos**, R. J. Davies, K. Schneider, M. Amici, C. Riekkel, M. Stamm, A study of the phenomenon of crazing in glassy polymers through the use of μ SAXS, ESRF report, February 2005
7. **N. E. Zafeiropoulos**, R. J. Davies, K. Schneider, A. Feldman, G. Marom, C. Riekkel, M. Stamm, An Investigation of the interface in composite materials by use of μ SAXS and μ WAXS, ESRF report, February 2005
8. **N. E. Zafeiropoulos**, R. J. Davies, S. Trabelsi, K. Schneider, C. Riekkel, M. Stamm, Deformation and Fracture Properties of Polypropylene: Influence of Chemical Architecture, ESRF report, 2006
9. K. Schneider, **N. E. Zafeiropoulos**, X.-H. Li, Deformation Mechanisms and Morphology of Semicrystalline/Nanoparticle Materials using Time-Resolved WAXS/SAXS, ESRF report, 2007
15. M. Rosenthal, D. V. Anokhin, D. A. Ivanov, and **N. E. Zafeiropoulos**, Investigation of Crystal Transformations in Poly(vinylidene fluoride) with microfocus WAXS/SAXS, ESRF report, 2007

Theses

1. **N. E. Zafeiropoulos**, Characterisation of Coated Glass Fibres Received from Recycled Thermoplastic Composite Materials, MEng Thesis, National Technical University of Athens, 1997 (in Greek)
2. **N. E. Zafeiropoulos**, Engineering and Characterisation of the Interface in Flax/Polypropylene Composite Materials, PhD Thesis, University of London, 2001

Others

1. J. L. Oakeshott, M. Dymond and **N. E. Zafeiropoulos**, Composite Materials based on Natural Fibres, Technical Memorandum for the Centre for Composite Materials (TM99/07)
2. **N. E. Zafeiropoulos**, P. E. Vickers and C. A. Baillie, Assessment of the Interface of Flax/Polypropylene Composites, Executive Report for the EU.

Bibliographic Statistics

Total citations – h index ISI : : **3341 (h=30)**

Total citations – h index Scopus: **3753 (h=30)** ((**Author ID : 6603832566**))

Total citations – h index Google Scholar: **4740 (h=32, i10=50)**