Dr. MARIA VAMVAKAKI

Professor

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Department of Materials Science and Technology
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PERSONAL

Nationality:	Greek/New Zealand
Date and Place of Birth:	16 June 1970, Wellington/New Zealand
Marital Status:	Married with one son

I. EDUCATION/QUALIFICATIONS

October 1994 – February 1998

Doctor of Philosophy (DPhil) 1998 – Polymer Chemistry
School of Chemistry, Physics and Environmental Science,
University of Sussex, Falmer, Brighton, East Sussex, UK
Advisors: Professor Steven P. Armes and Professor Norman C. Billingham (Emeritus)
CASE award sponsors: TAM Ceramics Ltd (A Cookson Company)
Industrial advisor: Dr Ian Thompson
Thesis Title: Controlled Structure Water-Soluble Copolymers: Synthesis, Characterization and Application in High Performance Ceramics

October 1993 – September 1994

Master of Philosophy (MPhil) - Analytical Chemistry
Department of Chemistry, University of Crete, Greece
Advisor: Professor Nikolaos. A. Chaniotakis

October 1989 – June 1993

Bachelor of Chemistry, First Class Honours (BSc (Hons))
Department of Chemistry, University of Crete, Greece
G.P.A.: 8.38 / 10
Diploma Thesis: Transport of High Energy Biological Molecules through a Liquid Organic Phase Membrane Containing a Charged Ionophore
Advisor: Professor Nikolaos. A. Chaniotakis

II. ACADEMIC APPOINTMENTS

December 2018- **Professor of Synthetic Materials Chemistry**
Department of Materials Science and Technology,
University of Crete, Heraklion, Crete, Greece

July 2011-December 2018 **Associate Professor of Synthetic Materials Chemistry**
Department of Materials Science and Technology,
University of Crete, Heraklion, Crete, Greece

March 2011-June 2011 ***Sabbatical at MIT***
Department of Chemical Engineering,
Cambridge, Boston, USA

June 2008-June 2011 **Assistant Professor (tenured) of Synthetic Materials Chemistry**
Department of Materials Science and Technology,
University of Crete, Heraklion, Crete, Greece

October 2004 - May 2008 **Assistant Professor of Synthetic Materials Chemistry**
Department of Materials Science and Technology,
University of Crete, Heraklion, Crete, Greece

September 2002-September 2004 **Visiting Associate Professor (PD 407)**
Department of Materials Science and Technology,
University of Crete, Heraklion, Crete, Greece

September 2001-September 2002 **Visiting Assistant Professor (PD 407)**
Department of Materials Science and Technology,
University of Crete, Heraklion, Crete, Greece

September 1999-September 2000 **Visiting Assistant Professor**
Department of Physical Sciences,
University of Cyprus, Nicosia, Cyprus

III. RESEARCH APPOINTMENTS/EXPERIENCE

January 2009- ***Affiliated Faculty Member***
Institute of Electronic Structure and Laser, F.O.R.T.H.
Heraklion, Crete, Greece

September 2001-December 2008 ***Research Scientist***
Institute of Electronic Structure and Laser, F.O.R.T.H.
Heraklion, Crete, Greece

June 2002-September 2004 ***Visiting Scientist***
School of Chemistry, Physics and Environmental Science,
University Sussex, Falmer, Brighton, East Sussex, UK
"Synthesis and Characterization of Polyampholytes and Water-Soluble Polymers used in Smart Surfaces and Catalysis of Organic Reactions"

September 2000-September 2001 ***Research Fellow***
Department of Chemistry
University of Cyprus, Nicosia, Cyprus
"Synthesis, Characterization, Modeling and Applications of Model Polymer Networks"

February 2001-May 2001 ***Visiting Scientist***
School of Chemistry, Physics and Environmental Science,
University Sussex, Falmer, Brighton, East Sussex, UK
"Synthesis and Characterization of Water-Soluble Polymeric Surfactants by Atom Transfer Radical Polymerization"

February 1999-September 1999 ***R&D Chemist***
R&D Department of the cosmetic company-Spray-Pack, Athens, Greece
"Development and Improvement of Cosmetic and Household Product Formulations"

September 1997-December 1998 ***Research Fellow***
School of Chemistry, Physics and Environmental Science,
University Sussex, Falmer, Brighton, East Sussex, UK
"Synthesis, Characterization and Solution Properties of Novel Water Soluble Block Copolymers"

IV. HONORS, AWARDS, DISTINCTIONS, FELLOWSHIPS

1. *3rd award in the Panhellenic competition in mathematics* 1985
2. *3rd award in the Cretan competition in Physics* 1987
3. *1st or 2nd high school award yearly* from 1984 to 1989
4. *Human capital and mobility EU fellowship* 1994-1996
5. *Cookson Technology Centre Fellowship* 1994-1997
6. *University of Sussex – PhD Bursary* 1994-1997

7. *D. H. Richards Bursary - Macro Group UK* 1997
8. *"2nd Best Innovation by an Individual Researcher" Award, BMM group, IESL-FORTH for "Photosensitivematerials for two-photon polymerization" Photonics Innovation Village, SPIE Photonics Europe* 2010

V. RESEARCH INTERESTS/SKILLS

Topics

Synthesis/characterization of novel functional monomers/(co)polymers.
Classical living techniques and controlled living free radical polymerization with emphasis on Group Transfer Polymerization (GTP), Atom Transfer Racidal Polymerization (ATRP), Reversible Addition-Fragmentation Chain Transfer (RAFT) Polymerization.
Chemical modification of synthetic (co)polymers.
'Smart', stimuli-responsive polymers.
Synthesis of 'smart' polymer brushes on flat and curved surfaces.
Synthesis of colloidal polymer particles and polymer microgels.
Model polymer networks, Hydrogels.
Water-soluble/amphiphilic polymers. Polyelectrolytes. Polyampholytes.
Supramolecular Assemblies. Micellar structures. Surface modification of assembled nanostructures.
Biomimetic (co)polymers for antiadherent/antimicrobial applications.
Biologically active (co)polymers for biomedical applications (polymers and hydrogels for gene therapy and drug delivery)
Organic/Inorganic hybrid materials.

Techniques

High Vacuum Techniques
Elementary analysis
Static and dynamic light scattering
Surface/Interfacial tensiometry, contact angle measurements
Zeta potential
Thermogravimetric analysis,
Differential scanning calorimetry
Disc centrifuge photosedimentometry (DCP)
Branauer-Emmet-Teller (BET)
Electron microscopies (SEM, TEM)
Atomic force microscopy
Viscometry
Chromatography: Aqueous and Non-aqueous GPC, HPLC, GC-MS, TLC
Spectroscopies: FTIR, UV-VIS, NMR, MS

VI. EDITOR - REVIEWER FOR SCIENTIFIC JOURNALS AND FUNDING ORGANIZATIONS

***Editor**: Materials Science and Engineering C (Elsevier), 2017-*
***Advisory Board Member:** Polymer Chemistry (RSC)*, 2018-

***Referee for International Journals:** ACS Applied Materials & Interface, ACS Books, Acta Biomaterialia, Advanced Materials, Applied Physics A, Materials Science & Processing, Bioconjugate Chemistry, Biomacromolecules, Chemistry of Materials, Composites Science and Technology, Engineering in Life Sciences, European Physical Journal E, European Polymer Journal, eXPRESS Polymer Letters, Journal of Biomaterials Science, Journal of Colloid and Interface Science, Journal of Macromolecular Science, Journal of Materials Chemistr, Journal of Materials Science: Materials in Medicine, Journal of Nanostructured Polymers and Nanocomposites, Journal of Polymer Science Part A: Polymer Chemistry, Journal of Polymer Science Part B: Polymer Physics, Journal of the American Chemical Society, Langmuir, Macromolecular Chemistry & Physics, Macromolecular Rapid Communications, Macromolecules, Materials Chemistry and Physics, Nanoscale Research Letters (NRL), Polymer, Polymer Chemistry, Science, Sensors & Actuators: B. Chemical, Soft Matter, The Journal of Physical Chemistry*

***Referee for Funding Organizations:** National Science Foundation*, U.S.A., *Ontario Centres of Excellence Research – Canada, Greek General Secretariat for Research and Technology, Ministry of Education, University of Patras – Programme "K. Karatheodori", FP7 - NMP-2010-SME-5 (expert evaluator and rapporteur), Scientific expert within the Joint Call on "Innovation" of ERA.Net RUS, FP7-NMP-2012-SMALL-6 (expert evaluator and rapporteur), H2020-NMP-CSA-2014, Israel Science Foundation (ISF), ERA.NET RUS Plus 'S&T Joint Call, M-ERA.NET Calls, H2020-NMP-24-2015, H2020-ERC Advanced 2015, National Centre for Research and Development in Poland, LIDER Programme, National Centre for Research and Development in Poland, INNOCHEM Programme, Netherlands Organization for Scientific Research, Vidi Programme, 2015, Greek General Secretariat for Research and Technology, "Aristeia I", Greek General Secretariat for Research and Technology, Greece-Israel Bilateral programme 2017*

External Reviewer for the EU:
Final review of the "IDECAT" European Network of Excellence (NoE), Messina Siccily, Italy, September 2010
First review of indirect actions of the Project 258909 "Heart-e-Gel", Ghent, Belgium, October 2011
Final review (monitor) of the FP7 Project "CYCLICCO2R", Ghent, Netherlands, December 2016

***Conference Reviewer:** 10th World Biomaterials Congress, 17-22 May 2016, Montreal Canada*

VII. PROFESSIONAL MEMBERSHIP

American Chemical Society (ACS)
Hellenic Polymer Society (treasurer 2006-2012)
Hellenic Polymer Society (Secretary 2012-2016)
Hellenic Polymer Society (Member of the Board 2016-Currently)
Hellenic Society of Chemistry Chartered Chemist and Member

Hellenic Society of Rheology
Royal Society of Chemistry

VIII. FUNDED RESEARCH PROJECTS

1. "Controlled Structure Polymers for Use in High Performance Ceramics"
   Project Director: Prof. S. P. Armes, University of Sussex, Brighton, UK
   Collaborator: Dr. Ian Thompson, Cookson Technology Centre, U.K.
   TAM Ceramics Ltd Research Programme
   Duration: September 1994 – September 1997

2. "Water-Soluble, Ionic Block Copolymers"
   Project Director: Prof. S. P. Armes, University of Sussex, Brighton, UK
   Collaborator: Dr. M. Vamvakaki, University of Sussex, Brighton, UK
   EPSRC - UK
   Reference Number: ROPA GR/L71803
   Duration: September 1997 – September 1998

3. "Synthesis of Polymeric Surfactants by Atom Transfer Radical Polymerization (ATRP)"
   Project Director: Prof. S. P. Armes, University of Sussex, Brighton, UK
   Collaborators: Dr. M. Vamvakaki, University of Sussex, Brighton, UK
   Syngenta AG Research Programme
   Duration: June 2001 – September 2001

4. "Amphiphilic Model Networks"
   Project Director: Prof. C. S. Patrickios, University of Cyprus, Nicosia, Cyprus
   Collaborators: Dr. M. Vamvakaki, University of Cyprus, Nicosia, Cyprus
   University of Cyprus Research Programme
   Duration: September 2000 – September 2003

5. "Environmentally Friendly Emulsions of Pesticides based on Water, using Polymeric Emulsifiers"
   Project Director: Prof. C. S. Patrickios, University of Cyprus, Nicosia, Cyprus
   Collaborators: Dr. M. Vamvakaki, University of Cyprus, Nicosia, Cyprus
   Programme for Young Scientists, PENEK, Research Promotion Foundation, Cyprus,
   Duration: September 2000 – September 2003

6. "Synthesis and Application of Double-Hydrophilic Star Copolymers as Synthetic Carriers for Gene Therapy"
   Project Director: Prof. C. S. Patrickios, University of Cyprus, Nicosia, Cyprus
   Collaborators: Dr. M. Vamvakaki, University of Cyprus, Nicosia, Cyprus
   Programme for Young Scientists, PENEK, Research Promotion Foundation, Cyprus,
   Duration: September 2001 – September 2004

7. "Colloidal Catalysts for Synthesis of Important Vitamins and Fragrant Substances: New Approach, New Advantages"
   Project Director: Prof. S. H. Anastasiadis, FO.R.T.H., Heraklion Crete, Greece
   Collaborators: Dr. M. Vamvakaki, FO.R.T.H., Heraklion Crete, Greece
   Dr. L. M. Bronstein, Nesmeyanov Inst. of Organoelement Compounds, Russia
   Prof. A. R. Khokhlov, Moscow State University, Russia
   Prof. A. N. Semenov, University of Leeds, U. K.
   Prof. E. M. Sulman, Tver Technical University, Russia
   Mr. A. T. Kirsanov, OAO "Belgorodvitaminy", Russia
   NATO Science for Peace Programme
   Reference Number: SfP - 974173
   Total Budget: 18,990,000 Belgian Francs NATO Funding: 12,300,000 Belgian Francs
   FORTH Budget: 10,290,000 Belgian Francs
   Duration: December 1999 - December 2004

8. "Synthesis, Characterization, Modelling and Applications of Amphiphilic Networks by RAFT Polymerization"
   Project Director: Prof. C. S. Patrickios, University of Cyprus, Nicosia, Cyprus
   Collaborators: Dr. M. Vamvakaki, University of Cyprus, Nicosia, Cyprus
   Research Promotion Foundation, Cyprus,
   Duration: September 2004 – September 2006

9. "Hydrolyzable networks based on hydrolyzable cross-linkers: Synthesis, Characterization and Applications"
   Project Director: Prof. C. S. Patrickios, University of Cyprus, Nicosia, Cyprus
   Collaborators: Dr. M. Vamvakaki, University of Cyprus, Nicosia, Cyprus
   Programme for Young Scientists, PENEK, Research Promotion Foundation, Cyprus,

Duration: September 2004 – September 2007

10. "Tailored nanosized metal catalysts for improving activity and selectivity *via* engineering of their structure and local environment"
Coordinator: Prof. Dmitry Yu. Murzin, Åbo Akademi Univ., Turku, Finland
Co-proposers: Profs. S. H. Anastasiadis and M. Vamvakaki, FO.R.T.H., Heraklion Crete, Greece
Prof. E. M. Sulman, Tver State Technical University, Tver, Russia
Prof. M. Che, Université Pierre et Marie Curie, Paris, France
Prof. D. Duka, University of Palermo, Palermo, Italy
Prof. J. H. Bitter, Utrecht Univ., Utrecht, The Netherlands
Dr. U. Dingerdissen, Degussa, Frankfurt, Germany
Specific Targeted Research or Innovation Projects
Reference Number: NMP3-CT-2005-506621 (NANOCAT)
Total Budget: 3.188.000 Euro EU Funding: 1.920.750 Euro
FORTH Budget: 378.000 Euro
Duration: February 2005 – January 2008

11. "Synthesis of organic microcavities for optoelectronic devices"
Project Director: Prof. P. G. Savvidis, Univ. of Crete, Heraklion Crete, Greece
Co-proposers: Prof. N. Pelekanos, Univ. of Crete, Heraklion Crete, Greece
Prof. M. Vamvakaki, Univ. of Crete, Heraklion Crete, Greece
Dr. G. Konstantinidis, FO.R.T.H., Heraklion Crete, Greece
Dr. I. Aperathitis, FO.R.T.H., Heraklion Crete, Greece
Programme Pythagoras II, Ministry of Education and Religious Affairs, Greece
Total Budget: 130.000 Euro
Duration: September 2005 – August 2006

12. "Phenols of industrial wastewaters: detection, conversion, degradation"
Project Director: Prof. S. H. Anastasiadis, FO.R.T.H., Heraklion Crete, Greece
Collaborators: Prof. M. Vamvakaki, FO.R.T.H., Heraklion Crete, Greece
Prof. A. R. Khokhlov, Moscow State University, Russia
Prof. A. Eisenberg, McGill University, Canada
Dr. L. M. Bronstein, Nesmeyanov Inst. of Organoelement Compounds, Russia
Prof. E. M. Sulman, Tver State University, Russia
Prof. K. Zhubanov, Res. Inst. of New Chemical Technologies & Materials, Kazakhstan
Mr. S.Tkachov, Center of Water Technologies, Russia
Prof. M. Nauryzbaev, Kazakh National al-Farabi University, Kazakhstan
NATO Science for Peace Programme
Reference Number: SfP - 981438
Total Budget: 350.000 Euro NATO Funding: 350.000 Euro
FORTH Budget: 26.000 Euro
Duration: November 2005 - December 2010

13. "Development of nanostructured polymer/inorganic hybrids for random lasing applications"
Project Director: Prof. S. H. Anastasiadis, FO.R.T.H., Heraklion Crete, Greece
Co-proposers: Drs. D. Anglos, A. Lappas, & K. Chrissopoulou, FO.R.T.H., Heraklion Crete, Greece
Profs. M. Vamvakaki and P. Trikalitis, Univ. of Crete, Heraklion Crete, Greece
Dr. N. Theophilou, S&B Industrial Minerals S.A., Athens, Greece
Mr. G. Papadopoulos, Analytikes Siskeves S.A., Athens, Greece
Programme for the Improvement of Human Potential 2003 (General Secretariat of Research and Technology, Greece)
Total Budget: 228.000 Euro GSRT Funding: 205.000 Euro
Duration: October 2005 – September 2008

14. "Biochips based on membrane layers for protein analysis"
Project Director: Prof. H. Gizeli, FO.R.T.H., Heraklion Crete, Greece
Co-proposers: Profs. M. Vamvakaki and A. Oikonomou, FO.R.T.H., Heraklion Crete, Greece
G. Kordomatis, G. Kordopatis Ltd Analytical Instruments – Diagnostics, Athens, Greece
Programme for the Improvement of Human Potential 2003 (General Secretariat of Research and Technology, Greece)
Total Budget: 137.208 Euro GSRT Funding: 123.487 Euro
Duration: October 2005 – September 2008

15. "Responsive ABC Triblock Copolymers: Solution Properties and Metal Nanoparticle Formation"
Project Director: Prof. M. Vamvakaki, University of Crete, Heraklion Crete, Greece
University of Crete, The Secretariat of the Research Commitee
Total Budget: 5.500 Euro
Duration: October 2007 – September 2009

16. "Hierarchically Organized Metal Organic Catalysts for Continuous and Multi-batch Processes"
Coordinator: Dr. D. Wolf, Evonik Degussa GmbH, Germany
Co-proposers: Prof. M. Vamvakaki, FO.R.T.H., Heraklion Crete, Greece
Prof. D. Vogt, University of Eindhoven, The Netherlands
Prof. H. C. L. Abbenhuis, Hybrid Catalysis (SME), The Netherlands
Prof. K. Grela, Institute of Organic Chemistry, Polish Academy of Sciences, Poland
Prof. A. Livingston, Imperial College London, UK
Dr. A. Boam, Membrane Extraction Technology Ltd. (SME), UK
Prof. J. Freire, Universidad Nacional de Educación a Distancia, Spain
FP7-NMP-2007-SMALL-1
Reference Number: CP-FP 214095-2 (HiCat)
Total Budget: 3.865.212 Euro EU Funding: 2.647.217 Euro
FORTH Budget: 526.520 Euro
Duration: November 2008 – October 2011

17. "Novel Devices based on Hybrid Materials prepared by Laser-Based Nanoparticle Generation in the presence of Functional Organic Polymers"
Coordinator: Prof. M. Vamvakaki, FO.R.T.H., Heraklion Crete, Greece
Co-proposers: Dr. S. Barcikowski, Laser Zentrum-Hannover e.V., Hannover, Germany
Programme for the promotion of the exchange and scientific cooperation between Greece and Germany, Programme IKYDA 2009
Total Budget: 10.000 Euro
Duration: January 2009 – December 2010

18. "Modern polymer-based catalysts and microflow conditions as key elements of innovations in fine chemical synthesis"
Coordinator: Prof. Dr. Volker Hessel, Institut für Mikrotechnik Mainz GmbH, Germany
Co-proposers: Profs. S. H. Anastasiadis and M. Vamvakaki, FO.R.T.H., Heraklion Crete, Greece
Dr. Christophe Daubie, Sanofi Aventis, France
Dr. Alexandra Grosse-Böwing, Bayer Technology Services R&D, Germany
Dr. Jürgen E. Lang, Evonik Degussa GmbH, Germany
Dr. Olaf Stange, Ehrfeld Mikrotechnik BTS, Germany
Dr. László Ürge, ThalesNano Inc., Hungary
Dr. Vladimir Dovganyuk, Sud-Chemie Alvigo Catalysts, Estonia
Mr. Sven Lindfors, Picosun Oy, Finland
Prof. Dr. Matthias Ballauff, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH, Germany
Prof. Galip Akay, University of Newcastle upon Tyne, UK
Prof. Dr. Claude de Bellefon, Centre National de la Recherche Scientifique, France
Prof. Dr. Lioubov Kiwi-Minsker, Ecole Polytechnique Fédérale de Lausanne, Switzerland
Prof. Dmitry Murzin, Åbo Akademi University, Finland
Prof. D. Duca, University of Palermo, Italy
Dr. Dana Kralisch, Friedrich-Schiller-Universität Jena, Germany
Prof. J. C. Schouten, Eindhoven University of Technology, The Netherlands
Dr. Lyudmila Bronstein, Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Science, Russia
Prof. Esther Sulman, Tver Technical University, Russia
FP7-NMP-2009-LARGE-3
Reference Number: CP-IP 246095-2 (POLYCAT)
Total Budget: 10.063.663 Euro EU Funding: 6.998.220 Euro
FORTH Budget: 493.348 Euro
Duration: September 2010 – August 2013

19. "Responsive Polymer Brushes for the Development of Smart Surface for Biomedical Applications"
Coordinator: Prof. M. Vamvakaki, Department of Materials Science and Technology, University of Crete, Greece
Collaborators: Prof. R. Narain Department of Chemical and Materials Engineering, Faculty of Engineering, University of Alberta, Edmonton, Canada
Prof. C. S. Patrickios, University of Cyprus, Nicosia, Cyprus
Iraklitos II: Programme for the Improvement of Human Potential (Ministry of Education, Greece)
Total Budget: 45,000 Euro
Duration: July 2011 – June 2014

20. "Development of Environmental-friendly Core-shell Particle Dispersions for Coating Applications"
Coordinator: Prof. S. H. Anastasiadis, FORTH-IESL, Heraklion, Crete, Greece
Collaborators: INTERKEM Hellas S. A.

Laboratory of Polymer Reaction Engineering, Chemical Process Engineering Research Institute, Centre for Research and Technology Hellas (CE.R.T.H.), Thessaloniki, Greece

National Programme, Cooperation I
Total Budget: 600.935,90 Euro
FORTH Budget: 180.400,00 Euro
Duration: January 2011 – December 2013

21. "Polymer Nanostructures based on light-responsive polymers: use in light-controlled drug delivery applications"
Project Director: Prof. M. Vamvakaki, University of Crete, Heraklion Crete, Greece
University of Crete, The Secretariat of the Research Commitee
Total Budget: 2.500 Euro
Duration: September 2011 – August 2013

22. "Development of Novel Functional Copolymers and Surfaces with Permanent and/or Controlled released biocidal species"
Coordinator: Prof. I. Kallitsis, Department of Chemistry, University of Patras, Greece
Collaborators: Prof. G. Bokias, Prof. A. Vantarakis, University of Patras, Greece
Dr Ilias Iliopoulos, Laboratoire Matière Molle et Chimie, ESPCI, France
Prof. M. Vamvakaki, Prof. S. H. Anastasiadis, Dr. I. Bitsanis, IESL/FORTH, Greece
Dr. G. Bogiatzis, ICEHT/FORTH, Greece
Prof. G. Hotos, Prof. P. Avramidis, Prof. V. Bekiari, Technical University of Messologi, Messologi, Greece
Thalis: Programme for the Improvement of Human Potential (Ministry of Education, Greece)
Total Budget: 600,000 Euro IESL Budget: 143,088 Euro
Duration: January 2012 – December 2014

23. "Self-assembly and dynamics in metatsable states. From melocular and supramolecular to mesoscopic systems"
Coordinator: Prof. G Floudas, Department of Physics, University of Ioannina, Greece
Collaborators: Prof. Apostolos Avgeropoulos and Prof. M. Kosmas, Department of Materials Science
and Engineering and Department of Chemistry, University of Ioannina, Greece
Dr. Uli Jonas, Prof. Maria Vamvakaki, IESL/FORTH, Greece
Prof. G. Fytas, Prof. D. Vlassopoulos, Dr. B. Loppinet, Dr. V. Harmandaris, University of Crete, Greece
Prof. Th. Theodorou, National Technical University of Athens, Greece
Thalis: Programme for the Improvement of Human Potential (Ministry of Education, Greece)
Total Budget: 521,740 Euro IESL Budget: 79,300 Euro
Duration: September 2011 – August 2014

24. "Glycopolymer Surfaces for Tissue Engineering Applications"
Project Director: Prof. M. Vamvakaki, University of Crete, Heraklion Crete, Greece
University of Crete, The Secretariat of the Research Committee
Total Budget: 2.500 Euro
Duration: July 2014-July 2015

25. *"Nanowire Innovative Light Emitting Devices and Solar Cells"*
Coordinator: Prof. N. Pelekanos, IESL/FORTH, Greece
Collaborators: Dr. Z. Hatzopoulos, Dr. G. Konstantinidis, Dr. E. Aperathitis, Prof. M. Vamvakaki, Prof. G. Kopidakis IESL/FORTH, Greece
Prof. P. Komninou, Dr. G. P. Dimitrakopulos, Nanostructured Materials Microscopy Group, Physics Department of AUTH, Greece
Prof. S. Kennou, Department of Chem. Enginnering, University of Patras, Greece
Dr. B. Daudin, CEA/Grenoble
ΑΡΙΣΤΕΙΑ II Action, 4217-NILES, Ministry of Education & Religious Affairs, Culture & Sports, Greece
Total Budget: 245,000 Euro IESL Budget: Euro
Duration: March 2014 – July 2015

26. *"In vitro assessment of **OSTEO**inductive **BIOMIME**tic and polymeric compo**SI**te biomaterial **S**caffolds for bone tissue repair"*
Coordinator: Dr. M. Chatzinikolaidou, IESL/FORTH, Greece
Collaborators: Prof. M. Vamvakaki, IESL/FORTH, Greece
Prof. C. A. Charitidis, School of Chemical Engineering, National Technical Univeristy of Athens, Greece
ΑΡΙΣΤΕΙΑ II Action, 3438-OSTEOBIOMIMESIS, Ministry of Education & Religious Affairs, Culture & Sports, Greece
Total Budget: 220,000 Euro IESL Budget: 170,000 Euro

Duration: February 2014 – October 2015

27. *"Packed bed reactors with polymer coated particles for calcium sulfate inhibition in seawater desalination"*
Coordinator: YDROMETAL - I. Anifantakis S.A., Heraklion, Crete, Greece
Scientific Coordinator: Prof. M. Vamvakaki, IESL/FORTH, Greece
Collaborators: Dr. K. Vavekis, IESL/FORTH, Greece
Prof. M. Gottlieb, Ben Gurion University, Israel
Dr. David Sherzer, UET Recycling Industrial Water LTD., Israel
"Greece-Israel" Research and Developement Bilateral Programme, Ministry of Education & Religious Affairs, Culture & Sports, Greece
Total Budget: 448,974 Euro IESL Budget: 195,000 Euro
Duration: July 2014 – September 2015

28. *"Directed Colloidal Structure at the Meso-Scale"*
Coordinator: Dirk Aarts, University of Oxford, UK
Collaborators: Roel Dullens, Julia Yeomans, Jonathan Doye, University of Oxford, UK
Pavlik Lettinga, Marisol Ripoll Forschungszentrum Juelich, Germany
Paul Van der Schoot, Technische Universiteit Eindhoven, Netherlands
Eric Grelet, Centre National de la Recherche Scientifique (CNRS), France
George Petekidis, Maria Vamvakaki, Institute of Electronic Structure and Laser - Foundation for Research and Technology IESL-FORTH, Greece
Erik Westerhof, Teijin Aramid, Netherlands
Krassimir Velikov, Unilever R&D, Netherlands
Célia Mercader, Simon Jestin, Canoe-Adera, France
Deniz Gunes, Nestlé, Switzerland
EU Horizon 2020, Marie Skłodowska-Curie Innovative Training Network (ITN)
Grant Agreement No: 641839 (Distruc)
Total Budget: 3,915.595 Euro EU Funding: 3,613,195 Euro
FORTH Budget: 484,774 Euro
Duration: January 2015 – December 2018

29. *"Ultrasensitive chiral detection by signal-reversing cavity polarimetry: applications to in-situ proteomics, single-molecule chirality, HPLC analysis, medical diagnostics, and atmospheric studies"*
Coordinator: Prof. T. P Rakitzis, IESL-FORTH, Greece
Collaborators: Dr. Benoit Loppinet, IESL-FORTH
Prof. Hatice Altug, École polytechnique fédérale de Lausanne, Switzerland
Prof. Grant Ritchie, Department of Chemistry, University of Oxford, UK
Prof. Dmitry Budker, Johannes Gutenberg University, Germany
Dr. Frank Vollmer, Friedrich-Alexander Universität Erlangen-Nürnberg, Germany
Prof. Jonathan Williams, Max Planck Gesellschaft zur Förderung der Wissenschaften E.V. Institut für Chemie, Germany
Dr. Panos Kapetanopoulos, Photek Limited, UK
Prof. Kyriaki Thermos, University of Crete, Department of Medicine and University Hospital, Greece
Dr. Maria Vamvakaki, University of Crete, Department of Materials Science and Technology, Greece
Dr. Maria Kafessaki, University of Crete, Department of Materials Science and Technology, Greece
EU Horizon 2020, FETOPEN-1-2016-2017
Grant Agreement No: 737071 (Ultrachiral)
Total Budget: 3,999,250 Euro EU Funding: 3,999,250 Euro
UOC Budget: 544,750 Euro
Duration: January 2017 – December 2020

30. *"Functional nanomaterials for the isolation of high-added value polyphenols from olive mill wastes"*
Coordinator: Prof. M. Vamvakaki, IESL-FORTH, Greece
KRHPIS II, Ministry of Economics and Development, Greece
Grant No: 5002358
Total Budget: 40,000 Euro
Duration: March 2018 – December 2018

31. *"Novel biostatic surfaces with self-renewal properteis and sensing of their activity"*
Coordinator: Prof. M. Vamvakaki, UOC, Greece
EDBM34, Ministry of Economics and Development, Greece
Grant No: 5006044
Total Budget: 72,100 Euro
Duration: April 2018 – June 2019

32. *"Soft Biocompatible Polymeric NANOstructures: A Toolbox for Novel Generation of NanoPharmaceuticals in OphthaLmology"*
Coordinator: Prof. M. Vamvakaki, UOC, Greece
Collaborators: Prof. Miltiadis Tsilimbaris, UOC, Greece
Dr. Vladimir Aseyev, Helsingin Yliopisto, Finland
Prof. Vitaliy Khutoryanskiy, Univ. Reading, UK
Dr. Oleg Borisov, CNRS, France
Dr. Sergej Filippov, Ustav Makromolecularni Chemie AV CRVVI, Czech Republic
Dr. Johana Kuncova-Kallio, Bionavis Ltd, Finland
Dr. Antonio L. Medina-Castillo, NanoMateriales y Polímeros S.L., Spain
Partner Organizations: Dr. Fernando Carlos Giacomelli, Fundaçã Universidade Federal Do ABC, Brazil
Prof. Andrey Tenkovtsev, Institution of Russian Academy of Sciences Institute of Macromolecular Compounds RAS, Russian Federation
Dr. Sarkyt Kudaibergenov, Institute of Polymer Materials and Technology, Republic of Kazakhstan
Dr. Alexander Vilesov, Delsi Ltd., Russian Federation
EU Horizon 2020, MSCA-RISE-2018
Grant Agreement No: 823883 (NanoPol)
Total Budget: 685,400 Euro
UOC Budget: 142,600 Euro
Duration: March 2019 – February 2022

33. "Innovative polymer greenhouse films via application of functional coatings"
Coordinator: Prof. S.H. Anastasiadis, IESL-FORTH, Greece
Collaborators: Prof. Maria Vamvakaki, UOC, Greece
Dr. Mixalis Kapnistos, Plastika Kritis, Greece
Dr. Nikolaos Katsoulas, Univ. Thessaly, Greece
EPANEK 2014-2020, Ereyno-Kainotomo-Dhmiourgo
Grant Agreement No: T1EΔK-01499-5030174 (INGRECO)
Total Budget: 999,593.71 Euro
UOC Budget: 206,969.65 Euro
Duration: June 2018 – June 2021

34. "Active Flexible Packaging with Antimicrobial Properties for Shelf-life Extension of Selected Greek Cheeses"
Coordinator: Prof. M. Vamvakaki, UOC, Greece
Collaborators: Prof. Anna Psaroulaki, UOC, Greece
Dr. Leyteris Tourasanidis, Xatzopoulos S.A., Greece
Dr. Rosemary Antonomanolaki, Kolios S.A., Greece
EPANEK 2014-2020, Ereyno-Kainotomo-Dhmiourgo
Grant Agreement No: T1EΔK-04052-5033642 (EYZHN)
Total Budget: 817,446.17 Euro
UOC Budget: 427,352.17 Euro
Duration: October 2018 – October 2021

35. "Innovative Nanomedicine for Personalized Breast Cancer Therapy Utilizing Superparamagnetically Guided (NY2Ps) Ribonucleoproteins"
Coordinator: Dr. Andreas Ouranidis, ARVO, Greece
Collaborators: Prof. M. Vamvakaki, UOC, Greece
Prof. Vasileios Zaspalis, Aristotle University of Thessaloniki, Greece
Dr. Nikolaos G. Kostomitsopoulos, Biomedical Research Foundation Academy of Athens, Greece
EPANEK 2014-2020, Ereyno-Kainotomo-Dhmiourgo
Grant Agreement No: T1EΔK-02775-5031837 (NY2P)
Total Budget: 989,783.91 Euro
UOC Budget: 87,338.71 Euro
Duration: October 2018 – October 2021

36. "Functional surface treatments using ultra-short pulse laser system FemtoSurf"
Coordinator: Dr. Vidmantas Sakalys, Femtika, Lithuania
Collaborators: Dr. Claus Schnitzler, Amphos, Germany
Prof. Spiros Anastasiadis, Prof. Maria Vamvakaki., Dr. Maria Farsari, Dr. David Grey, IESL, FORTH, Greece
Prof. Anna Valente, Scuola Universitaria Professionaledella Svizzera Italiana, Switzerland
Dr. Paolo, Vagni, Rolla SP Propellers SA, Switzerland
Dr. Miriam Ezbiri, Hilti Aktiengesellschaft, Liechtenstein
Dr. Dario Guffanti, Aerea S.p.A., Italy
Dr. Gaja Laviani, Sintea Plustek SRL, Italy
Dr Tian Long See, The Manufacturing Technology Centre Limited LBG, UK

Dr Patrick Lambelet, Heliotis AG, Switzerland
Dr Dietmar Scharf, Ramteid GMBH, Germany

EU Horizon 2020, ICT-04-2018
Grant Agreement No: 825512 (FemtoSurf)
Total Budget: 7,048,625 Euro
UOC Budget: 422,500 Euro
Duration: January 2019 – December 2021

IX. TEACHING

University of Cyprus (October 1999 – September 2000)

Academic Year	Fall Semester	Spring Semester
1999-2000	• Organic Chemistry III • Laboratory of Organic Chemistry I	• Environmental Chemistry • Laboratory of Analytical Chemistry II

University of Crete (September 2001 -)

Academic Year	Fall Semester	Spring Semester
2001-2002	• Laboratory of General Chemistry	
2002-2004	• Laboratory of General Chemistry	• Materials Synthesis
2004-2008	• Laboratory of Polymer Synthesis and Characterization	• Laboratory of General Chemistry • Polymer Synthesis (undergraduate and graduate course)
2009-2016	• Laboratory of Soft-Matter Synthesis and Characterization • Laboratory of Materials Chemistry (with Dr. G. Armatas)	• Laboratory of General Chemistry • Polymer Synthesis (undergraduate and graduate course) • Soft Matter (graduate course, with D. Vlassopoulos or G. Fytas)
2016-	• Laboratory of Soft-Matter Synthesis and Characterization	• Polymer Synthesis (undergraduate and graduate course) • Soft Matter (graduate course, with D. Vlassopoulos)

Seminars:
Nuclear Magnetic Resonance (NMR) Spectroscopy to colleagues from the industry,
Department of Chemistry, University of Cyprus

Assistant in Instruction, University of Crete*, Heraklion, Crete, Greece*. 1993.
Tutor on the Chromatographic Methods of Analysis of an undergraduate course "Laboratory of Analytical Chemistry"

Assistant in Instruction, University of Crete*, Heraklion, Crete, Greece*. 1991.
Assisted in the instruction of an undergraduate course “Laboratory of General Chemistry”

X. STUDENT SUPERVISION

Doctorates (Ph.D.’s)		
Dr. V. Bütün (training)	Ph.D. 1999	Univ. of Sussex, UK (Supervisor S. P. Armes) now Eskisehir Osmangazi University, Turkey
Dr. L. Bailey (training)	Ph.D. 2001	Univ. of Sussex, UK (Supervisor S. P. Armes)
Dr. S. Hadjiyannakou	Ph.D. 2004	Univ. of Cyprus (with C. S. Patrickios), Presently State Chemistry Laboratory, Nicosia, Cyprus
Dr. T. Georgiou	Ph.D. 2006	Univ. of Cyprus (with C. S. Patrickios), then Department of Bioengineering, Rice University, Houston, TX, USA (with A. G. Mikos), presently Department of Chemistry, University of Hull, UK
Dr. A. Triftaridou	Ph.D. 2006	Univ. of Cyprus (with C. S. Patrickios), then Department of Chemistry, University of Minnesota, Minneapolis USA presently E.S.P.C.I., Paris, France
Dr. A. Mateescu	Ph.D. 2009	Univ. of Crete, presently IESL-FO.R.T.H., Greece
Dr. D. S. Achilleos	Ph.D. 2011	Univ. of Crete presently Department of Chemical Engineering, MIT, USA
Dr. F. Krasanakis	Ph.D. 2015	Univ. of Crete

Dr. P. Falireas	Ph.D. 2015	Univ. of Crete, presently Montpelier France
Dr. E. Kampouraki	Ph.D. 2019	Univ. of Crete
Dr. E. Vasilaki	Ph.D. 2019	Univ. of Crete
Ms. L. Chambon	Ph.D. 2019	Univ. of Crete
Mr. E. Koufakis	Ph.D. Candidate	Univ. of Crete
Ms. M. Psarrou	Ph.D. Candidate	Univ. of Crete

Masters (M.Sc.'s)		
Mr. E. Loizidou	M.Sc. 1997	Univ. of Cyprus (with C. S. Patrickios)
Mr. G. Hadjikallis	M.Sc. 1998	Univ. of Cyprus (with C. S. Patrickios)
Mr. B. Katsamanis	M.Sc. 2003	Univ. of Crete (with S. H. Anastasiadis)
Mr. A. Afratis	M.Sc. 2005	Univ. of Crete (with S. H. Anastasiadis and K. Chrissopoulou)
Ms. D. Palioura	M.Sc. 2005	Univ. of Crete (with S. H. Anastadiadis)
Ms. D. Achilleos	M.Sc. 2008	Univ. of Crete
Mr. K. Xristodoulakis	M.Sc. 2008	Univ. of Crete, presently technichian in our lab
Mr. F. Krasanakis	M.Sc. 2008	University of Crete (with K. Chrissopoulou)
Mr. P. Falireas	M.Sc. 2010	Univ. of Crete
Ms. D. Moatsou	M.Sc. 2011	Univ. of Crete, presently KIT (project leader)
Ms. E. Kampouraki	M.Sc. 2012	Univ. of Crete, (with M. Farsari)
Ms. Ch. Flouraki	M.Sc. 2014	Univ. of Crete
Ms X. Orfanou	M.Sc. 2014	Univ. of Crete (with S. H. Anastasiadis)
Ms. M. Bergaki	M.Sc. 2015	Univ. of Crete
Ms N. Hliadi	M.Sc. 2018	Univ. of Crete
Ms M. Psarrou	M.Sc. 2018	Univ. of Crete
Mr Kostas Parkatzidis	M.Sc. 2018	Univ. of Crete, now ETH, Zurich, Switzerland

Undergraduate Senior Thesis		
Ms. A. Triftaridou	Senior Thesis	Univ. of Cyprus (with C. S. Patrickios), B.S. 2000
Ms. E. Demosthenous	Senior Thesis	Univ. of Cyprus (with C. S. Patrickios), B.S. 2000
Mr. S. Georgiadis	Senior Thesis	Univ. of Cyprus (with C. S. Patrickios), B.S. 2001
Ms. T. Georgiou	Senior Thesis	Univ. of Cyprus (with C. S. Patrickios), B.S. 2001
Ms. M. Kyriakou	Senior Thesis	Univ. of Cyprus (with C. S. Patrickios), B.S. 2001
Ms. A.-M. Christoforou	Senior Thesis	Univ. of Cyprus (with C. S. Patrickios), B.S. 2001
Ms. T. Afchoudia	Senior Thesis	Univ. of Crete (with S. H. Anastasiadis), B.S. 2003
Mr. K. Xristodoulakis	Senior Thesis	Univ. of Crete, B.S. 2006
Mr. F. Krasanakis	Senior Thesis	Univ. of Crete (with K. Chrissopoulou), B.S. 2006
Mr. N. Manolakios	Senior Thesis	Univ. of Crete, B.S. 2006
Mr. P. Falireas	Senior Thesis	Univ. of Crete, B.S. 2007
Ms. A. Giakoumaki	Senior Thesis	Univ. of Crete (with M. Farsari), B.S. 2008
Ms. D. Moatsou	Senior Thesis	Univ. of Crete, B.S. 2009
Ms. E. Kampouraki	Senior Thesis	Univ. of Crete (with M. Farsari), B.S. 2008
Mr. K. Stoikos	Senior Thesis	Univ. of Crete, B.S. 2012
Mr. G. Perrakis	Senior Thesis	Univ. of Crete, B.S. 2012
Mr. A. Papadopoulos	Senior Thesis	Univ. of Crete, B.S. 2014
Mr. N. Kokolakis	Senior Thesis	Univ. of Crete, B.S. 2015
Mr. D. Terzakis	Senior Thesis	Univ. of Crete, B.S. 2016
Ms. E. Tsana	Senior Thesis	Univ. of Crete, B.S. 2016
Ms. K. Myrtollari	Senior Thesis	Univ. of Crete, B.S. 2016
Ms. M. Psarrou	Senior Thesis (not presented)	Univ. of Crete, B.S. 2016
Ms. D. Mpalasaki	Senior Thesis	Univ. of Crete, B.S. 2017
Mr. X. Aleksoglou	Senior Thesis	Univ. of Crete, B.S. 2017
Mr. K. Parkatze	Senior Thesis	Univ. of Crete, B.S. 2017
Ms. M. Stratantonaki	Senior Thesis	Univ. of Crete, B.S. 2017
Mr. N. Konios	Senior Thesis	Univ. of Crete

XI. POST-DOCTORAL FELLOW SUPERVISION

Dr. G. Pasparakis	Ph.D. 2008, University of Nottingham	2009 - 2011
Dr. A. Mateescu	Ph.D. 2009, Univ. of Crete	2009 - 2010
Dr. Daniel Gherca	Ph.D. 2012	2014 - 2015
Dr. Th. Manouras	Ph.D. 2012, Univ. of Athens	2013 -

Dr. M. Kaliva	Ph.D. 2004, Univ. of Crete	2005 -
Dr. E. Kampouraki	Ph.D. 2019, Univ. of Crete	2019-
Dr. E. Vasilaki	Ph.D. 2019, Univ. of Crete	2019-

XII. PUBLISHED WORK

1. PUBLICATIONS IN REFEREED JOURNALS

1. **M. Vamvakaki,** N. A. Chaniotakis*
"Solid-contact ion-selective electrode with stable internal electrode"
Analytica Chimica Acta **1996,** *320*(1), 53.

2. V. Butun, C. E. Bennett, **M. Vamvakaki,** A. B. Lowe, N. C. Billingham, S. P. Armes*
"Selective Betainisation of Tertiary Amine Methacrylate Block Copolymers"
J. Mater. Chem. **1997,** *7*(9), 1693.

3. **M. Vamvakaki**, N. C. Billingham, S. P. Armes*
"Synthesis of Novel Block and Statistical Methacrylate-based Ionomers Containing Acidic, Basic or Betaine Residues"
Polymer **1998,** *39*, 2331.

4. **M. Vamvakaki,** N. C. Billingham, S. P. Armes*
"Synthesis of water-soluble statistical copolymers and terpolymers containing pendent oligo(ethylene glycol derivatives)"
Polymer **1999,** *40*, 5161.

5. **M. Vamvakaki,** N. C. Billingham, S. P. Armes*
"Synthesis of Controlled Structure Water-Soluble Diblock Copolymers via Oxyanionic Polymerization"
Macromolecules **1999,** *32*, 2088.

6. V. Bütün, **M. Vamvakaki,** N. C. Billingham, S. P. Armes*
"Synthesis and aqueous solution properties of novel neutral/acidic block copolymers"
Polymer **2000,** *41,* 3173.

7. A. B. Lowe, **M. Vamvakaki,** M. A. Wassall, L. Wong, N. C. Billingham, S. P. Armes, A. W. Lloyd*
"Well-defined Sulfobetaine-based Statistical Copolymers as Potential Anti-bioadherent Coatings"
J. Biomed. Mater. Res. **2000,** *52,* 88.

8. M. V. de Paz Báñez, K. L. Robinson, **M. Vamvakaki**, S. F. Lascelles, S. P. Armes*
"Synthesis of Novel Cationic Polymeric Surfactants"
Polymer **2000,** *41,* 8501.

9. M. J. Percy, C. Barthet, J. C. Lobb, M. A. Khan, S. F. Lascelles, **M. Vamvakaki**, S. P. Armes*
"Synthesis and Characterization of Vinyl Polymer-Silica Colloidal Nanocomposites"
Langmuir **2000,** *16,* 6913.

10. **M. Vamvakaki**, C. S. Patrickios*
"Polyelectrolytic Amphiphilic Model Networks in Water: A Molecular Thermodynamic Theory for Their Microphase Separation"
J. Phys. Chem. B **2001,** *105*, 4979.

11. U. Rungsardthong, M. Deshpande, L. Bailey, **M. Vamvakaki,** S. P. Armes, M. C. Garnett, S. Stolnik*
"Copolymers of Amine Methacrylate with poly(ethylene glycol) as Vectors for Gene Therapy"
J. Controlled Release **2001,** *73*(2-3), 359.

12. **M. Vamvakaki**, E. N. Yamasaki, S. C. Hadjiyannakou, C. S. Patrickios*
"Characterization of Hydrophilic Networks Synthesized by Group Transfer Polymerization"
Macromol. Symp. **2001,** *171,* 209.

13. **M. Vamvakaki,** N. C. Billingham,* S. P. Armes, J. F. Watts, S. J. Greaves
"Controlled structure copolymers for the dispersion of high-performance ceramics in aqueous media"
J. Mater. Chem. **2001,** *11*(10), 2437-2444.

14. **M. Vamvakaki,** G.-F. Unali, V. Bütün, S. Boucher, K. L. Robinson, N. C. Billingham, S. P. Armes* "Effect of Partial Quaternization on the Solution Properties of Tertiary Amine-based Polymeric Surfactants: Unexpected Separation of Surface Activity and Cloud Point Behavior" *Macromolecules* **2001,** *34,* 6839.

15. **M. Vamvakaki**, S. C. Hadjiyannakou, E. Loizidou, C. S. Patrickios,* S. P. Armes, and N. C. Billingham "Synthesis and Characterization of Novel Networks with Nano-Engineered Structures: Cross-Linked Star Homopolymers" *Chem. Mater.* **2001,** *13*, 4738-4744.

16. E. Demosthenous, S. C. Hadjiyannakou, **M. Vamvakaki**, C. S. Patrickios* "Synthesis and characterization of polyampholytic model networks: Effects of polymer composition and architecture" *Macromolecules* **2002,** *35*, 2252-2260.

17. A. I. Triftaridou, **M. Vamvakaki**, C. S. Patrickios* "Amphiphilic Diblock and ABC Triblock Methacrylate Copolymers: Synthesis and Aqueous Solution Characterization" *Polymer* **2002,** *43*, 2921-2926.

18. A. I. Triftaridou, S. C. Hadjiyannakou, **M. Vamvakaki**, C. S. Patrickios* "Synthesis, Characterization and Modeling of Cationic Amphiphilic Model Networks: Effects of Polymer Composition and Architecture" *Macromolecules* **2002,** *35*, 2506-2513.

19. **M. Vamvakaki**, C. S. Patrickios* "Synthesis and Characterization of Electrolytic Amphiphilic Model Networks Based on Cross-linked Stars: Effects of Star Architecture" *Chem. Mater.* **2002,** *14*, 1630-1638.

20. M. C. Deshpande, M. C. Garnett, **M. Vamvakaki,** L. Bailey, S. P. Armes, S. Stolnik* "Influence of polymer architecture on the structure of complexes formed by PEG-tertiary amine methacrylate copolymers and phosphorothioate oligonucleotide" *J. Controlled Release* **2002,** *81*(1), 185-199.

21. S. Georgiades, **M. Vamvakaki**, C. S. Patrickios* "Synthesis and characterization of double-hydrophilic model networks based on cross-linked star polymers of poly(ethylene glycol) methacrylate and methacrylic acid" *Macromolecules* **2002,** *35*, 4903-4911.

22. A. I. Triftaridou, **M. Vamvakaki**, C. S. Patrickios, * L. Lue "Synthesis, Characterization and Modeling of ABC Triblock Terpolymers: The Effect of Block Sequence" *Macromol. Symp.* **2002,** *183,* 133-138.

23. A. S. Lee, V. Butun, **M. Vamvakaki,** S. P. Armes, J. A. Pople,* A. P. Gast* "Structure of pH-Dependent Block Copolymer Micelles: Charge and Ionic Strength Dependence" *Macromolecules* **2002,** *35*, 8540-8551.

24. G. Hadjikallis, S. C. Hadjiyannakou, **M. Vamvakaki**, C. S. Patrickios* "Synthesis and Aqueous Solution Characterization of Novel Diblock Polyampholytes Containing Imidazole" *Polymer* **2002,** *43,* 7269-7273.

25. E. Loizou, A. I. Triftaridou, T. K. Georgiou, **M. Vamvakaki**, C. S. Patrickios* "Cationic Double-Hydrophilic Model Networks: Synthesis, Characterization, Modeling and Protein Adsorption Studies" *Biomacromolecules* **2003,** *4,* 1150-1160.

26. M. C. Deshpande, M. C. Davies, M. C. Garnett, P. M. Williams, D. Armitage, L. Bailey, **M. Vamvakaki,** S. P. Armes and S. Stolnik*
"The effect of poly(ethylene glycol) molecular architecture on cellular interaction and uptake of DNA complexes"
J. Controlled Release **2004,** 97(1), 143-156.

27. S. C. Hadjiyannakou, **M. Vamvakaki,** C. S. Patrickios*
"Synthesis, Characterization and Evaluation of Amphiphilic Diblock Copolymer Emulsifiers Based on Hexa(Ethylene Glycol) Methacrylate and Benzyl Methacrylate"
Polymer **2004,** *45,* 3681-3692.

28. S. Couderc-Azouani, J. Sidhu, T. K. Georgiou, D. C. Charalambous, **M. Vamvakaki,** C. S. Patrickios, D. M. Bloor, J. Penfold, J. F. Holzwarth,* E. Wyn-Jones*
"Binding of Sodium Dodecyl Sulfate to Linear and Star Homopolymers of the Nonionic Poly(methoxyhexa(ethylene glycol) methacrylate) and the Polycation Poly(2-(dimethylamino)ethyl methacrylate): Electromotive Force, Isothermal Titration Calorimetry, Surface Tension, and Small-Angle Neutron Scattering Measurements"
Langmuir **2004,** *20,* 6458-6469.

29. M. S. Kyriakou, S.C. Hadjiyannakou, **M. Vamvakaki,** C. S. Patrickios*
"Synthesis, Characterization and Evaluation as Emulsifiers of Amphiphilic-Ionizable Aromatic Methacrylate ABC Triblock Terpolymers"
Macromolecules **2004,** *37,* 7181-7187.

30. T. K. Georgiou, **M. Vamvakaki**, C. S. Patrickios*
"Microphase Separation Under Constraints: A Molecular Thermodynamic Theory for Polyelectrolytic Amphiphilic Model Networks in Water"
Polymer **2004,** *45,* 7341-7355.

31. T. K. Georgiou, **M. Vamvakaki,** C. S. Patrickios, E. N. Yamasaki and L. A. Phylactou*
"Nanoscopic Cationic Methacrylate Star Homopolymers: Synthesis by Group Transfer Polymerization, Characterization and Evaluation as Transfection Reagents"
Biomacromolecules **2004,** *5,* 2221-2229.

32. **M. Vamvakaki,** L. Papoutsakis, V. Katsamanis, T. Afchoudia, P. Fragouli, H. Iatrou, N. Hadjichristidis, S. P. Armes, S. Sidorov, D. Zhirov, V. Zhirov, M. Kostylev, L. M. Bronstein, and S. H. Anastasiadis*
"Micellization in pH-sensitive amphiphilic block copolymers in aqueous media and the formation of metal nanoparticles"
Faraday Discuss. **2005,** *128,* 129-147.

33. A. I. Triftaridou, **M. Vamvakaki,** C. S. Patrickios,* N. Stavrouli, C. Tsitsilianis*
"Synthesis of Amphiphilic $(ABC)_n$ Multiarm Star Triblock Terpolymers"
Macromolecules **2005**, *38,* 1021-1024.

34. L. M. Bronstein,* **M. Vamvakaki,*** M. Kostylev, V. Katsamanis, B. Stein, and S. H. Anastasiadis
"Transformations of Poly(Methoxy hexa(ethylene glycol) methacrylate)-*b*-(2-(Diethylamino)ethyl methacrylate) Block Copolymer Micelles upon Metallation"
Langmuir **2005,** *21,* 9747-9755.

35. T. K. Georgiou, **M. Vamvakaki,** L. A. Phylactou, C. S. Patrickios*
"Synthesis, Characterization, and Evaluation as Transfection Reagents of Double-Hydrophilic Star Copolymers: Effect of Star Architecture"
Biomacromolecules **2005,** *6,* 2990 -2997.

36. **M. Vamvakaki,*** D. Palioura, A. Spyros, S. P. Armes, and S. H. Anastasiadis*
"Dynamic Light Scattering *vs.* ^{1}H NMR Investigation of pH-Responsive Diblock Copolymers in Water"
Macromolecules **2006**, *39,* 5106-5112.

37. A. I. Triftaridou, D. Kafouris, M. **Vamvakaki**, T. K. Georgiou, T. C. Krasia, E. Themistou, N. Hadjiantoniou, C. S. Patrickios*
"Three different types of quasi-model networks: synthesis by group transfer polymerization and characterization"
Polym. Bull. **2007,** *58,* 185-190.

38. S. Biggs,* K. Sakai, T. Addison, A. Schmid, S. P. Armes, **M. Vamvakaki,** V. Butun, G. Webber
"Layer-by-Layer Formation of Smart Particle Coatings using Oppositely Charged Block Copolymer Micelles"
Adv. Mater. **2007,** *19,* 247-250.

39. D. Palioura, S. P. Armes, S. H. Anastasiadis, **M. Vamvakaki***
"Metal Nanocrystals Incorporated within pH-Responsive Microgel Particles"
Langmuir **2007,** *23,* 5761-5768.

40. A. I. Triftaridou, **M. Vamvakaki,** C. S. Patrickios*
"Cationic Amphiphilic Model Networks Based on Symmetrical ABCBA Pentablock Terpolymers: Synthesis, Characterization and Modeling"
Biomacromolecules **2007**, *8,* 1615-1623.

41. **M. Vamvakaki,** C. S. Patrickios,* P. Lindner, M. Gradzielski*
"Amphiphilic Networks Based on Cross-Linked Star Polymers: A Small-Angle Neutron Scattering Study"
Langmuir **2007,** *23,* 10433-10437.

42. K. Sakai, **M. Vamvakaki,** E. G. Smith, E. J. Wanless, S. P. Armes, S. Biggs*
"Adsorption Characteristics of Zwitterionic Diblock Copolymers at the Silica/Aqueous Solution Interface"
J. Colloid Interface Sci. **2008,** *317,* 383–394.

43. K. Sakai, G. B. Webber, C.–D. Vo, E. J. Wanless, **M. Vamvakaki,** V. Bütün, S. P. Armes, S. Biggs*
"Characterization of Layer-by-Layer Self-Assembled Multilayer Films of Diblock Copolymer Micelles"
Langmuir **2008,** *24,* 116-123.

44. **M. Vamvakaki,*** C. S. Patrickios
"Synthesis and Characterization of the Swelling and Mechanical Properties of Amphiphilic Ionizable Model Conetworks Containing *n*-Butyl Methacrylate Hydrophobic Blocks"
Soft Matter **2008,** *4,* 268-276.

45. M. Farsari,* A. Ovsianikov, **M. Vamvakaki,** B. N. Chichkov, C. Fotakis
"Fabrication of three-dimensional photonic crystal structures containing an active nonlinear optical chromophore"
Appl. Phys. A **2008,** *93,* 11-15.

46. A. Ovsianikov, J. Viertl, B. N. Chichkov,* M. Oubaha, B. D. MacCraith, I. Sakellari, A. Giakoumaki, D. Gray, **M. Vamvakaki,** M. Farsari, C. Fotakis
"Two-photon polymerization of hybrid sol-gel materials for photonics applications"
Laser Chemistry **2008,** Article ID 493059.

47. A. Ovsianikov, J. Viertl, B. N. Chichkov,* M. Oubaha, B. MacCraith, I. Sakellari, A. Giakoumaki, D. Gray, **M. Vamvakaki,** M. Farsari and C. Fotakis
"Ultra-low shrinkage hybrid photosensitive material for two-photon polymerization microfabrication"
ACS Nano **2008,** *2,* 2257-2262.

48. S. H. Anastasiadis* and **M. Vamvakaki**
"Synthesis of Metallic Nanoparticles within pH-sensitive Polymeric Matrices"
Int. J. Nanotechnol. **2009,** *6,* 46-70.

49. A. Ovsianikov,* X. Shizhou, B. N. Chichkov, M. Farsari, **M. Vamvakaki** and C. Fotakis

"Shrinkage of microstructures produced by two-photon polymerization of Zr-based hybrid photosensitive materials"
Optics Express **2009,** *17,* 2143-2148.

50. F. Claeyssens,* E. A. Hasan, A. Gaidukeviciute, D. S. Achilleos, A. Ranella, C. Reinhardt, A. Ovsianikov, X. Shizhou, C. Fotakis, **M. Vamvakaki,** B. N. Chichkov and M. Farsari*
"Three-dimensional Biodegradable Structures Fabricated by Two-Photon Polymerization"
Langmuir **2009**, *25,* 3219-3223.

51. K. E. Christodoulakis, D. Palioura, S. H. Anastasiadis and **M. Vamvakaki***
"Metal nanocrystals embedded within polymeric nanostructures: Effect of polymer-metal compound interactions"
Topics in Catalysis: Special Issue **2009**, *52,* 394-411.

52. A. Mateescu, J. Ye, R. Narain and **M. Vamvakaki***
"Synthesis and Characterization of Novel Glycosurfaces by ATRP"
Soft Matter **2009**, *5,* 1621-1629.

53. G. Pasparakis,* **M. Vamvakaki,** N. Krasnogor and C. Alexander*
"Diol-boronic acid complexes integrated by responsive polymers-a route to chemical sensing and logic operations"
Soft Matter **2009**, *5,* 3839-3841.

54. K. E. Christodoulakis, **M. Vamvakaki***
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12. **M. Vamvakaki,**
"Photo-Sensitive Polymeric Materials for Biomedical Applications"
BIONANOTOX 2012, "Biomaterials and Bionanomaterials: Recent Problems and Safety Issues", 3rd Russian-Hellenic Symposium, Heraklion, Crete, Greece, May 2012.

13. S. H. Anastasiadis, M. Kaliva, **M. Vamvakaki,** M. A. Frysali, L. Papoutsakis
"Metallic Nanocatalysts Embedded within pH-responsive Polymeric Nanostructures"
9th Hellenic Polymer Society Symposium, Thessaloniki, Greece, November-December 2012.

14. **M. Vamvakaki**
"Nanostructuring of photosensitive polymers"
3rd Summer Symposium on Nanomaterials and their application to Biology and Medicine,
Poznań, Poland, June 2013.

15. **M. Vamvakaki**
"Photosensitive poltmers for Biomedical Applications"
3rd International Symposium on Controlled/Living Polymerization: From Synthesis to Applications, CLP'14, Antalya, Turkey, May 2014.

16. M. Farsari, M. Vamvakaki
"Quantum Dot Based 3D Photonic Devices"
5th International Conference on Metamaterials, Photonic Crystals and Plasmonics META'14, Singapore, May 2014.

17. M. Farsari, A. Selimis, E. Kabouraki, M. Vamvakaki
"Direct Laser Writing: Principles, Materials and Applications"
XII International Conference on Nanostructured Materials (NANO 2014), Moscow, Russia, July 2014.

18. C. Hadjicharalambous, M. Chatzinikolaidou, R. Narain, **M. Vamvakaki**
"Glycopolymer surfaces for tissue engineering"
248th ACS National Meeting, San Fransisco, CA, U.S.A., August 2014.

19. **M. Vamvakaki**
"Light-triggered Materials in the Biomedical Field"
1st Israel-Greece Joint Meeting on Nanotechnology & Bionanoscience, Tel Aviv, Israel, October 2014.

20. G. Pasparakis, Th. Manouras, P. Argitis and **M. Vamvakaki**
"Photodegradable polymers as biomedical materials"
10th Hellenic Polymer Society Conference, Patras, Greece, December 2014.

21. **M. Vamvakaki**
"Light-sensitive Polymer Nanostructures"
ArmesFest500, Sheffield, UK, 29 July – 1 August, 2015.

22. **M. Vamvakaki (Plenary talk)**
"Photo-sensistive Polymeric Materials"
16th International Conference on Polymers and Organic Chemistry, *POC-16,* Heraklion Crete, Greece, June 2016.

23. **M. Vamvakaki**
"Light-controlled polymers for biomedical applications"
International Nanomedicine Meeting 2016, Mauritius, August 2016.

24. M. Kaliva, A Georgopoulou, E. Mygdali, M. Chatzinikolaidou, and **M. Vamvakaki**
"Chitosan-based graft copolymers for tissue engineering applications"
253rd ACS National Meeting, San Fransisco, CA, U.S.A., April 2017.

25. C. Hadjicharalambous, R. Narain, M. Chatzinikolaidou and **M. Vamvakaki**
"Glycopolymer brushes with cell-recognition properties"
6th International Conference on tissue Engineering in Conjunction with the 3rd International Conference on Regenerative Biomedical Materials, Heraklion, Greece, June 2017.

26. L. Papadimitriou, A. Georgopoulou, M. Kaliva, **M. Vamvakaki,** M. Chatzinikolaidou
"Immunomodulation and osteogenic response on chitosan-grafted-poly(ε-caprolactone) copolymers"
6th International Conference on tissue Engineering in Conjunction with the 3rd International Conference on Regenerative Biomedical Materials, Heraklion, Greece, June 2017.

27. M. Chatzinikolaidou, M. Kaliva, L. Papadimitriou, A. Georgopoulou, E. Mygdali and **M. Vamvakaki**
"Enginenering Biomaterials for bone tissue regeneration"
European Congress and Exhibition on Advanced Materials and Processes - EUORMAT 2017, Thessaloniki, Greece, September 2017.

28. P. Falireas and **M. Vamvakaki**
"Cooperative response of triple-stimuli sensitive diblock copolymers"
International Conference on Advanced Polymers, Biomaterials and Nanomedicine, Mauritius, August 2018.

29. D. S. Achilleos, P. Falireas and **M. Vamvakaki (Keynote talk)**
"Stimuli-responsive core-shell, hollow and Janus hybrid Nanoparticles"
32nd Conference of the European Colloid and Interface Society - ECIS 2018, Ljubljana, Slovenia September 2018.

30. E. Koufakis, Th. Manouras, **M. Vamvakaki (Keynote talk)**
"Contact-Active Bactericidal Polymer Surfaces with Persistent Antimicrobial Functionality"
VII. National Polymer Science &Technology Congress (PBT2018), Eskisehir, Turkey September 2018.

31. **M. Vamvakaki**
"Cooperative response of triple-stimuli sensitive diblock copolymers"
12th Hellenic Polymer Society International Conference, Ioannina, Greece, September-October 2018.

32. **M. Vamvakaki,** M. Kaliva, K. Parkatzidis, L. Papadimitriou, A. Georgopoulou, M. Farsari and M. Chatzinikolaidou
"Design of advanced polymer and hybrid materials for biomedical applications"
TERMIS EU 2019, Rhodes, Greece, May 2019.

33. **M. Vamvakaki**
"Synthesis and characterisation of responsive rod-like colloids"
ArmesFest600, Sheffield, UK, 31 July – 1 August, 2019.

34. **M. Vamvakaki**
"Photo-sensitive, polyacetal-based nano-vehicles for drug delivery"
4th Emerging Polymer Technologies Summit (EPTS'19), Melbourne, Australia, November 2019.

35. **M. Vamvakaki**
"Functional and Responsive Polymer Modified Inorganic Nanoparticles"
International conference "Chemistry of Organoelement Compounds and Polymers 2019", Moscow, Russia, November 2019.

2. CONTRIBUTED PRESENTATIONS

1. N. A. Chaniotakis, J. K. Tsagatakis, **M. Vamvakaki**, K. Jurkschat
"Novel Tin (IV)-Based Potentiometric Phosphate Carriers"
1994 Pittsburgh, Conference and Exposition, Pittcon '94, Illinois, USA, February 27-March 4, 1994.

2. N. A. Chaniotakis, J. K. Tsagatakis, **M. Vamvakaki**, G. Andredakis, S. J. West
"Partitioning of Anions into Lipophilic Organic Phases Determined by Direct Conductivity Measurements"
1995 Pittsburgh Conference and Exposition, Pittcon '95, New Orleans, Louisiana, USA, March 5-10, 1995.

3. **M. Vamvakaki,** S. P. Armes, N. C. Billingham
"Synthesis of Methacrylate-Based Copolymers *via* Group Transfer Polymerization"
Sixth Macro-Group UK Family Meeting-Aspects of Contemporary Polymer Science, Manchester U.K., April 1996.

4. **M. Vamvakaki**, V. Butun, S. P. Armes, N. C. Billingham

"Synthesis and Solution Properties of Novel Hydrophilic-Hydrophilic Block Copolymers *via* Group Transfer Polymerization"
Macro-Group UK Spring Meeting '97 for Younger Researchers, Leeds U.K., April 1997.

5. **M. Vamvakaki,** S. P. Armes, N. C. Billingham
"Synthesis of Methacrylate-Based Copolymers *via* Group-Transfer-Polymerization"
213th ACS National Meeting, San Francisco, CA, USA, August 1997.

6. **M. Vamvakaki,** S. P. Armes, N. C. Billingham
"Synthesis and Characterization of Novel Hydrophilic-Hydrophilic Statistical Copolymers and Terpolymers"
IUPAC International Conference, Gold Coast, Australia, July 1998.

7. 9th Light Scattering University, Santa Barbara, CA, October 1998.

8. L. Bailey, **M. Vamvakaki**, N. C. Billingham, S. P. Armes
"Synthesis and Aqueous Solution Properties of Novel Hydrophilic/Hydrophilic Block Copolymers Based on Tertary Amine Methacrylates and Poly(ethylene oxide)"
218th ACS National Meeting, New Orleans, USA, August 1999.

9. S. C. Hadjiyiannakou, **M. Vamvakaki**, C. S. Patrickios, E. N. Yamasaki, L. A. Phylactou
"Double-Hydrophilic Block Copolymers Bearing Diol and Tertiary Amine Groups: Synthesis, Aqueous Solution Characterization and Potential Application for Gene Therapy"
IUPAC Polymer Congress, Warszaw, Poland, July 2000.

10. **M. Vamvakaki**, E. N. Yamasaki, S.C. Hadjiyannakou, C. S. Patrickios
"Characterization and Modeling of Hydrophilic Networks Synthesized by Group Transfer Polymerization"
15th Polymer Networks Group Meeting, Krakow, Poland, July 2000.

11. **M. Vamvakaki**, C. S. Patrickios
"Polyelectrolytic Amphiphilic Model Networks in Water: Synthesis, Characterization of the Degree of Swelling and Microphase Separation Theory"
ECIS Conference, Patras, Greece, September 2000.

12. S. C. Hadjiyiannakou, **M. Vamvakaki**, C. S. Patrickios, E. N. Yamasaki, L. A. Phylactou
"Double-Hydrophilic Diblock Copolymers Bearing Diol and Tertiary Amine Groups: Synthesis, Aqueous Solution Characterization and Potential Application for Gene Therapy"
ECIS Conference, Patras, Greece, September 2000.

13. C. S. Patrickios, **M. Vamvakaki**
"Polyelectrolytic Amphiphilic Model Networks In Water: Synthesis and Characterization"
221st ACS National Meeting, San Diego, USA, April 2001.

14. E. Loizidou, D. Haralambous, **M. Vamvakaki**, C. S. Patrickios, T. Krasia, M. Antonietti
"AB Diblock and ABC Triblock Amphiphilic Copolymers Containing Fluorine: Synthesis by Group Transfer Polymerization (GTP) and Aqueous Solution Characterization"
221st ACS National Meeting, San Diego, USA, April 2001.

15. S. C. Hadjiyannakou, T. Georgiou, **M. Vamvakaki**, C. S. Patrickios
"Double-Hydrophilic Linear and Star Copolymers Bearing Diol and Tertiary Amine Groups: Synthesis and Aqueous Solution Characterization"
221st ACS National Meeting, San Diego, USA, April 2001.

16. **M. Vamvakaki,** C. S. Patrickios
"Model Networks Based on Cross-linked Star Polymers: Synthesis and Swelling Behavior"
IUPAC 2001, Crete, Greece, October 2001.

17. A. I. Triftaridou, **M. Vamvakaki,** C. S. Patrickios, L. Lue
"Synthesis, Aqueous Solution Characterization, and Modeling of Amphiphilic ABC Triblock Copolymers"

IUPAC 2001, Crete, Greece, October 2001.

18. **M. Vamvakaki,** C. S. Patrickios
"Amphiphilic Model Networks Based on Cross-linked Star Polymers"
Seventh Cyprus-Greece Chemistry Conference, Nicosia, Cyprus, November 2001.

19. S. C. Hadjiyiannakou, **M. Vamvakaki**, C. S. Patrickios, E. Hadjikostas, A. Hadjimanolis, D. E. Soukiouroglou, P. Alexandridis
"Characterization of Poly(ethylene oxide) - block - Poly(propylene oxide) - block - Poly(ethylene oxide) Triblock Copolymers and Their Evaluation as Emulsifiers"
Seventh Cyprus-Greece Chemistry Conference, Nicosia, Cyprus, November 2001.

20. A. I. Triftaridou, **M. Vamvakaki,** C. S. Patrickios, C. Tsitsilianis
"Water-Soluble Linear and Star ABC Triblock Terpolymers: Synthesis and Characterization"
Seventh Cyprus-Greece Chemistry Conference, Nicosia, Cyprus, November 2001.

21. T. Georgiou, S. C. Hadjiyiannakou, **M. Vamvakaki,** C. S. Patrickios
"Synthesis and Aqueous Solution Characterization of Homopolymers and Double - Hydrophilic Block and Star Copolymers Bearing Diol Groups"
Seventh Cyprus-Greece Chemistry Conference, Nicosia, Cyprus, November 2001.

22. A. I. Triftaridou, **M. Vamvakaki,** C. S. Patrickios
"Synthesis, Characterization, and Modeling of ABC Triblock Copolymers"
Seventh Cyprus-Greece Chemistry Conference, Nicosia, Cyprus, November 2001.

23. **M. Vamvakaki**
"Controlled Structure Copolymers for Ceramic Dispersion"
5th Panhellenic Polymer Conference, Heraklion, Crete, December 2001.

24. T, Georgiou, E. Themistou, A. I. Triftaridou, S. C. Hadjiyannakou, **M. Vamvakaki,** C. S. Patrickios,
"Nano-engineered model networks: Synthesis, characterization and modelling"
223rd ACS National Meeting, Orlando, Florida, USA, April 2002.

25. **M. Vamvakaki,** A. I. Triftaridou and C. S. Patrickios
"Synthesis, Characterization and Modeling of Polyelectrolytic Amphiphilic Model Hydrogels"
Molecular Order and Mobility in Polymer Systems, 4th International Symposium, St. Petersburg, Russia, June 2002.

26. **M. Vamvakaki,** C. S. Patrickios, S. P. Armes, N. C. Billinham, and S. H. Anastasiadis
"Electrolytic Crosslinked Star Polymers in Water: Synthesis and Characterization of the Degree of Swelling"
International Conference on Polymer Synthesis, Warwick, U.K., July 2002.

27. L. Papoutsakis, P. Fragouli, **M. Vamvakaki,** H. Iatrou, S. Sidorov, V. Zhirov, L. Bronstein, N. Hadjichristidis and S. H. Anastasiadis
"The effect of pH on the micellization of PEO-b-P2VP block copolymers in aqueous solution and the formation of metal nanoparticles"
XVIII Panhellenic Conference of Solid-State Physics and Material Science, Crete, Greece, September 2002.

28. **M. Vamvakaki,** C. S. Patrickios, S. P. Armes and N. C. Billingham
"Synthesis, Characterization and Applications of Water Compatible Polymeric Materials"
19th Pan-Hellenic Conference on Chemistry, Heraklion, Greece, November, 2002.

29. L. Papoutsakis, P. Fragouli, **M. Vamvakaki,** H. Iatrou, S. Sidorov, V. Zhirov, L. Bronstein, N. Hadjichristidis, and S. H. Anastasiadis
"Micellization and Metal Nanoparticle Formation in Aqueous Solutions of PEO-b-PV2P Diblock Copolymers as a Function of pH"
19th Pan-Hellenic Conference on Chemistry, Heraklion, Greece, November, 2002.

30. M. Kostylev, L. Bronstein, J. W. Zwanziger, L. Papoutsakis, **M. Vamvakaki,** S. H. Anastasiadis

"Micellar Behavior and Metal Nanoparticle Formation in pH-Sensitive Amphiphilic Block Copolymers in Water"
AIChE Annual Meeting, Indianapolis, IN, USA, November 2002.

31. **M. Vamvakaki,** B. Katsamanis, T. Afchoudia, L. Papoutsakis, S. Sidorov, V. Zhirov, M. Kostylev, S. P. Armes, N. C. Billingham, L. Bronstein, and S. H. Anastasiadis
"pH-Responsive Diblock Copolymers in Aqueous Solution: Micellization and Metal Nanoparticle Formation"
European Science Foundation Conference on Complex Fluid Interfaces, San Feliu de Guixols, Spain, March 2003.

32. A. I. Triftaridou, **M. Vamvakaki**, C. S. Patrickios
"Synthesis and Characterization of Amphiphilic Linear and Star ABC Triblock Copolymers"
225th ACS National Meeting, New Orleans, USA, March 2003.

33. S. C. Hadjiyannakou, **M. Vamvakaki**, C. S. Patrickios
"Synthesis and Characterization of Amphiphilic Diblock Copolymer Emulsifiers"
225th ACS National Meeting, New Orleans, USA, March 2003.

34. S. H. Anastasiadis, **M. Vamvakaki,** L. Papoutsakis, V. Katsamanis, P. Fragouli, H. Iatrou, N. Hadjichristidis, S. Sidorov, V. Zhirov, M. Kostylev and L. Bronstein
"Micellar Behavior and Metal Nanoparticle Formation in pH-sensitive Amphiphilic Block Copolymers in Aqueous Media"
EMCC-3, 3rd Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean, Thessaloniki, Greece, May 2003.

35. V. Katsamanis, L. Papoutsakis, **M. Vamvakaki,** S. Sidorov, V. Zhirov, M. Kostylev, L. Bronstein, and S. H. Anastasiadis
"Micellization and Metal Nanoparticle Formation in Aqueous Solutions of PHEGMA-*b*-PDEAEMA Diblock Copolymers"
4th Panhellenic Chemical Engineering Conference, Patras, Greece, May 2003.

36. **M. Vamvakaki,** S. P. Armes and N. C. Billingham
"Double Hydrophilic Block Copolymers"
4th Panhellenic Chemical Engineering Conference, Patras, Greece, May 2003.

37. T. K. Georgiou, E. N. Yamasaki, L. A. Phylactou, **M. Vamvakaki,** and C. S. Patrickios
"Cationic methacrylate homo- and co-polymer stars: Synthesis, characterization and evaluation as transfection Reagents"
227th ACS National Meeting, Anaheim, USA, March-April 2004.

38. S. H. Anastasiadis, V. Katsamanis, T. Afchoudia, M. Vamvakaki, S. Sidorov, M. Kostylev and L. Bronstein
"Aqueous Solution Behavior and Metal Nanoparticle Formation in pH-responsive Amphiphilic Diblock Copolymers"
General Meeting 04, American Physical Society, Montreal, Canada, March 2004.

39. **M. Vamvakaki,** V. Katsamanis, L. Papoutsakis, S. H. Anastasiadis, S. Sidorov, V. Zhirov, M. Kostylev and L. Bronstein
"Aqueous Solution Properties of pH-responsive PHEGMA-*b*-PDEAEMA Diblock Copolymers and the Formation of Colloidal Metal Particles"
International Conference "Modern Trends in Organoelement and Polymer Chemistry" (INEOS 50), Russian Academy of Sciences, Moscow, Russia, May-June 2004.

40. **M. Vamvakaki**
"Functional copolymers as ceramic dispersants in aqueous media"
From Hard to Ultrasoft Colloids (HUSC), Koutouloufari, Crete, Greece, June 2004.

41. **M. Vamvakaki,** V. Katsamanis, L. Papoutsakis, S. H. Anastasiadis, M. Kostylev and L. Bronstein
"pH-Sensitive Diblock Copolymers: Aqueous Solution Properties and the Formation of Platinum Metal Nanoparticles"

From Hard to Ultrasoft Colloids (HUSC), Koutouloufari, Crete, Greece, June 2004.

42. M. Vamvakaki, V. Katsamanis, L. Papoutsakis, T. Afchoudia, S. H. Anastasiadis, P. Fragouli, H. Iatrou, N. Hadjichristidis, S. P. Armes, S. Sidorov, D. Zhirov, V. Zhirov, M. Kostylev and L. Bronstein
"Micellar Behavior and Metal Nanoparticle Formation in pH-sensitive Amphiphilic Block Copolymers in Aqueous Media"
128th Faraday Discussion on "Self-Organising Polymers", University of Leeds, U.K. July 2004.

43. C. S. Patrickios, T. K. Georgiou, E. Themistou, E. N. Yamasaki, **M. Vamvakaki** and L. A. Phylactou
"Polymethacrylate Stars as Synthetic Gene Delivery Vehicles"
2nd International Conference on Tissue Engineering, Crete, Greece, May 2005.

44. **M. Vamvakaki,** D. Palioura, A. Spyros, and S. H. Anastasiadis
"Responsive Polymeric Materials and Formation of Metal Nanocrystals"
5th Panhellenic Chemical Engineering Conference, Thessaloniki, Greece, May 2005.

45. S. H. Anastasiadis, **M. Vamvakaki,** D. Palioura, V. Katsamanis, T. Afchoudia, A. Spyros, M. Kostylev, L. M. Bronstein
"Formation of Colloidal Metal Nanoparticles in pH-sensitive Polymer Microgels"
European Polymer Congress 2005 European Polymer Federation, Moscow, Russia, June 2005.

46. C. S Patrickios, **M. Vamvakaki,** A. I. Triftaridou, E. Themistou, T. K. Georgiou, D. Kafouris, N. Hadjiantoniou, M. Karbarz
"Three Different Types of Polymethacrylate Model Networks: Synthesis, Characterization and Modelling"
Polymer Gels and Networks on the occasion of 75th birthday of Prof. Karel Dusek, 44th Microsymposium on Macromolecules, Prague, Czech Republic, July 2005.

47. G. B. Webber, K. Sakai, E. J. Wanless, S. P. Armes, **M. Vamvakaki,** V. Bütün, S. Biggs
"Preparation, Characterisation and Utilisation of Diblock Copolymer Micelle Thin-Films and Multilayers"
7th World Congress of Chemical Engineering, Glasgow, United Kingdom, July 10-14, 2005.

48. K. Sakai, G. B. Webber, V. Bütün, **M. Vamvakaki,** S. P. Armes, S. Biggs
"Self-Assembled Diblock Copolymers as Nanomaterial Building Blocks"
7th World Congress of Chemical Engineering, Glasgow, United Kingdom, July 10-14, 2005.

49. A. Afratis, **M. Vamvakaki,** K. Chrissopoulou, S. H. Anastasiadis
"Hydrophilic organic/inorganic nanocomposites"
XXI Panhellenic Conference of Solid State Physics and Material Science, Nicosia, Cyprus, August 2005.

50. **M. Vamvakaki**, S. H. Anastasiadis, T. K. Georgiou, C. S. Patrickios
"pH-responsive Polymer Hydrogels: Synthesis, Characterization and Metal Nanoparticle Formation"
International Symposium on Polymer Conetworks, Gels and Membranes, Budapest, Hungary, September 2005.

51. S. H. Anastasiadis, **M. Vamvakaki,** D. Palioura, V. Katsamanis, T. Afchoudia, A. Spyros, M. Kostylev, L. Bronstein
"Micellization of pH-responsive block copolymers and the formation of metal nanocrystals"
Pacifichem 2005, Honolulu, Hawaii, U.S.A., December 2005.

52. T. K. Georgiou, C. S. Patrickios, L. A. Phylactou, **M. Vamvakaki,** E. N. Yamasaki
"Cationic Hydrophilic Homo and Co-Polymer Stars: Synthesis, Characterization and Evaluation as Transfection Reagents"
231st ACS National Meeting, Atlanta, USA, March 2006.

53. S. H. Anastasiadis, **M. Vamvakaki**, D. Palioura, A. Spyros
"The Formation of Metal Nanoparticles in pH-responsive Block Copolymers and Hydrogels"

IUPAC International Symposium on Advanced Polymers for Emerging Technologies, [PSK30], Bexco, Busan, KOREA, October 2006.

54. **M. Vamvakaki**
"Functional Polymeric Materials: Synthesis, Characterization and Applications"
6th Panhellenic Polymer Conference, Patras, Greece, November 2006.

55. T. K. Georgiou, E. N. Yamasaki, L. A. Phylactou, **M. Vamvakaki,** C. S. Patrickios
"Synthetic Polymer Gene Delivery Vehicles: The Case of Polymethacrylate Stars"
6th Panhellenic Polymer Conference, Patras, Greece, November 2006.

56. **M. Vamvakaki,** D. Palioura, S. P. Armes, S. H. Anastasiadis
"Metal Nanocrystals Incorporated within pH-Responsive Microgel Particles"
6th Panhellenic Polymer Conference, Patras, Greece, November 2006.

57. **M. Vamvakaki,** D. Palioura, S. H. Anastasiadis, and S. P. Armes
"Metal nanocrystals incorporated within pH-responsive microgel particles"
General Meeting 07, American Physical Society, Denver, CO, U.S.A*,* March 2007.

58. **M. Vamvakaki,** D. Palioura, S. P. Armes, S. H. Anastasiadis
"pH-responsive Polymer Microgel Particles: Matrices for Metal Nanocrystals"
232nd ACS National Meeting & Exposition, Chicago, IL, USA, March 2007.

59. **M. Vamvakaki**
"Water-Compatible Functional Synthetic Polymers"
6th Panhellenic Chemical Engineering Conference, Athens, Greece, May 2007.

60. E. Pavlopoulou, K. Karagianni, K. Chrissopoulou, **M. Vamvakaki,** S. H. Anastasiadis, M. Moschakou, H. Iatrou, S. Pispas, and N. Hadjichristidis
"Micellization of block copolymers"
6th Panhellenic Chemical Engineering Conference, Athens, Greece, May 2007.

61. A. Ovsianikov, M. Farsari, **M. Vamvakaki,** B. N. Chichkov, C. Fotakis
"Towards the microstructuring of nonlinear and hybrid polymeric materials by two-photon polymerization"
SPIE Optics and Photonics, San Diego, California, USA, 26 - 30 August 2007.

62. M. Farsari, **M. Vamvakaki,** C. Fotakis, A. Ovsianikov, B. N. Chichkov
"3D nonlinear photonic crystals made by 2-photon polymerization"
COLA 2007, 9th International Conference on Laser Ablation, Tenerife, Spain, September 2007.

63. D. S. Achilleos, **M. Vamvakaki (Best Poster Price)**
"Synthesis of Polymer Brushes onto Inorganic Nanoparticles"
XXIII Panhellenic Conference of Solid State Physics and Material Science, Athens, Greece, September 2007.

64. A. Mateescu, **M. Vamvakaki (Best Poster Price)**
"Synthesis and Characterization of Stimuli Responsive Block Copolymer Brushes by Atom Transfer Radical Polymerization"
20th International Symposium on Polymer Analysis and Characterization, Agios Nikolaos, Crete, Greece, October 2007.

65. D. S. Achilleos, **M. Vamvakaki**
"Polymer-Functionalized TiO_2 and ZnO nanoparticles by Atom Transfer Radical Polymerization"
20th International Symposium on Polymer Analysis and Characterization, Agios Nikolaos, Crete, Greece, October 2007.

66. A. Mateescu, D. S. Achilleos, **M. Vamvakaki**
"Synthesis and Characterization of stimuli-responsive polymer brushes on flat and curved surfaces by ATRP"

Controlled/Living Polymerization: From synthesis to applications, CLP-07, Antalya, Turkey, October 2007.

67. M. Farsari, A. Ovsianikov, **M. Vamvakaki,** B. N. Chichkov, C. Fotakis
"Three-dimensional photonic crystals containing a nonlinear optical chromophore"
3rd International Conference on Micro-Nanoelectronics, Nanotechnology & MEMs, Micro&Nano 2007, Athens, Greece, November 2007.

68. D. S. Achilleos and **M. Vamvakaki**
"Surface-Initiated Atom Transfer Radical Polymerization from TiO_2 and ZnO nanoparticles"
Nanoparticles 2008: Synthesis, Properties and Applications of Nanoparticles, Bradford, UK, February 2008.

69. I. Sakellari, C. Reinhardt, A. Giakoumaki, **M. Vamvakaki,** D. Gray, M. Farsari, B. N. Chichkov, and C. Fotakis
"Recent advances in the structuring of novel sol-gel composites by two-photon polymerization"
E-MRS 2008 Spring Meeting, Symposium B, Strasbourg, France, May 2008.

70. D. S. Achilleos and **M. Vamvakaki (Best Poster Price)**
"Synthesis of end-grafted polymer chains from inorganic nanoparticles"
International Fine Particle Research Institute, Annual General Meeting, Hersonissos, Crete, Greece, June 2008.

71. M. Gradzielski, **M. Vamvakaki,** D. Kafouris, C. S. Partickios, P. Lindner
"The Structure of Amphiphilic Networks Based on Cross-linked Star Polymers: Microphase Separation Evidenced by SANS"
19th Polymer Networks Group Meeting, Polymer Networks: Chemistry, Physics, Biology and Applications, Larnaca, Cyprus, June 2008.

72. K. E. Christodoulakis, **M. Vamvakaki**
"pH-Responsive microgel particles"
1st Chemistry Graduate Student Meeting, Greece-Cyprus, Polis Chrisohous, Cyprus, July 2008.

73. D. S. Achilleos, **M. Vamvakaki**
"Synthesis, Characterization and Optical Properties of Polymer Modified Inorganic Nanoparticles"
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, September 2008.

74. K. E. Christodoulakis, **M. Vamvakaki**
"pH-Responsive Microgel Particles"
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, September 2008.

75. V. Katsamanis, **M. Vamvakaki,** S.H. Anastasiadis
"Synthesis and Characterization of Metal Nanoparticles Embedded in Block Copolymer Micelles"
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, September 2008.

76. F. K. Krasanakis, K. Chrissopoulou, **M. Vamvakaki**
"Synthesis, Characterization and Properties of Polystyrene / Layered Silicate Nanocomposites"
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, September 2008.

77. I. Sakellari, A. Giakoumaki, C. Reinhardt, A. Ovsianikov, **M. Vamvakaki,** D. Gray, B. N. Chichkov, M. Farsari, C. Fotakis
"Three-dimensional photonic crystal structures made by 2-photon polymerization"
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, September 2008.

78. C. Reinhardt, A. Gaidukeviciute, N. Gaikoumaki, R. Kiyan, C. Ohrt, S. Passinger, A. Seidel, M. Farsari, **M. Vamvakaki,** B. N. Chichkov

"Linear and nonlinear dielectrically loaded waveguides for guiding of surface plasmon polaritons"
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, September 2008.

79. M. Farsari, C. Reinhardt, I. Sakellari, A. Giakoumaki, A. Ovsianikov, **M. Vamvakaki,** D. Gray, B. N. Chichkov, C. Fotakis
"Three-dimensional direct writing of novel sol-gel composites for photonics applications"
XXIV Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Crete, September 2008.

80. **M. Vamvakaki**
"Responsive Microgel Particles"
7th Hellenic Polymer Conference, Ioannina, September 2008.

81. E. Pavlopoulou, V. Katsamanis, K. Christodoulakis, G. Portale, W. Bras, **M. Vamvakaki,** S. H. Anastasiadis
"Impregnation of pH-Responsive Polymeric Matrices with Metal Nanoparticles"
7th Hellenic Polymer Conference, Ioannina, September 2008.

82. K. Christodoulakis, **M. Vamvakaki**
"Colloidal Microgel Particles Carrying Acidic or Basic Moieties"
7th Hellenic Polymer Conference, Ioannina, September 2008.

83. D. S. Achilleos, D. Moatsou, **M. Vamvakaki**
"End Grafted Polymer Chains onto Inorganic Nanoparticles"
7th Hellenic Polymer Conference, Ioannina, September 2008.

84. A. Mateescu, **M. Vamvakaki**
"Responsive Polymer Brushes on Flat Surfaces by Surface – Initiated Polymerization"
7th Hellenic Polymer Conference, Ioannina, September 2008.

85. A. Ranella, S. Psycharakis, V. Melissanaki, A. Giakoumaki, **M. Vamvakaki,** A. Tosca, S. Kruger-Krasagakis, M. Farsari, C. Fotakis
"3-Dimensional scaffolds for tissue engineering"
1st Panhellenic Conference of research dermatology, Heraklion, Crete, October 2008.

86. D. S. Achilleos, D. Moatsou and **M. Vamvakaki**
"Synthesis and characterization of polymer-functionalized inorganic nanoparticles"
Synthesis and surface modification of nanocolloids, Baiona, Spain, February 2009.

87. S. H. Anastasiadis, V. Zorba, E. Stratakis, M. Barberoglou, E. Spanakis, P. Tzanetakis, C. Fotakis, A. Mateescu, **M. Vamvakaki**
"Biomimetic and responsive artificial surfaces that quantitatively reproduce the water repellency of a Lotus leaf"
General Meeting 09, American Physical Society, Pittsburgh, Pennsylvania, U.S.A., March 2009.

88. S. H. Anastasiadis, E. Stratakis, V. Zorba, M. Barberoglou, E. Spanakis, P. Tzanetakis, C. Fotakis, A. Mateescu, **M. Vamvakaki**
"Biomimetic, water repellent artificial surfaces"
7th Panhellenic Chemical Engineering Conference, Patras, Greece, June 2009.

89. D. S. Achilleos, D. Moatsou and **M. Vamvakaki**
"Synthesis of Polymer-functionalised SiO_2 Nanoparticles by Surface-initiated Atom Transfer Radical Polymerization"
Frontiers in Polymer Science, Mainz, Germany, June 2009.

90. K. E. Christodoulakis and **M. Vamvakaki**
"pH-responsive Homopolymer and Polyampholyte Microgel Particles"
Frontiers in Polymer Science, Mainz, Germany, June 2009.

91. E. Stratakis, M. Barberoglou, A. Pagkozidis, V. Zorba, A. Mateescu, D. S. Achilleos, **M. Vamvakaki,** S. H. Anastasiadis and C. Fotakis
"Multifunctional and responsive surfaces based on fs laser micro/nano structuring of Silicon"
CLEO/IQEC 09, Baltimore, Maryland, U.S.A., May–June 2009.

92. A. Ovsianikov, B. Bhuian, M. Oubaha, B. D. MacCraith, M. Farsari, **M. Vamvakaki,** C. Fotakis, and B. N. Chichkov
"3D Microstructuring of Hybrid Photosensitive Materials by Two-Photon Polymerization Technique for Applications in Photonics"
CLEO/IQEC 09, Baltimore, Maryland, U.S.A., May–June 2009.

93. A. Gaidukeviciute, C. Reinhardt, K. Terzaki, V. Melissinaki, A. Giakoumaki, **M. Vamvakaki,** C. Fotakis, B. N. Chichkov and M. Farsari
"Fabrication of nonlinear and metallic nanostructures for plasmonic applications and metamaterials"
4th International Conference on Surface Plasmon Photonics, Amsterdam, Netherlands, June 2009.

94. A. Mateescu, J. Ye, R. Narain and **M. Vamvakaki**
"Novel Glycosurfaces by Surface-Initiated ATRP"
ICMAT 2009, Singapore, June-July 2009.

95. K. Terzaki, A. Gaidukeviciute, C. Reinhardt, A. Giakoumaki, C. Fotakis, B. N. Chichkov, M. Farsari and **M. Vamvakaki**
"Hybrid and metallic nanostructures fabricated by direct laser writing"
ICMAT 2009, Singapore, June-July 2009.

96. A. Mateescu, J. Ye, R. Narain and **M. Vamvakaki**
"Synthesis and characterization of glycopolymer brushes by surface-initiated ATRP"
42nd IUPAC Congress, Symposium: Soft Matter, Glasgow, UK, August 2009.

97. E. Pavlopoulou, G. Portale, V. Katsamanis, K. Christodoulakis, **M. Vamvakaki** and S. H. Anastasiadis
"A SAXS Characterization of Complex Nanohybrid Systems: Metal Nanoparticle Incorporation within pH-Responsive Polymers"
Synchrotron Radiation in Polymer Science (SRPS 4), Rolduc Abbey, Kerkrade, Netherlands, September 2009.

98. E. Pavlopoulou, G. Portale, V. Katsamanis, K. Christodoulakis, **M. Vamvakaki** and S. H. Anastasiadis
"Following the Synthesis of Metal Nanoparticles within pH-Responsive Micelles and Microgels by SAXS"
XXV Panhellenic Conference on Solid State Physics and Materials Science, Thessaloniki, Greece, September 2009.

99. S. H. Anastasiadis, E. Pavlopoulou, **M. Vamvakaki,** K. Christodoulakis G. Portale and W. Bras
"A SAXS study of the impregnation of pH-responsive polymeric microgels with metal nanoparticles"
General Meeting 10, American Physical Society, Portland, Oregon, U.S.A., March 2010.

100. A. Gaidukeviciute, C. Reinhardt, K. Terzaki, V. Melissinaki, A. Giakoumaki, **M. Vamvakaki,** M. Farsari, B. N. Chichkov, C. Fotakis
"Fabrication of dielectrically-loaded surface plasmon polariton waveguide (DLSPPW) components using linear and nonlinear hybrid sol-gel materials"
SPIE Photonics Europe, Brussels, Belgium, April 2010.

101. I. Sakellari, A. Gaidukeviciute, **M. Vamvakaki,** D. Gray, C. Fotakis, M. Farsari
"3D photonic nanostructures fabricated using direct laser writing"
SPIE Photonics Europe, Brussels, Belgium, April 2010.

102. M. Farsari, **M. Vamvakaki,** BMM group, IESL-FORTH **("2nd Best Innovation by an Individual Researcher" Award)**
"Photosensitive materials for two-photon polymerization"

4th edition of the Photonics Innovation Village, SPIE Photonics Europe, Brussels, Belgium, April 2010.

103. M. Bellec, D. Papazoglou, M. Kaliva, **M. Vamvakaki,** S. Tzortzakis
"Femtosecond laser patterning of linear and nonlinear optical properties in transparent media"
3rd International Symposium on Filamentation "COFIL 2010", Crete, Greece, May-June 2010.

104. T. K. Georgiou, M. A. Ward, P. Knight, M. D. Rikkou, **M. Vamvakaki,** E. N. Yamasaki, L. A. Phylactou, C. S. Patrickios
"Cationic Star Homo- and Co-polymers for Gene Delivery"
3rd International Symposium "Cellular Delivery of Therapeutic Macromolecules", Cardiff, UK, June 2010, *Drug Discovery Today* 2010, *15 (23/24),* 1104.

105. L. Nikoshvili, V. Matveeva, E. Sulman, S. Anastasiadis, **M. Vamvakaki,** I. Tsvetkova, L. Bronstein
"Surface characteristics of polymer solutions as one of the aspects to understanding the polymer-containing catalyst synthesis and behaviour"
XIV International Conference on Surface Forces, Moscow to St. Petersburg, Russia, June, 2010.

106. H. S. Ginis, I. Pentari, A. Pennos, **M. Vamvakaki,** I. Pallikaris
"Post implantation adjustable Intracorneal elements"
10th Aegean Cornea Meeting, Crete, Greece, July 2010.

107. A. Mateescu, J. Ye, R. Narain and **M. Vamvakaki**
"Synthesis and Characterization of Novel Glycosurfaces by ATRP"
MACRO 2010: 43rd IUPAC World Polymer Congress, Glasgow, UK, July 2010.

108. K. E. Christodoulakis and **M. Vamvakaki**
"Amphoteric Core-Shell Microgels: Contraphilic Two Compartment Colloidal Particles"
MACRO 2010: 43rd IUPAC World Polymer Congress, Glasgow, UK, July 2010.

109. A. Mateescu, J. Ye, R. Narain and **M. Vamvakaki**
"Novel Glycosurfaces by surface-initiated ATRP"
240th ACS National Meeting, Boston, MA, USA*,* August 2010.

110. S. H. Anastasiadis, E. Stratakis, M. Barberoglou, V. Zorba, A. Mateescu, D. S. Achilleos, **M. Vamvakaki,** C. Fotakis
"From superhydrophobicity and water repellence to superhydrophilicity: Smart polymer-functionalized surfaces"
240th ACS National Meeting & Exposition, Boston, MA, August 2010.

111. K. E. Christodoulakis and **M. Vamvakaki**
"Contraphilic Core-Shell Microgel Particles"
20th Polymer Networks Group Meeting, Goslar, Germany, August-September 2010.

112. E. Kambouraki, M. Farsari, **M. Vamvakaki,** C. Fotakis
"Functional Hybrid Materials for Two Photon Fabrication of Semiconducting 3D Structures"
PI-51, *H-POL8, 8th Hellenic Polymer Society Symposium,* Hersonissos, Crete, Greece, October 2010.

113. G. Pasparakis, Th. Manouras, A. Selimis, S. Psycharakis, A. Ranella, P. Argitis, **M. Vamvakaki**
"Photodegradable Polymers as Substrates for Post-Culture Cell Patterning"
PI-52, *H-POL8, 8th Hellenic Polymer Society Symposium,* Hersonissos, Crete, Greece, October 2010.

114. G. Pasparakis, K. Stoikos, **M. Vamvakaki**
"Synthesis and Characterization of Responsive Nanoparticles for Homogeneous Catalysis"
PI-53, *H-POL8, 8th Hellenic Polymer Society Symposium,* Hersonissos, Crete, Greece, October 2010.

115. D. Moatsou, D. S. Achilleos, **M. Vamvakaki**
"Bulk Homopolymerization of 2-(Dimethylamino)ethyl methacrylate via Atom Transfer Radical Polymerization"
PI-54, *H-POL8, 8th Hellenic Polymer Society Symposium,* Hersonissos, Crete, Greece, October 2010.

116. D. S. Achilleos, **M. Vamvakaki**
"Multiresponsive Spiropyran-Based Copolymers Synthesized by Atom Transfer Radical Polymerization"
PI-55, *H-POL8, 8th Hellenic Polymer Society Symposium,* Hersonissos, Crete, Greece, October 2010.

117. M. Kaliva, G. E. Zervaki, A. Coustolelos, **M. Vamvakaki**
"Polymer Porphirin Nanoassemblies with Incorporated Gold Nanoparticles"
PI-56, *H-POL8, 8th Hellenic Polymer Society Symposium,* Hersonissos, Crete, Greece, October 2010.
(Best Poster Award in Polymer Chemistry)

118. A. Mateescu, E. Stratakis, M. Barberoglou, C. Fotakis, **M. Vamvakaki,** S. H. Anastasiadis
"Stimuli Responsive Polymer Brushes as Smart Coatings: From Superhydrophobic to Superhydrophilic Surfaces"
PII-74, *H-POL8, 8th Hellenic Polymer Society Symposium,* Hersonissos, Crete, Greece, October 2010.

119. A. Mateescu, J. Ye, R. Narain, **M. Vamvakaki**
"Synthesis and Characterization of Novel Glycosurfaces and their Interactions with Lectins and Cells"
PII-75 *H-POL8, 8th Hellenic Polymer Society Symposium,* Hersonissos, Crete, Greece, October 2010.

120. Th. Manouras, G. Pasparakis, A. Selimis, S. Psycharakis, A. Ranella, **M. Vamvakaki,** P. Argitis
"Laser induced cell patterning using polyacetals as photodegradable substrates"
4th International Conference on Micro- Nanoelectronics, Nanotechnology and MEMS, NCSR Demokritos, Athens, Greece, December 2010.

121. D. Achilleos, **M. Vamvakaki**
"Multiresponsive Copolymers: Synthesis by Atom Transfer Radical Polymerization and Solution Characterization"
241th ACS National Meeting, Anaheim, CA, U.S.A., March 2011.

122. V. Melissinaki, A. Gill, I. Ortega, **M. Vamvakaki,** A. Ranella, C. Fotakis, F. Claeyssens, M. Farsari
"Direct Laser Writing of Polylactide 3D Scaffolds for Neural Tissue Engineering Applications"
ICMAT 2011, Singapore, June-July 2011.

123. F. K. Krasanakis, K. E. Christodoulakis, **M. Vamvakaki**
"pH-Responsive Core-Shell Microgel Nano-Colloids"
MacroGroup UK International Conference on Polymer Synthesis and UKPCF International Conference on Polymer Colloids, Warwick, UK, July 2012.

124. P. G. Falireas, D. Moatsou, **M. Vamvakaki**
"Synthesis and Characterization of Hybrid Janus Nanoparticles"
MacroGroup UK International Conference on Polymer Synthesis and UKPCF International Conference on Polymer Colloids, Warwick, UK, July 2012.

125. D. S. Achilleos, T. A. Hatton and **M. Vamvakaki**
"Photo-Sensitive Polymeric Materials"
9th Hellenic Polymer Society Symposium, Thessaloniki, Greece, November-December 2012.

126. P. G. Falireas, D. Moatsou, **M. Vamvakaki**
"Synthesis and Characterization of Hybrid Janus Nanoparticles"
9th Hellenic Polymer Society Symposium, Thessaloniki, Greece, November-December 2012.

127. F. K. Krasanakis, K. E. Christodoulakis and **M. Vamvakaki**
"Uptake and Release of Ionic Species by pH-Responsive Core – Shell Microgels"
9th Hellenic Polymer Society Symposium, Thessaloniki, Greece, November-December 2012.
(Best Poster Award)

128. F. K. Krasanakis, E. Pavlopoulou, K. E. Christodoulakis, S. H. Anastasiadis and **M. Vamvakaki**
"Formation of Metal Nanoparticles in Polyampholyte Microgels"
9th Hellenic Polymer Society Symposium, Thessaloniki, Greece, November-December 2012.

129. M. Kaliva, Ch. Flouraki, S. H. Anastasiadis and **M. Vamvakaki**
"pH-Responsive Microgels as Nanoreactors for the Synthesis of Catalytically Active Nanoparticles"
9th Hellenic Polymer Society Symposium, Thessaloniki, Greece, November-December 2012.

130. M. Kaliva, G. Armatas and **M. Vamvakaki**
"Microporous Highly Cross-linked Polystyrene Particles for Selective Carbon Dioxide Capture"
9th Hellenic Polymer Society Symposium, Thessaloniki, Greece, November-December 2012.

131. M. A. Frysali, L. Papoutsakis, M. Kaliva, **M. Vamvakaki** and S. H. Anastasiadis
"Nanocatalyst-containing Polymeric Carriers onto Solid Surfaces"
9th Hellenic Polymer Society Symposium, Thessaloniki, Greece, November-December 2012.

132. E. Kabouraki, I. Sakellari, A. Giakoumaki, D. Gray, C. Fotakis, A. Pikulin, N. Bityurin, **M. Vamvakaki,** M. Farsari
"New Approaches into the Fabrication of 3D Photonic Nanostructures"
E-MRS 2013 Spring Meeting, Symposium V, Strasbourg, France, May 2013.

133. E. Kabouraki, I. Sakellari, D. Gray, **M. Vamvakaki** and M. Farsari
"Quantum dot based higher order non-linear photonic devices"
E-MRS 2013 Spring Meeting, Symposium J, Strasbourg, France, May 2013.
(Research Student Price Oral Presentation Award and an Attendance Bursary for Research Students)

134. E. Stratakis, I. Paradissanos, A. Loufardaki, **M. Vamvakaki,** S. H. Anastasiadis and C. Fotakis
"Multifunctional and responsive surfaces based on fs laser micro/nano structuring of silicon"
10th International Conference on Diffusion in Solids and Liquids DSL-2014, Paris, June 2014.

135. E. Kabouraki, I. Sakellari, D. Gray, M. Farsari and **M. Vamvakaki**
"Quantum Dot Based 3D Photonic Devices"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

136. Th. Manouras, G. Pasparakis, P. Argitis and **M. Vamvakaki**
"Photodegradable Acetal Block Copolymer for Drug Delivery"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

137. D. Gherca, D. Tsikritzis, S. Kennou and **M. Vamvakaki**
"Chemical functionalization of inorganic surfaces for organic LEDs applications"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

138. E. Vasilaki, M. Kaliva, D. Vernardou, I. Georgaki, D. Konios, E. Kymakis, **M. Vamvakaki** and N. Katsarakis
"Ag loaded TiO2coupled onto reduced graphene oxide for enhanced visible-light photocatalytic activity"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

139. P. G. Falireas and **M. Vamvakaki**
"Synthesis and characterization of pH-sensitive hybrid janus nanoparticles"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.
(Best Poster Award)

140. Ch. Flouraki, M. Kaliva, G. S. Armatas and **M. Vamvakaki**
"Porous Porphyrin-containing Polymer Nanoparticles for Gas Separation Applications"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

141. M. A. Frysali, C. Orfanou, M. Kaliva, L. Papoutsakis, **M. Vamvakaki** and S. H. Anastasiadis

"Immobilization of nanocatalysts-containing polymeric carriers onto solid surfaces"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

142. A. Georgopoulou, M. Kaliva, **M. Vamvakaki** and M. Chatzinikolaidou
"Enhanced *in vitro* Biological Response of a Chitosan-*graft*-Poly(ε-caprolactone) Copolymer for Bone Repair"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

143. A. Skarmoutsou, D. Dragatogiannis, C. A. Charitidis, M. Kaliva, **M. Vamvakaki,** M. Chatzinikolaidou and C. Pontikoglou
"Nanoindentation analysis and biological characteristics of chitosan-*graft*-poly(ε-caprolactone) copolymer scaffolds"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

144. E. I. Koufakis, Th. Manouras and **M. Vamvakaki**
"Novel Polymer Brushes for Antifouling Surfaces"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

145. F. K. Krasanakis, S. H. Anastasiadis and **M. Vamvakaki**
"pH-responsive Hollow Polymeric Capsules"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

146. Th. Manouras, E. Koufakis, S. H. Anastasiadis and **M. Vamvakaki**
"Synthesis and characterization of diblock copolymers containing antifouling and self-polishing groups"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

147. E. Mygdali, M. Kaliva, **M. Vamvakaki,** C. Pontikoglou and M. Chatzinikolaidou
"Pro-angiogenic features of Wharton's Jelly-derived Mesenchymal stromal cells enhance vascular formation on novel Chitosan-*graft*-Poly(ε-Caprolactone) Copolymer"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

148. A. Nika, Th. Manouras, M. Chatzichristidi, **M. Vamvakaki** and P. Argitis
"Synthesis of PDMAEMA-*b*-PTHPMA copolymers and investigation of their lithographic performance"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

149. M. Kaliva, C. Orfanou, S. H. Anastasiadis and **M. Vamvakaki**
"Controlled synthesis of active metal nanocatalysts within pH-responsive microgel particles"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

150. A. Papadopoulos, M. Kaliva, G. Kaklamani and **M. Vamvakaki**
"Synthesis and Characterization of Biodegradable Copolymers for Tissue Engineering"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

151. D. Terzakis, A. Tsintsifa, Th. Manouras and **M. Vamvakaki**
"Photodegradable Polyacetal-based Cross-linkers"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

152. A. N. Giakoumaki, A. Selimis, **M. Vamvakaki** and M. Farsari

"Synthesis of Iron oxide Nanoparticles for 3D Nanostructure Fabrication"
30th Panhellenic Conference on Solid-State Physics and Materials Science, Heraklion, Crete, Greece, September 2014.

153. E. I. Koufakis, Th. Manouras, S. H. Anastasiadis and **M. Vamvakaki**
"Antifouling surfaces based on quaternized PDMAEMA brushes via atom transfer radical polymerization"
10th Hellenic Polymer Society Conference, Patras, Greece, December 2014.

154. Th. Manouras, E. I. Koufakis, S. H. Anastasiadis and **M. Vamvakaki**
"Functional block copolymers for antifouling surfaces"
10th Hellenic Polymer Society Conference, Patras, Greece, December 2014.
(Third Best Poster Award)

155. M. Kaliva, A. Papadopoulos, Ch. Pontikoglou, M. Chatzinikolaidou, and **M. Vamvakaki**
"Chitosan-graft-poly(ε-caprolactone) copolymers for myocardium tissue engineering"
10th Hellenic Polymer Society Conference, Patras, Greece, December 2014.

156. E. Kabouraki, I. Sakellari, A. Giakoumaki, D. Gray, M. Farsari and **M. Vamvakaki**
"Direct laser writing via two-photon polymerization: New approaches in the fabrication of 3D nanostructures"
10th Hellenic Polymer Society Conference, Patras, Greece, December 2014.

157. Ch. Flouraki, M. Kaliva, G. S. Armatas and **M. Vamvakaki**
"Polystyrene-porphyrin colloidal particles for gas separation"
10th Hellenic Polymer Society Conference, Patras, Greece, December 2014.

158. Th. Manouras, A. Nika, M. Chatzichristidi, **M. Vamvakaki** and P. Argitis
"Block copolymers for lithographic applications"
10th Hellenic Polymer Society Conference, Patras, Greece, December 2014.

159. F. K. Krasanakis, S.H. Anastasiadis and **M. Vamvakaki**
"Stimuli-responsive polymeric capsules"
10th Hellenic Polymer Society Conference, Patras, Greece, December 2014.

160. P. Falireas and **M. Vamvakaki**
"Aqueous solution properties of triple-stimuli responsive block copolymers"
10th Hellenic Polymer Society Conference, Patras, Greece, December 2014.

161. D. Tsikritzis, D. Gherca, S. Kennou, N. Pelekanos, **M. Vamvakaki**
"Nano-Designing of two-dimensional SiO_2 AND GaN Heterostructures"
11th International Conference on Organic Electronics, Erlangen, Germany, June 2015.

162. S. H. Anastasiadis, Th. Manouras, E. Koufakis and **M. Vamvakaki**
"Biocidal and self-polishing surfaces based on hydrolyzable block copolymers"
European Polymer Federation Congress, Dresden, Germany, 2015

162. **M. Vamvakaki**, Th. Manouras, E. Koufakis, S. H. Anastasiadis
"Biocidal block copolymers for self-polishing coating applications"
12th International Conference on Nanosciences & Nanotechnologies (NN15), Thessaloniki, Greece, July 2015.

163. Th. Manouras, K. Chrissopoulou, E. Koufakis, S. H. Anastasiadis and **M. Vamvakaki**
"Quaternization induced microphase separation in biocidal block copolymer thin films"
12th International Conference on Nanosciences & Nanotechnologies (NN15), Thessaloniki, Greece, July 2015.

164. E. Koufakis, Th. Manouras, S. H. Anastasiadis and **M. Vamvakaki**
"Well-defined Quaternized PDMAEMA Brushes as Biocidal Surfaces"
12th International Conference on Nanosciences & Nanotechnologies (NN15), Thessaloniki, Greece, July 2015.

165. E. Mygdali, M. Kaliva, **M. Vamvakaki**, C. Pontikoglou, M. Chatzinikolaidou
"Chitosan-graft-Poly (ε-Caprolactone) Copolymer loaded with Wharton's Jelly-derived Mesenchymal Stromal Cells: an inductive system for angiogenesis in vitro"
12th International Conference on Nanosciences & Nanotechnologies (NN15), Thessaloniki, Greece, July 2015.

166. A. Georgopoulou, M. Kaliva, **M. Vamvakaki**, M. Chatzinikolaidou
"In vitro Biological Response of a Chitosan-graft-poly(ε-Caprolactone) Copolymer for Bone Repair"
12th International Conference on Nanosciences & Nanotechnologies (NN15), Thessaloniki, Greece, July 2015.

167. Th. Manouras and **M. Vamvakaki**
"Novel polyacetal-based photodegradable nanocarriers in anticancer therapy"
EU Research Infrastructure "QualityNano" Meeting, Heraklion, Crete, Greece, July 2015.
(Best Poster Award)

168. P. G. Falireas and **M. Vamvakaki**
"Synthesis and aqueous solution behavior of pH-sensitive hybrid janus nanoparticles"
EU Research Infrastructure "QualityNano" Meeting, Heraklion, Crete, Greece, July 2015.

169. F. K. Krasanakis, S. H. Anastasiadis and **M. Vamvakaki**
"pH-responsive Hollow Polymer Capsules"
EU Research Infrastructure "QualityNano" Meeting, Heraklion, Crete, Greece, July 2015.

170. M. Chatzinikolaidou, A. Georgopoulou, L. Papadimitriou, M. Kaliva and **M. Vamvakaki**
"Evaluation of the immunomodulatory potential of chitosan-grafted-poly(ε-caprolactone) copolymers and their use for bone tissue regeneration"
Front. Bioeng. Biotechnol. Conference 10th World Biomaterials Congress Montreal, Canada, May 2016.

171. Th. Manouras, E. Koufakis, S. H. Anastasiadis and **M. Vamvakaki**
"Tunable surface wettability induced by the rearrangement of functional diblock copolymer brushes"
16th International Conference on Polymers and Organic Chemistry, *POC-16,* Heraklion, Crete, Greece, June 2016.

171. M. Kaliva, A. Georgopoulou, M. Chatzinikolaidou and **M. Vamvakaki**
"Biodegradable Chitosan-based Graft Copolymers for Tissue Engineering Applications"
European Technology Transfer Nanomedicine, ETPN 2016, Heraklion, Greece, October 2016.

172. Th. Manouras and **M. Vamvakaki**
"Dual photo- and acid-degradable polyacetal-based block copolymers in anticancer therapy"
European Technology Transfer Nanomedicine, ETPN 2016, Heraklion, Greece, October 2016.

173. E. Koufakis, Th. Manouras, S. H. Anastasiadis and **M. Vamvakaki**
"Multifaceted Polymer Films Combining Biocidal with Antifouling or Self-Polishing Properties"
2nd Israel-Greece Joint Meeting on Nanotechnology and BioNanoscience, Heraklion, Greece, October 2016.

174. A. Nika, Th. Manouras, P. Argitis, M. Chatzichristidi and **M. Vamvakaki**
"Block copolymers for top-down and bottom-up lithographic applications"
11th Hellenic Polymer Society International Conference, Heraklion, Greece, November 2016.

175. Th. Manouras, E. Koufakis, S. H. Anastasiadis and **M. Vamvakaki**
"Ordered Diblock Copolymers Thin Films with Antimicrobial and Self-renewal Properties"
11th Hellenic Polymer Society International Conference, Heraklion, Greece, November 2016.

176. M. Kaliva, A. Georgopoulou, M. Chatzinikolaidou and **M. Vamvakaki**
"Biodegradable Copolymers Based on Chitosan-*g*-Polylactide for Bone Tissue Engineering"
11th Hellenic Polymer Society International Conference, Heraklion, Greece, November 2016.

177. D. Balasaki, G. Kaklamani, S. H. Anastasiadis and **M. Vamvakaki**
"Physical, Chemical and Biological Properties of Skin Analogues"
11th Hellenic Polymer Society International Conference, Heraklion, Greece, November 2016.

178. E. Koufakis, Th. Manouras, S. H. Anastasiadis and **M. Vamvakaki**
"Semi-Fluorinated Amphiphilic Diblock Copolymer and Mixed Polymer Brushes with Tunable Wettability"
11th Hellenic Polymer Society International Conference, Heraklion, Greece, November 2016.

179. Th. Manouras, K. Mirtollari, M. Chatzichristidi and **M. Vamvakaki**
"Synthesis and Characterization of Photo-triggered Self-immolative Polymers"
11th Hellenic Polymer Society International Conference, Heraklion, Greece, November 2016.

180. M. Psarrou, Th. Manouras and **M. Vamvakaki**
"A Photo-Activated Drug Delivery System Based on an "Unusual" Electron Transfer Sensitization"
11th Hellenic Polymer Society International Conference, Heraklion, Greece, November 2016.

181. E. Vasilaki, N. Katsarakis and **M. Vamvakaki**
"Random copolymers synthesized by RAFT polymerization improve the photocatalytic activity of TiO_2"
11th Hellenic Polymer Society International Conference, Heraklion, Greece, November 2016.

182. E. Kampouraki, I. Sakellari, A. Giakoumaki, D. Gray, M. Farsari and **M. Vamvakaki**
"Direct Laser Writing via Two-Photon Polymerization: New Approaches in the Fabrication of 3D Nanostructures"
11th Hellenic Polymer Society International Conference, Heraklion, Greece, November 2016.

183. Th. Manouras, E. Koufakis, S. Anastasiadis and **M. Vamvakaki**
"Biocidal and Self-Renewal Surfaces Based on Block Copolymer Polyelectrolytes"
Eurofillers - Polymer Blends 2017, Heraklion, Greece, April 2017.

184. E. Vasilaki, N. Katsarakis and **M. Vamvakaki (Best Poster Price)**
"Well-defined Copolymers Synthesized by RAFT Polymerization as Effective Modifiers to Enhance the Photocatalytic Performance of TiO_2"
Eurofillers - Polymer Blends 2017, Heraklion, Greece, April 2017.

185. E. I. Koufakis, Th. Manouras, S. H. Anastasiadis and **M. Vamvakaki**
"Stimuli-Responsive Amphiphilic Diblock Copolymer Brushes with Tunable Wettability"
Eurofillers - Polymer Blends 2017, Heraklion, Greece, April 2017.

186. L. Chambon, L. B. G. Cortes, D. G. A. L. Aarts and **M. Vamvakaki**
"Synthesis and characterization of stimuli-responsive hybrid anisotropic particles"
Eurofillers - Polymer Blends 2017, Heraklion, Greece, April 2017.

187. M. Kaliva, Ch. Flouraki, G. S. Armatas and **M. Vamvakaki**
"Nanoporous Aromatic Polymer Nanoparticles for Selective Gas Separation"
Eurofillers - Polymer Blends 2017, Heraklion, Greece, April 2017.

188. E. Kabouraki, M. Farsari and **M. Vamvakaki**
"Direct Laser Writing: Principles, Materials and Applications"
Eurofillers - Polymer Blends 2017, Heraklion, Greece, April 2017.

189. M. Kaliva, M. Stratantonkaki, A. Georgopoulou, M. Chatzinikolaidou, **M. Vamvakaki**
"Hybrid biodegradable biomaterials based on chitosan-graft-poly(L-lactide)/hydroxyapatide for bone tissue engineering"
6th International Conference on tissue Engineering in Conjunction with the 3rd International Conference on Regenerative Biomedical Materials, Heraklion, Greece, June 2017.

190. E. Mygdali, M. Kaliva, **M. Vamvakaki,** M. Chatzinikolaidou, C. Pontikoglou
"Secretome from Wharton's jelly mesenchymal stem cells enhanced angiogenesis of HUVECs

cultured on a biodegradable chitosan-graft-poly(ε)caprolactone matrix"
6th International Conference on tissue Engineering in Conjunction with the 3rd International Conference on Regenerative Biomedical Materials, Heraklion, Greece, June 2017.

XIV. INVITED LECTURES AT UNIVERSITIES AND RESEARCH CENTERS

1. "Novel Water-Soluble Block Copolymers: Synthesis, Characterization and Evaluation"
Stanford University, October 1998, CA, U.S.A.

2. "Water-Compatible, Polymeric Materials: Synthesis, Characterization and Applications"
Technical University of Crete, April 2005, Chania, Crete, Greece.

3. "Responsive Polymeric Materials: Synthesis, Characterization and Applications"
Osmangazi University, May 2006, Eskisehir Turkey.

4. "Synthesis Characterization and Applications of Functional Polymers"
National Hellenic Research Foundation (NHRF), November 2006, Athens, Greece.

5. "Functional Polymeric Materials: Synthesis, Characterization and Applications"
Rice University, April 2007, Houston, Texas, USA.

6. "Responsive Polymeric Nanomaterials: Synthesis and Self-assembly Characteristics"
University of Patras, February 2008, Patras, Greece.

7. "Responsive Polymeric Nanomaterials for the Functionalization of Nanoparticles"
Laser Zentrum Hannover e.V., June 2009, Hannover, Germany.

8. "Synthesis and Responsive Properties of Functional Polymeric Materials"
Forschungszentrum, November 2009, Jülich, Germany.

9. "*Responsive Polymers as Advanced Nanomaterials*"
MIT, August 2010, Boston, Massachusetts, USA.

10. "*Photo-sensitive Polymeric Materials*"
MIT, June 2011, Boston, Massachusetts, USA.

11. *"Responsive Polymers as Advanced Nanomaterials in Solution and on Surfaces"*
Department of Chemistry, University of Liege, May 2017, Belgium

XV. ORGANIZATION OF CONFERENCES/MEETINGS

1. *H-POL8, 8th Hellenic Polymer Society Symposium*, Hersonissos, Crete, Greece, October 2010
Member of the Programme Committee.
2. *5th Panhellenic Symposium on Porous Materials*, Heraklion, Crete, Greece, June-July 2011
Member of the Organizing Committee.
3. *BIONANOTOX 2012*, "Biomaterials and Bionanomaterials: Recent Problems and Safety Issues", 3rd Russian-Hellenic Symposium, Heraklion, Crete, Greece, May 2012
Member of the Organizing Committee.
4. *9th Hellenic Polymer Society Conference,* Thessaloniki, Greece, 29 November - 01 December 2012
Member of the Scientific Committee.
5. *30th Panhellenic Conference on Solid-State Physics and Materials Science*, Heraklion, Greece, 21 September – 24 September 2014
Member of the Scientific Committee.
6. *11th Hellenic Polymer Society Conference,* Heraklion, Crete, Greece, 3-5 November 2016
Member of the Organizing Committee.
7. *Eurofillers - Polymer Blends 2017*, Heraklion, Crete, Greece, 23-27 April 2017
Member of the Organizing Committee.
8. *Polymers and Organic Chemistry 2018 (POC 2018),* Palavas les Flots, France, 3-7 June 2018, Member of the Scientific Committee.

9. *International Conference on Advanced Polymers, Biomaterials and Nanomedicine,* Mauritius, August 2018, Member of the Organizing Committee.
10. *Okinawa Colloids 2019 - International Conference on Colloid & Surface Science, 70th Anniversary of the Meeting of The Division of Colloid and Surface Chemistry, The Chemical Society of Japan,* November 2019, Member of the Interbnational Advisory Board.

XVI. OTHER ACTIVITIES

External Examiner on Ph.D. Committees:
University of Cyprus, Department of Chemistry
University of Patras, Department of Chemical Engineering
University of Crete, Department of Chemistry
University of Crete, Department of Physics
The University of New South Wales, School of Chemical Engineering
Universita' Degli Studi Di Genova, Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi
University of Liege, Department of Chemistry

Rapporteur for the European Union: EU-SusChem Workshop on *Hybrid Materials, Setting the materials research agenda for Sustainable Chemistry*
Luxembourg, March 2010

2011-2012: Connoisseur of the Specific Configuration of the Programme Committee for the SP 'Cooperation'

2011-2015: Scientific expert of the SEV – Praxi – FORTH cooperation programme on the development of an information network on Bussiness and Technology