

MARGARITA CHATZICHRISTIDI
LECTURER DEPARTMENT OF CHEMISTRY
NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS

CIRICULUM VITAE

ATHENS

January 2018

Curriculum Vitae

MARGARITA CHATZICHRISTIDI

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PERSONAL INFORMATION

Date of Birth: 18 July 1974
Marital Status: Married with a daughter (2014)
Working Address: Laboratory of Industrial Chemistry, Chemistry Department, University of Athens
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EDUCATION

2001-2004: Ph.D., University of Athens, Chemistry Department (December 2004)
Thesis title: "Chemically amplified photosensitive polymeric materials for microsystems fabrication"
Supervisors: Dr. P. Argitis, Research A, Institute Microelectronics, NCSR "Demokritos" and Assistant Professor A. Siakali-Kioulafa, University of Athens
(*Ph.D. scholarship from National Center for Scientific Research "Demokritos"*)

1998-1999: M.Sc.in Polymer Science and Technology, University of Manchester Institute of Science and Technology (UMIST), U.K.
Masters Title: "Investigation of the flow patterns and die swell in capillary rheometers fitted with a slit"
Supervisor: A.K. Wood, Associate Professor, UMIST

1993-1997: B.Sc., in Physics, University of Ioannina

SCHOLARSHIP

2001-2004: Scholarship of the Institute of Microelectronics N.C.S.R. "Demokritos"

PROFESSIONAL & RESEARCH EXPERIENCE

- 28/5/2015:** Assistant Professor, National and Kapodistrian University of Athens, Chemistry Department, Athens, Greece
- 20/5/2009-28/5/2015:** Lecturer, National and Kapodistrian University of Athens, Chemistry Department, Athens, Greece
- 2009-:** Adjunct Researcher, Department of Microelectronics, Institute of Nanoscience and Nanotechnology, N.C.S.R. "Demokritos
- 12/2007-8/2008:** Lecturer (on contract 407/80), National and Kapodistrian University of Athens, Chemistry Department, Athens, Greece
- 6/2007-3/2008:** Post-Doctorate Associate, Cornell University, Department of Material Science and Engineering, Ithaca, New York, USA
Research field: Flexible Electronics
Supervisor: Professor C.K. Ober, Cornell University
- 5/2005-12/2006:** Post-Doctoral Researcher in a collaborated project of the University of Patras (Ass. Prof. C. Christides), Institute of Microelectronics NCSR "Demokritos" (Dr. I. Raptis) and Institute of Materials Science NCSR "Demokritos" (Dr. D. Niarchos).
- 2001-6/2007:** Laboratory assistant of the Technical University of Piraeus. Department of Textiles

SCIENTIFIC INTERESTS

My research / scientific interests fit into the broad area of Microelectronics and micro/nanotechnologies. In particular, the use of lithographic processes based on photosensitive polymeric materials for fabrication of novel Microsystems with a wide range of applications.

My scientific activity can be divided in the following areas:

- **Micromachining**
- **Fabrication of novel devices using non- conventional lithography**
- **Fabrication of microsystems using conventional lithographic patterning methods**
- **Design and characterization of materials suitable for organic electronics**
- **Lithographic evaluation of new materials**

TEACHING EXPERIENCE

- 2007- :** "**Topics in Polymer Science**". Fall semester, undergraduate students 4th year, (co-teaching with G. Sakellariou)
- 2014-:** "**Polymers: Materials for New Applications**". Spring semester, 4th year, (co-teaching with G. Sakellariou)
- 2009-2013 :** "**Physical Industrial Processes (Unit Operation)**". Fall semester, undergraduate students 4th year, (co-teaching with G. Sakellariou)
- 2008- :** "**Use of Polymers in Cutting Edge Technology**". Spring Semester, 1st year graduate students of "Polymer Science and its Applications" (co-teaching with P. Argitis and G. Vougioukalakis)
- 2014-:** Laboratory courses for "**Topics in Polymer Science**". Fall semester, undergraduate students 4th year
- 2009- :** Laboratory courses for "**Polymer Science**". Spring semester, undergraduate students 3rd year
- 2009-:** Laboratory courses for "**Chemical Industrial Processes**". Fall semester, undergraduate students 4th year.
- 2008- :** Laboratory courses for "**Use of Polymers in Cutting Edge Technology**". Spring Semester, 1st year graduate students of "Polymer Science and its Applications"
- 26/6-7/7/2006 and 6-10/6/2005:** Laboratory course, "**Methods in Micro–Nano Technology and Nanobiotechnology**", NanoBio School: "Fabrication of Protein Microarrays using Lithography", Institute of Microelectronics, N.C.S.R. "Demokritos".
- 9/2001-6/2007:** Laboratory Assistant, Department of Textile, Technological Institute (TEI) of Piraeus. Subjects: "**Principles of Dyeing and Refining**" and "**Bleaching and Coloring**"

ADMINISTRATIVE

- Member of the General Committee of Chemistry Department (2009-2010, 2011-2012, 2012-2013, 2013-2014, 2016-2017).
- Member of the Seminar Committee of Chemistry Department (2009-).
- Member of the Social Events Committee of Chemistry Department (2014-)

- Member of the Organizing Committee of 34th International Conference on Micro and Nano Engineering, Athens, Greece 15-18 September 2008.
- Member of the Organizing Committee of the 8th Hellenic Polymer Society Symposium, Hersonissos, Crete, 24-29 October 2010
- Reviewer of the international journals: Microelectronic Engineering (Elsevier), European Polymer Journal (Elsevier) and Macromolecular Research (Springer Journals)

SUPERVISION OF PH.D. THESES

The following Ph.D. theses are in progress

- Fotini Vrettou
“Construction of Bio-Functional Surfaces with Click Chemistry and Photolithography Techniques” (start: 10/2014)
- Fotini Maxairioti
“Surface modification with polymeric photosensitive materials for bio-applications” (start: 12/2015)
- Anastasia Nika
“Polymeric materials suitable for lithography by top-down and bottom-up procedures” (2/2016)
Scholarship for doctoral dissertation of Hellenic Foundation for Research & Innovation (8/2017)

SUPERVISION OF M.SC. THESES

The following M.Sc. theses have been completed:

- Anastasia Giakoumaki
"Synthesis of PEO-b-P(t-BMA) diblock copolymers for top-down and bottom-up lithography"
- Sofia Tzani
"Attachment of photosensitive polymers on substrates"
- Maria-Isidora Georgaki
"Development of multilayer polymer films and their application in photonic and sensors"
- Fotini Vrettou
“Polymer surface modification for covalent binding of biomolecules with azide photochemistry or “click” chemistry” (7/2014)
- Fotini Maxairioti
“Biomolecules patterning using fluorinated polymers and hydrofluoroethers as solvents” (10/2015)
- Anastasia Nika

“Microphase separation of block Copolymers and their use in bottom-up lithography” (10/2015)

- Mathaios Christodouloupoulos

“Development and study of nanocomposite polymer materials with copper oxide nanostructures” (2/2017)

- Sofia Botsi

“Development and Study of Nanocomposite Polymeric Materials with Zinc Oxide Nanostructures” (2/2017)

- Maria Tsoka

“modification of poly (dimethylsiloxane) properties by mixing hydrophilic additive” (2/2017)

- Aikaterini Spilioti

“Development of molecularly imprinted polymers for applications in capacity sensors” (3/2017)

- Lampros Bizas

“Arylsulfonium salts in polymeric matrices as interfacial layers of organic optoelectronic devices” (9/2017)

- Ioanna Kanisoglou

“Synthesis and characterization of poly (ethylene oxide) with poly(benzyl methacrylate) copolymers and their study for lithography applications” (10/2017)

There is one M.Sc. thesis in progress

SUPERVISION OF UNDERGRADUATE THESES

The following undergraduate theses have been completed:

- Aimilia Neroutsou, Marios Elladiou

“Synthesis of Polyacetals with step-growth polymerization and their applications in optical lithography” (2011)

- Athanasios Giannakoulas and Antonis Gizelis

“Synthesis of Polyacetals and study of their photodegradation” (2012)

- Eyripidis Dionisiadis, Grigoris Zanias

“Effect of VUV radiation on moisture absorption of PHEMA hydrophilic films” (9/2014)

- Kalliopi Kalitsounaki, Anastasia Reskou Καλλιόπη Καλιτσουνάκη, Αναστασία Ρέσκου

«Sorptions of polymeric films in the presence of water vapor” (2/2016)

- Anthi Dimou, Aikaterini Ninou

«Synthesis of copper oxide and nickel oxide nanostructures by "green chemistry"” (9/2017)

There is one undergraduate thesis in progress

FOREIGN LANGUAGES

- English
- French

LECTURE NOTES

- “Topics in Polymer Science”, Industrial Chemistry Laboratory, M. Pitsikalis and M. Chatzichristidi

PARTICIPATION IN RESEARCH PROGRAMS

- **“Proton Beam Nanolithography for high aspect ratio structures of optical COMPONENTS”**
Funding: Greece – Singapore cooperation 2006-2008
Project aim: a) the development of patterning technology suitable for the fabrication of sub-quarter micron structures with high aspect ratio and b) the application of this technology to the realization of state of the art optical components suitable for further integration with other micro / nano systems. My personal activity concerns the development and optimization of high aspect ratio strippable lithographic materials with resolution better than 250nm and the optimization of the electroplating process.
- **“Development of negative resist polymers for proton beam micromachining and other lithography processes”** Funding: Greece – Hungary cooperation 2004-2006
Project aim: The development and optimization of a complete patterning process suitable for the fabrication of 3-dimensional structures of thickness in the 10-50 μ m range using Proton Beam Lithography and environment-friendly chemically amplified resists. *Personal Activity:* The development, characterization and optimization of a novel strippable lithographic material for proton beam lithography for the fabrication of high aspect ratio structures. We succeed to fabricate 5 μ m wide lines with an aspect ratio of 6 as well as “lambda” structures that produces microchannels.
- **“Micrometer Scale Patterning of Protein and DNA Chips”** Funding: EU GROWTH 2002-2005
Project aim: The development of techniques and processes for micrometer scale patterning of protein and DNA arrays for the next biochip generation. *Personal Activity:* a) the development,

characterization and optimization of a new lithographic material with special features (low thermal processes, aqueous base developers, high resist contrast and ability for successive lithographic cycles), b) the development of a new lithographic scheme for successive lithographic cycles, including the fabrication of suitable binary masks, c) development of process for aligned deposition of proteins in specially designed electrodes for electrochemical measurements. During the project I visited Universitat Rovira i Virgili, Tarragona, Spain, to help with the installation and operation of a mask-aligner tool and photoresist based protein patterning process.

PUBLICATIONS IN INTERNATIONAL JOURNALS

- A 1. I. Raptis, M. Chatzichristidi, C. Diakoumakos, A. Douvas, D. Niakoula, P. Argitis, “*Application of a novel aqueous base developable resist in micromachining*”, **J. Photopolym. Sci. Technol.** **14**, 445 (2001)
- A 2. G. Pistolis, S. Boyatzis, M. Chatzichristidi and P. Argitis, “*Highly efficient bicolor (green-blue) fluorescence imaging in polymeric films*”, **Chem. Mater.** **14**, 790 (2002)
- A 3. M. Chatzichristidi, I. Raptis, C.D. Diakoumakos, N. Glezos, P. Argitis, M.Sanopoulou, “*Strippable aqueous base developable negative photoresist for high aspect ratio micromachining*”, **Microelectron. Eng.** **61-62**, 729 (2002)
- A 4. M. Chatzichristidi, I. Raptis, P. Argitis J. Everett, “*Partially hydrogenated poly(vinyl phenol) based photoresist for near UV, high aspect ratio micromachining*”, **J. Vac. Sci. Technol. B** **20**, 2968 (2002)
- A 5. I. Rajta, E. Baradacs, M. Chatzichristidi, E.S. Valamontes, I. Uzonyi, I. Raptis, “*Proton beam micromachining on strippable aqueous base developable negative resist*”, **Nucl. Inst. Meth. B** **231/1-4**, 423 (2005)
- A 6. M. Kitsara, M. Chatzichristidi, D. Niakoula, D. Goustouridis, K. Beltsios, P. Argitis, I. Raptis, “*Layer-by-layer UV micromachining methodology of epoxy resist embedded microchannels*”, **Microelectron. Eng.** **83**, 1298 (2006)
- A 7. P.S. Petrou, M. Chatzichristidi, A.M. Douvas, P. Argitis, K. Misiakos, S.E. Kakabakos, “*A biomolecule friendly photolithographic process for fabrication of protein microarrays on polymeric films coated on silicon chips*”, **Biosens. Bioelectron.** **22**, 1994 (2007)
- A 8. I. Rajta, M. Chatzichristidi, E. Baradács, C. Cserhádi, I. Raptis, K. Manoli, E.S.Valamontes, “*Proton beam micromachined buried microchannels in negative tone resist materials*”, **Nucl. Inst. Meth. B** **260**, 414 (2007)
- A 9. M. Chatzichristidi, Th. Speliotis, I. Raptis, I. Haritantis, D. Niarchos, C. Christides, “*Effect of magnetic field on metal-insulator transitions in Bi-wire structures*”, **Microelectron. Eng.** **84**, 1528 (2007)
- A 10. G. Manginas, M. Chatzichristidi, Th. Speliotis, D. Niarchos, “*Exchange Bias in Ferromagnetic – Antiferromagnetic submicron structures*”, **Microelectron. Eng.** **84**, 1536 (2007)
- A 11. E. Sarantopoulou, Z. Kollia, A.C. Cefalas, A.M. Douvas, M. Chatzichristidi, P. Argitis, S. Kobe, “*Polymer self-assembled nano-structures and surface relief gratings induced with laser at 157*

- nm*”, **Appl. Surf. Sci.** **253**, 7884 (2007)
- A 12. M. Kitsara, D. Goustouridis, S. Chatzandroulis, M. Chatzichristidi, I. Raptis, Th. Ganetsos, R. Igreja, C.J. Dias, “*Single chip interdigitated electrode capacitive chemical sensor arrays*”, **Sens. Act. B.**, **127** 1186 (2007)
- A 13. E. Sarantopoulou, Z. Kollia, A.C. Cefalas, A. M. Douvas, M. Chatzichristidi, P. Argitis, S. Kobe, “*Nano-scale spatial control over surface morphology of biocompatible fluoropolymers at 157 nm*”, **Mat. Sci. and Eng. C**, **27** 1191 (2007)
- A 14. I. Raptis, J. Kovač, M. Chatzichristidi, E. Sarantopoulou, Z. Kollia, S. Kobe, A.C. Cefalas “*Enhancement of sensing properties of thin poly(methyl methacrylate) films by VUV surface modification*” **J. Laser Micro/Nanoengineering** **2** 200 (2007)
- A 15. M. Chatzichristidi, I. Rajta, Th. Speliotis, E. Valamontes, D. Goustouridis, P. Argitis, I. Raptis “*Aqueous base developable - easy stripping, high aspect ratio negative photoresist for optical and proton beam lithography*” **Microsyst. Technol.** **14** 1423 (2008)
- A 16. C. Christides, Th. Speliotis, M. Chatzichristidi, I. Raptis “*Large asymmetries of magnetoresistance loops in Co-line structures*” **Microelectron. Eng.** **85** 1382 (2008)
- A 17. M. Chatzichristidi, E. Valamontes, P. Argitis, I. Raptis, J.A. van Kan, F. Zhang, F. Watt “*High-aspect-ratio micro/nano machining with proton beam writing on aqueous developable – easily stripped negative chemically amplified resists*” **Microelectron. Eng.** **85** 945 (2008)
- A 18. P. Theodoni, P. Bayiati, M. Chatzichristidi, Th. Speliotis, V. Em. Vamvakas, I. Raptis, N. Papanikolaou “*Efficient Infrared Emission from Periodically Patterned Thin Metal Films on a Si Photonic Crystal*” **Microelectron. Eng.** **85** 1112 (2008)
- A 19. E. Sarantopoulou, Z. Kollia, M. Chatzichristidi, A. Douvas, P. Argitis, S. Kobe, A.C. Cefalas, “*Dynamics and laser processing of functional fluoride organic surfaces at VUV wavelengths*”, **J. Laser Micro/Nanoengineering**, **3** 24 (2008)
- A 20. C. Christides, Th. Speliotis, M. Chatzichristidi and I. Raptis , “*Magneto-transport properties of [Co/Bi]_n wire structures*”, **J. Magn. Magn. Mater.**, **320** e720 (2008)
- A 21. A.A. Zakhidov, J.K. Lee, H.H. Fong, J.A. DeFranco, M. Chatzichristidi, P. Taylor, C.K. Ober and G.G. Malliaras, “*Hydrofluoroethers as orthogonal solvents for the chemical processing of organic electronic materials*”, **Adv. Mater.** **20** 3481 (2008)
- A 22. J.K. Lee, M. Chatzichristidi, A. Zakhidov, J.A. DeFranco, P.G. Taylor, H.H. Fong, G.G. Malliaras, C.K. Ober, “*Acid-sensitive semiperfluoroalkyl resorcinarene: An imaging material for organic electronics*”, **J. Am. Chem. Soc.** **130** 11564 (2008)
- A 23. E. Valamontes, M. Chatzichristidi, N. Tsikrikas, D. Goustouridis, I. Raptis, J.A. van Kan, F. Watt “*Realization and simulation of high aspect ratio micro/nano structures by proton beam writing*” **Jpn. J. Appl. Phys.** **47**(11) 8600 (2008)
- A 24. P. Theodoni, V.Em. Vamvakas, Th. Speliotis, M. Chatzichristidi, P. Bayiati, I. Raptis, N. Papanikolaou, “*Efficient infrared emission from patterned thin metal films on a Si photonic crystal*”, **Phys. Status Solidi A** **205** (11) 2581 (2008)
- A 25. P.G. Taylor, J.-K. Lee, A.A. Zakhidov, M. Chatzichristidi, H.H. Fong, J.A. DeFranco, G.G.

- Malliaras, and C.K. Ober, “*Orthogonal Patterning of PEDOT:PSS for Organic Electronics using Hydrofluoroether Solvents*”, **Adv. Mater.** **21 (22) 2314 (2009)**
- A 26. J.K. Lee, M. Chatzichristidi, A.A. Zakhidov, H.S. Hwang, E.L. Schwartz, J. Sha, P.G. Taylor, H.H. Fong, J.A. DeFranco, E. Murotani, W.W.H. Wong, G.G. Malliaras, and C.K. Ober, “*Acid-Diffusion Behaviour in Organic Thin Films and its Effect on Patterning*”, **J. Mater. Chem.** **19 (19) 2986 (2009)**
- A 27. P. Pavli, P.S. Petrou, D. Niakoula, A. M Douvas, M. Chatzichristidi, S. E Kakabakos, D. Dimotikali, P. Argitis, “*Chemical binding of biomolecules to micropatterned epoxy modified surfaces for biosensing applications*”, **Microelectron. Eng.** **86 (4-6) 1473 (2009)**
- A 28. C. Christides, Th. Speliotis, M. Chatzichristidi, I. Raptis, “*Large magnetoresistance in [Co(1nm)/Bi(2.5nm)]10 line structures*”, **Microelectron. Eng.** **86 (4-6) 1050 (2009)**
- A 29. Th. Speliotis, P. Athanasopoulos, M. Chatzichristidi, D. Niarchos, “*Tailoring Exchange Bias in Magnetic Nanostructures*”, **Microelectron. Eng.** **86 (4-6) 1063 (2009)**
- A 30. J.K. Lee, P.G. Taylor, A.A. Zakhidov, H.H. Fong, H.S. Hwang, M. Chatzichristidi, G.G. Malliaras, and C.K. Ober, “*Orthogonal Processing: A novel photolithographic patterning method for Organic Electronics*”, **J. Photopolym. Sci. Technol.** **22, 565 (2009)**
- A 31. E. Murotani, J.K. Lee, M. Chatzichristidi, A.A. Zakhidov, P.G. Taylor, E.L. Schwartz, G.G. Malliara, and C.K. Ober, “*Cross-linkable molecular glasses: low dielectric constant materials patternable in hydrofluoroethers*”, **Appl. Mater. Interf.** **1, 10, 2363 (2009)**
- A 32. D. Goustouridis, I. Raptis, E. Valamontes, M. Chatzichristidi, “*Integrated tool for the spreading, thermal treatment and in-situ process monitoring of thick photoresist films*”, **Microelectron. Eng.** **87, 1115 (2010)**
- A 33. M. Mir, S.K. Dondapati, M.V. Duarte, M. Chatzichristidi, K. Misiakos, P. Petrou, S.E. Kakabakos, P. Argitis, I. Katakis, “*Electrochemical biosensor microarray functionalized by means of biomolecule friendly photolithography*”, **Biosens. Bioelectron.** **25, 2115 (2010)**
- A 34. A.A. Zakhidov, J.-K. Lee, J.A. DeFranco, H.H. Fong, P.G. Taylor, M. Chatzichristidi, C.K. Ober and G.G. Malliaras, “*Orthogonal processing: A new strategy for organic electronics*”, **Chem. Sci.**, **2, 1178 (2011)**
- A 35. G. Shayan, N. Felix, Y. Cho, M. Chatzichristidi, M.L. Shuler, C.K. Ober, K.H. Lee, “*Synthesis and Characterization of High-Throughput Nanofabricated Poly(4-Hydroxy Styrene) Membranes for In Vitro Models of Barrier Tissue*”, **Tissue Engineering Part C: Methods**, **18(9), 667 (2012)**
- A 36. K.M. Midthun, P.G. Taylor, C. Newby, M. Chatzichristidi, P.S. Petrou, J.K. Lee, S.E. Kakabakos, B.A. Baird, C.K. Ober, “*Orthogonal patterning of multiple biomolecules using an organic fluorinated resist and imprint lithography*”, **Biomacromolecules**, **14 (4), 993 (2013)**
- A 37. M.I. Georgaki, A. Botsialas, P. Argitis, N. Papanikolaou, P. Oikonomou, I. Raptis, J. Rysz, A. Budkowski, M. Chatzichristidi, “*1-D polymeric photonic crystals as spectroscopic zero-power humidity sensors*”, **Microelectron. Eng.** **115, 55 (2014)**
- A 38. D. Chavelas, P. Oikonomou, A. Botsialas, P. Argitis, N. Papanikolaou, D. Goustouridis, K.

Beltsios, E. Lidorikis, I. Raptis, M. Chatzichristidi, “*Lithographically tuned one dimensional polymeric photonic crystal arrays*”, **Optics & Laser Technology** **68**, 105 (2015)

PUBLICATIONS IN CONFERENCE PROCEEDINGS

- B 1. M. Chatzichristidi, P.S. Petrou, A. Douvas, C.D. Diakoumakos, I. Raptis, K. Misiakos, S.E. Kakabakos, P. Argitis, “*Photolithographic process, based on high contrast acrylate photoresist, for multi – protein patterning*”, **Proceedings of MRS Fall Meeting**, **950**, 205, (2006)
- B 2. M. Chatzichristidi, E. Valamontes, I. Raptis, J.A. Van Kan, F. Watt, “*Realization and simulation of high aspect ratio micro/nano structures by proton beam writing*”, **Digest of Papers - Microprocesses and Nanotechnology 2007**, **20th International Microprocesses and Nanotechnology Conference**, MNC, Article no 4456283 420 (2007)
- B 3. C.K. Ober, J.K. Lee, A.A. Zakhidov, H.H. Fong, P.G. Taylor, J.A. DeFranco, H.S. Hwang, M. Chatzichristidi, A.B. Holmes, G.G. Malliaras, “*Orthogonal processing for organic electronics*”, **Polymer Preprints (American Chemical Society, Division of Polymer Chemistry)** **50(1)** (2009)
- B 4. P.G Taylor, J.K. Lee, A.A. Zakhidov, M. Chatzichristidi, H.H. Fong, J. DeFranco, G.G. Malliaras, C.K. Ober, “*Synthesis and application of a nonchemically amplified photoresist for organic electronics*”, **PMSE Preprints** **100** 521 (2009)
- B 5. E. Murotani, J.K. Lee, M. Chatzichristidi, A.A. Zakhidov, P.G. Taylor, C.K. Ober, “*Low-k materials patternable in environmentally friendly solvents*”, **PMSE Preprints**, **100** 472 (2009)
- B 6. P.G. Taylor, J.K. Lee, A.A. Zakhidov, H.S. Hwang, J.A. DeFranco, H.H. Fong, M. Chatzichristidi, E. Murotani, G.G. Malliaras, and C.K. Ober, “*Orthogonal lithography for organic electronics*”, **Proc. SPIE**, Vol. **7639**, 76390Z (2010)
- B 7. M.-I. Georgaki, P. Oikonomou, A. Botsialas, N. Papanikolaou, I. Raptis, P. Argitis, M. Chatzichristidi, “*Powerless and reversible color humidity sensor*”, **Procedia Engineering** Vol. **25**, 1177 (2011)
- B 8. M.-I. Georgaki, P. Oikonomou, A. Botsialas, N. Papanikolaou, P. Argitis, J. Rysz, A. Budkowski, I. Raptis, M. Chatzichristidi, “*1-D polymeric photonic crystal humido-chromic sensor*”, **Proceedings of IEEE Sensors**, Art. no 612710, **2034** (2011)

CHAPTERS IN BOOKS

- C 1. N. Hadjichristidis, M. Pitsikalis, H. Iatrou, P. Driva, M. Chatzichristidi, G. Sakellariou, and D. Lohse, *Graft Copolymers*, **Encyclopedia Of Polymer Science and Technology**, **John Wiley & Sons, Inc.** (2010)
- C 2. N. Hadjichristidis, M. Pitsikalis, H. Iatrou, P. Driva, G. Sakellariou, M. Chatzichristidi, “*Polymers with Star-Related Structures: Synthesis, Properties and Applications*”, **Polymer Science: A Comprehensive Reference**, Volume 6, Elsevier (2011)

INVITED PRESENTATIONS

- D 1. M. Chatzichristidi, I. Raptis, J.A.van Kan, F. Watt, “*High aspect ratio micro/nano machining with proton beam writing on aqueous developable – easily stripped negative chemically amplified resists*”, **Micro & Nano Engineering Conference 2007 (Copenhagen, Denmark, 23-26/09/2007)**
- D 2. I. Raptis, M. Chatzichristidi, P. Argitis, “*High-aspect-ratio micro/nano machining using epoxy-based negative chemically amplified resists*”, **International Conference on Materials for Advanced Technologies 2011 (Suntec, Singapore, 26/6-1/7/2011)**
- D 3. M. Chatzichristidi, “*Lithography for Microsystems Fabrication*”, **Physical Science and Engineering Division, King Abdullah University of Science and Technology (KAUST), 28 November 2013**

CONFERENCES

- E1. M. Chatzichristidi, I. Raptis, C.D. Diakoumakos, N. Glezos, P. Argitis, M. Sanopoulou, “*Strippable aqueous base developable negative photoresist for high aspect ratio micromachining*”, **27th International Conference on Micro- and Nano- Engineering (Grenoble, France, 16-19/9/2001)**
- E2. M. Chatzichristidi, I. Raptis, C.D. Diakoumakos, N. Glezos, P. Argitis, “*Strippable negative thick photoresist for micromachining applications*”, **IUPAC International Symposium (IP 2001) on ionic polymerization (Crete, Greece, 10/2001)**
- E3. M. Chatzichristidi, I. Raptis, P. Argitis J. Everett, “*Partially hydrogenated poly(vinyl phenol) based photoresist for near UV, high aspect ratio micromachining*”, **46th International Conference on Electronic and Photon Beam Technology & Nanofabrication (Anaheim, California, USA, 28-31/5/2002)**
- E4. M. Chatzichristidi, A. Douvas, K. Misiakos, I. Raptis, C.D. Diakoumakos, P. Argitis, P.S. Petrou and S.E. Kakabakos, “*Sub-10 μ m protein microarray fabricated using new near UV photoresist and novel multi-step lithographic scheme*”, **2nd International Workshop on Multianalyte Biosensing Devices 2004 (Tarragona, Spain, 02/2004)**
- E5. A. Bush, I. Katakis, M. Chatzichristidi, K. Misiakos and P. Argitis, “*Fabrication of microscale protein arrays for low crosstalk electrochemical sensing*”, **2nd International Workshop on Multianalyte Biosensing Devices 2004 (Tarragona, Spain, 02/2004)**
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