

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

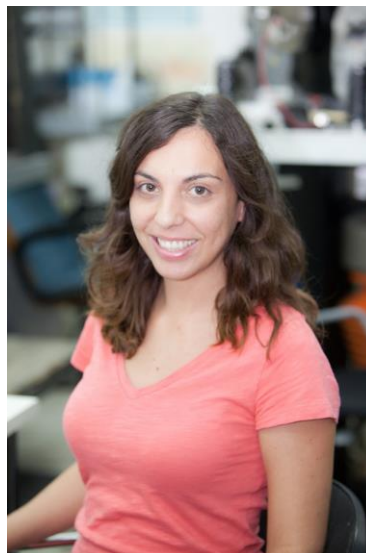
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EDUCATION

- Ph.D. in Applied Physics, Harvard University, USA (2006)
- M.Sc. in Applied Physics, Harvard University, USA (2002)
- B.Sc. in Electrical and Computer Engineering, National Technical University of Athens, Greece (2000)

PROFESSIONAL EXPERIENCE AND APPOINTMENTS

06/2014 – present: Associate Researcher, Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Greece

09/2010 – 05/2014: Assistant Researcher, Theoretical and Physical Chemistry Institute, National Hellenic Research Foundation, Greece

03/2009 – 08/2011: Adjunct Lecturer, School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Greece

05/2008 – 08/2010: EU Marie Curie Postdoctoral Researcher, School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Greece

10/2006 – 01/2008: Postdoctoral Associate, Chemistry Department, Massachusetts Institute of Technology, USA

02/2001 – 09/2006: Research and Teaching Assistant, School of Engineering and Applied Sciences, Harvard University, USA

MAIN RESEARCH INTERESTS

- Laser-matter interaction
- Nanophotonics
- Laser nanostructuring
- Pulsed laser deposition
- Chemical sensors
- Thin-film optoelectronic devices

EXTERNAL FUNDING

- EU Marie Curie Individual Fellowships (Supervisor), 2016 – 2018
- EU ERA.Net MED (Co-PI), 2016 – 2018
- EU COST Action MP 1302 (Substitute MC member), 2013 – 2017
- Greek Secretariat for Research and Technology KRIPIS-Polynano, 2013 – 2015
- EU ERA.Net Rus, Collaborative S&T Projects (Co-PI), 2013 – 2014
- EU COST Action MPNS 1205 (Substitute MC member), 2012 – 2016
- Latsis Foundation Grant for Scientific Studies (Coordinator), 2013
- EU COST Action MP0803 (Substitute MC member), 2012
- EU Marie Curie International Reintegration Grant (Researcher), 2008 – 2010
- Collaborations with Industry

TEACHING EXPERIENCE

- Seminars in Materials Science and Technology, Joint Master's Program, Materials Science and Technology, National Technical University of Athens, Greece, Spring 2012 – 2017.
- Laboratory Physics, School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Greece, Spring 2010 – 2011.
- Laboratory in Modern Physics, School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Greece, Autumn 2009.
- Laboratory Physics, School of Applied Mathematical and Physical Sciences, National Technical University of Athens, Greece, Spring 2009.

PROFESSIONAL AFFILIATIONS & ACTIVITIES

- Editorial Board Member, [Euro-Mediterranean Journal for Environmental Integration](#).
- Managing Committee Member for the European Congress and Exhibition on Advanced Materials and Processes [EUROMAT 2017](#).
- Board member of the [Hellenic Society for the Science and Technology of Condensed Matter](#).
- Organizing Committee Member for the 2nd Training Workshop on Advanced Material Characterization Techniques, November 2016, Athens, Greece.
- Member of the Optical Society (OSA) and Materials Research Society (MRS).
- Member of the European Technology Platform [Photonics 21](#).
- Member of the Technical Chamber of Greece.
- Reviewer for national and EU research proposals.
- Reviewer for scientific research journals in the fields of optics, materials, and applied physics.

AWARDS AND DISTINCTIONS

- Paper "Laser induced forward transfer of conducting polymers", M. Kandyla, S. Chatzandroulis, and I. Zergioti, highlighted by [MIT Technology Review](#) and Physics Today, 2012.
- Invitation to participate to the World Materials Summit for energy and environmental science. Organizers: MRS, EMRS, and CMRS, USA, 2011.
- Postdoctoral Fellowship, Hellenic Scholarships Foundation, Materials Science and Technology Division, 2010.
- Paper "[Turning aluminum liquid in picoseconds](#)", M. Kandyla, T. Shih, and E. Mazur, selected by Optics and Photonics News (OSA) as one of the 30 most exciting optics papers in 2007.
- Fellowship from Watson Endowment Fund and Gordon McKay Endowment for graduate studies at Harvard University, 2001 – 2002.
- Fellowship from Jennings Scholarship Fund, Wright Scholarship Fund, and Watson Endowment Fund for graduate studies at Harvard University, 2000 – 2001.
- Scholarship from the Hellenic Scholarships Foundation for highest undergraduate academic achievement, 1998.
- Scholarship from the Technical Chamber of Greece for highest undergraduate academic achievement, 1997 – 1998.

SELECTED PUBLICATIONS

1. "Plasmon enhanced optical tweezers with gold-coated black silicon", D.G. Kotsifaki, M. Kandyla, and P.G. Lagoudakis, [Scientific Reports 6, 26275 \(2016\)](#).
2. "Dual echelon femtosecond single-shot spectroscopy", T. Shin, J.W. Wolfson, S.W. Teitelbaum, M. Kandyla, and K.A. Nelson, [Review of Scientific Instruments 85, 083115 \(2014\)](#).
3. "Scalable fabrication of nanostructured p-Si/n-ZnO heterojunctions by femtosecond-laser processing", D.G. Georgiadou, M. Ulmeanu, M. Kompitsas, P. Argitis, and M. Kandyla, [Materials Research Express 1, 045902 \(2014\)](#).
4. "Optimized hydrogen sensing properties of nanocomposite NiO:Au thin films grown by dual Pulsed Laser Deposition", I. Fasaki, M. Kandyla, M.G. Tsoutsouva, and M. Kompitsas, [Sensors and Actuators B: Chemical 176, 103 \(2013\)](#).
5. "High-density regular arrays of nanometer-scale rods formed on silicon surfaces via femtosecond laser irradiation in water", M. Shen, J.E. Carey, C.H. Crouch, M. Kandyla, H.A. Stone, and E. Mazur, [Nano Letters 8, 2087 \(2008\)](#).
6. "Femtosecond dynamics of the laser-induced solid-to-liquid phase transition in aluminum", M. Kandyla, T. Shih, and E. Mazur, [Physical Review B 75, 214107 \(2007\)](#).

MORE DETAILS

This is an external link, which is not part of the NHRF website.

www.mkandyla.gr