Curriculum Vitae
Dr. Mihalis Fakis
September 2022

Personal

Name: Mihalis Fakis
Date of Birth: 22 January 1976
Place of Birth: Athens, Greece
Father of two children
Work Address: Department of Physics, University of Patras, 26504, Patras, Greece
Tel: 0030 2610996794, 2610997488
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Education

- B.Sc. in Physics, Dept. of Physics, Univ. of Patras, Greece (1997)
- M.Sc. in Physics with emphasis in Lasers, Dept. of Physics, Univ. of Patras, Greece (1999)
- Ph.D. Dept. of Physics, Univ. of Patras, Greece (2004)
  Thesis Title: "Study of laser action and excited state dynamics of novel conjugated polymers" (scholarship from the State Scholarships Foundation, I.K.Y.)

Foreign Languages

- English
- French

Employment (research and teaching posts)

- Associate Professor in Department of Physics, University of Patras, Greece (since September 2020)
- Assistant Professor in Department of Physics, University of Patras, Greece (since December 2014)
- Lecturer in Department of Physics, University of Patras, Greece (January 2011-December 2014)
- 2005-2010: Post-doc researcher, Laser Laboratory, Dept of Physics University of Patras, Greece
- 2006-2010: Teaching Staff, Technical Institute of Patras (courses: General Physics, Optical Physics)
- July 2006-September 2006: Member of Technical Staff, Raycap Company, Maroussi Greece
- 2000-2004: PhD student
- 1997-1999: MSc student

Scientific visits

- June 2013
  Department of Physics Chemistry, University of Geneva, Switzerland, Group of Eric Vauthey (One month work in ultrafast spectroscopy).
- 10-12 September 2013
  Picoquant Company, Berlin, Germany (training in Time Correlated Single Photon Counting Systems).

- June 2016
  Department of Physics Chemistry, University of Geneva, Switzerland, Group of Eric Vauthey (One month work in ultrafast spectroscopy).
- 24/11/2019-30/11/2019
  Department of Physics, University of Konstanz, Germany, Group of Lucas Schmidt Mende (ultrafast spectroscopy in perovskites).
- 12/6/2022-25/6/2022
  Department of Physics, Polytechnico di Milano, Italy, Group of Giulio Cerullo (ultrafast spectroscopy in quadrupolar and octupolar chromophores).

Funding-Scholarships

- Scholarship from the Greek State Scholarships Foundation for M.Sc. and Ph.D. studies (1998-2002)
- Scholarship from the Greek State Scholarships Foundation for post-doctoral research (2005-2006)
- Project “Pythagoras I”. Project title: “Study of excited state dynamics of photonic polymers through time resolved femtosecond spectroscopy” Greek Ministry of Education (2004-2005)
- Project “Heraklitos”. Project title: “Photophysics of nonlinear optical organic materials and applications” Greek Ministry of Education (2002-2004)
- Project “Regional Operational Program of Western Greece”. Project title: “Study of interrogation systems of optical fiber sensors with Bragg Gratings for monitoring of civil structures” GSRT (2006-2008)
- International short visits program, Swiss National Science Foundation. (June 2013)
- Project "ARISTEIA II". Project Title: "Graphene physics in the time domain and application to 3d optical memories" GSRT (2014-2015)
- Project "ARISTEIA II". Project Title: " Implementing Advanced Interfacial Engineering Strategies for Highly Efficient Hybrid Solar Cells" GSRT (2014-2015)
- Project "KARATHEODORIS 2013". Project Title: "Ultrafast spectroscopy as a tool for investigating charge transfer rates in dye sensitized and organic solar cells" Scientific Coordinator, University of Patras (2014-2017)
- "IKYDA 2018", Project Title: "Perovskite efficient solar cells using porphyrin layers for enhancing electron transport and light harvesting", (Member of the research team).

Research Interests

- Ultrafast Lasers, Time Resolved Spectroscopy, Optical properties and ultrafast phenomena: (charge transfer dynamics, energy transfer dynamics, solvation dynamics, vibronic relaxation, rotations etc.)
- Multiphoton Absorption, Nonlinear Optics:
  (Two-photon excited fluorescence, Two-photon microfabrication and data storage, z-scan)
- Development of polymer and dye lasers based on optical pumping
- Optoelectronics
  (Fiber lasers, Fiber Bragg Gratings, Optical Fiber Sensors)

Teaching in the Dept. of Physics

Undergraduate Program

- Thermodynamics – Waves – Optics, 2014-today, second semester
- Laboratory Physics II, 2011- 2018, second semester
- Laboratory Physics III, 2012- today, third semester
- Principles of Lasers, 2012-2015, seventh semester
- Laboratory exercises in Lasers, 2012-today, seventh semester
- Applied Optics, 2016- today, seventh semester
- Applications of Lasers, 2013-today, eight semester
- Laboratory Physics for Biologists, 2012-2014, first semester

Post-graduate Program

- Characterization of materials, Laboratory, 2014-today, 1st or 3rd semester.
- Special Topics in Optics, 2017-today, 1st or 3rd semester.

Supervision

- Supervisor in twenty two undergraduate theses
- Supervisor in eight M.Sc. theses
- Co-supervisor in twelve M.Sc. theses
- Supervisor in three Ph.D. theses and member in the advisory committees for nine Ph.D. theses

Administrative work

- Member of the surveillance committee of the program "Practical training" of the Department of Physics (2011-2018).
- President of the surveillance committee of the program "Practical training" of the Department of Physics (2018-today)
- Member of the internal evaluation committee of the Department of Physics (2012-today).
- Member of the interdepartmental committee of the postgraduate course "Medical Physics" (2011-2016).
- Member of the Undergraduate Program committee (2016-today)
- Financial manager for the Division of Electronics and Computers (2016).

Awards - Reviewer

- Recipient of Scholarship from the Greek State Scholarships Foundation for M.Sc. and Ph.D. studies.
- Recipient of Scholarship from the Greek State Scholarships Foundation for post-doctoral Research.
- Reviewer in the following scientific journals: Synthetic Metals (1), Spectroscopy Letters (1), Dyes and Pigments (9), Journal of Physical Chemistry A, B, C (11), The open spectroscopy Journal (1), Journal of Luminescence (3) , Materials Science and Engineering B (2), Thin Solid Films (1), Journal of Nanophotonics (1), Journal of Photochemistry and Photobiology A:Chemistry (3), Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (1), Physical Chemistry Chemical Physics (9), Inorganic Chemistry (1), Applied Physics B (1), Journal of Molecular Structure (1), Chemical Physics Letters (1), Journal of Spectroscopy (1), Journal of Optoelectronics and Advanced Materials (1), Langmuir (1), BioMed Research International (1), Journal of Physical Chemistry Letters (3), Heliyon (2), RSC Advances (1), Molecules (2),

Polymer (1), Chemistry Select (1), Optics Express (1), Applied Sciences (1), ACS Applied Energy Materials (1), Optics and Laser Technology (1), Sensors and Actuators A (1), J. Mater. Chem. A (1).

- External reviewer for the Portuguese Foundation for Science and Technology (FCT) of two research programs (2012).
- External reviewer for the Technical Educational Institute (T.E.I.) of Athens.

Invited Talks

- Invited talk in the Institute of Chemical Engineering Sciences, Foundation of Research & Technology, Hellas, July 2011 (Lecture title: "Spectroscopy and applications using femtosecond laser pulses")
- Invited talk in the online workshop "Aromatic HeteRoCycles: A Wonderful Pool of Organic Materials AHeRoC" 16-17 Μαρτίου 2022, Lecture title: "Photodynamics and 2-Photon Absorption Properties of Push-Pull Molecules with Heterocycle Substituents by Means of fs Laser Spectroscopy" (https://bures.upce.cz/aheroc1.html).

Collaborations

Previous Collaborations:

- Dept. of Chemistry, University of Patras (J. Mikroyiannidis, Prof.)
- National Hellenic Research Foundation (G. Mousdis, Senior Researcher)
- Dept. of Chemistry, University of Patras (T. Christopoulos, Professor)
- Institute of Chemistry, Academia Sinica, Taipei, Taiwan (Jiann T'suen Lin, Professor)

Current collaborations:

- Department of Physics, Polytechnico di Milano, Italy (G. Cerullo, Professor)
- Department of Physical Chemistry, University of Geneva, Switzerland (E. Vauthey, Professor)
- Department of Physics, Polytechnico di Milano, Italy (G. Cerullo, Professor)
- Institut für Chemie, Technische Universität Berlin, Berlin, Germany / Faculty of Natural Sciences, Comenius University Bratislava, Slovakia (Dr. Peter Hrobarik)
- Institute of Organic Chemistry and Technology, Faculty of Chemical Technology, University of Pardubice, Czech Republic (Assoc. Prof. Filip Bures)
- Izmir Katip Celebi University, Department of Material Science and Engineering, Izmir, Turkey (Dr. S. Demic)
- Institut des Sciences Chimiques de Rennes UMR 6226 CNRS - Université Rennes, France (Sylvain Achelle, Associate professor).
- Dept. of Mater. Science, University of Patras (K. Papagelis, Ass. Professor)
- Dept. of Electrical Engineering, Technical Institute of Patras (E. Stathatos, Professor)
- NCSR Demokritos (A. Nassiopoulou, Director of Research)
- NCSR Demokritos, Athens Greece (Dr. G. Pistolis)
- NCSR Demokritos, Athens Greece (Dr. M. Vasilopoulou)

Writing Work

Member of the Team for Scientific Translation in Greek of the 10th edition of the book "PHYSICS" by D. Halliday, R. Resnick, J. Walker, Editions: Gutenberg. The translated 10th edition is expected to be ready for the academic year 2020-2021.

Cooperation with scientific magazines

Editorial Board Member of MDPI's Optics Magazine (Open Access), Basel, Switzerland (https://www.mdpi.com/journal/optics)

Guest Editor of the Special Issue: Frontiers in Ultrafast Spectroscopy Techniques Applied to Novel Materials (https://www.mdpi.com/journal/optics/special_issues/ultrafast_spectroscopy_materials)

Publications

Summary:

Journals: 83
Chapters in Books: 2
International Conferences: 34
National Conferences: 20
Citations (excluding self citations): ~ 1600
h-index: 24

A. Journals

A1. "Novel class of pyrylium dyes with efficiency in lasing and two photon absorption fluorescence" M. Fakis, J. Polyzos, G. Tsigaridas, J. Parthenios, A. Fragos, V. Giannetas, P. Persephonis and J. Mikroyannidis, *Chemical Physics Letters*, 323 (2000), 111-116

A2. "Examination of spatial distribution of dyes and polymers in thin films through two photon microscopy" I Polyzos, G. Tsigaridas, M. Fakis, J. Parthenios, A. Fragos, V. Giannetas, P.Persephonis and J. Mikroyannidis, *Chemical Monthly*, 132 (2001), 169-175, Also in the book "Molecular Materials and Functional Polymers", Springer-Verlag, Wien, (2001) p. 169

A3. "Intensity dependent nonlinear absorption of pyrylium chromophores", M. Fakis, G. Tsigaridas, I. Polyzos, V. Giannetas, P. Persephonis, I. Spiliopoulos and J. Mikroyannidis, *Chemical Physics Letters*, 342 (2001), 155-161

A4. "Laser action of two novel conjugated polymers in liquid and solid matrix. The effect of aggregates in the spontaneous and stimulated emission", M. Fakis, I. Polyzos, G. Tsigaridas, V. Giannetas, P. Persephonis, I. Spiliopoulos and J. Mikroyannidis, *Physical Review B*, 65 (2002), 195-203

A5. "Two-photon absorption properties of novel organic materials for three - dimensional optical memories", I. Polyzos, G. Tsigaridas, M. Fakis, V. Giannetas, P. Persephonis and J. Mikroyannidis, *Chemical Physics Letters* ,369 (2003), 264-268

A6. "Z-scan technique through beam radius measurements", G. Tsigaridas, M. Fakis, I. Polyzos, V. Giannetas and P. Persephonis, *Applied Physics B: Laser and Optics* 76 (2003), 83-86

A7. "Z-scan analysis for near-Gaussian beams through Hermite Gaussian decomposition", G.Tsigaridas, M. Fakis, I. Polyzos, P. Persephonis and V. Giannetas, *Journal of the Optical Society of America B*, 20 (2003), 670-676

A8. "Conjugated polymer in isolated and aggregated chain environments studied by amplified spontaneous emission", M. Fakis, G. Tsigaridas, I. Polyzos, V. Giannetas and P. Persephonis, Physical Review B, 68 (2003), 035203

A9. "Z-scan technique for elliptic Gaussian beams", G. Tsigaridas, M. Fakis, I. Polyzos, P. Persephonis and V. Giannetas, *Applied Physics B: Lasers and Optics*, 77 (2003), 71-75

A10. "Z-scan analysis for high-order nonlinearities through Gaussian decomposition",
G. Tsigaridas, M. Fakis, I. Polyzos, P. Persephonis and V. Giannetas, *Optics Communications*, 225 (2003), 253-268

A11. "Dual Amplified Spontaneous Emission and laser action from a model oligo(phenylene vinylene). Comparison with the corresponding polymer", M. Fakis, I. Polyzos, G. Tsigaridas, V. Giannetas, P. Persephonis, I. Spiliopoulos and J. Mikroyannidis, *Optical Materials*, 27 (2004), 503-507

A12. "Luminescent poly(phenylene vinylene) derivatives with m-terphenyl or 2,6-diphenylpyridine kinked segments along the main chain: Synthesis, characterization and stimulated emission", P. Karastatiris, J. Microyannidis, I. Spiliopoulos, M. Fakis and P. Persephonis, *Journal of Polymer Science Part A: Polymer Chemistry* 42 (2004), 2214-2224

A13. "Excited State dynamics of a partially conjugated polymer studied by femtosecond time resolved upconversion spectroscopy", M. Fakis, I. Polyzos, G. Tsigaridas, V. Giannetas and P. Persephonis, *Chemical Physics Letters* 394 (2004), 372-376

A14. "Evolution of near-soliton initial profiles in nonlinear wave equations through their Backlund transforms", G. Tsigaridas, A. Fragos, I. Polyzos, M. Fakis, A. Ioannou, V. Giannetas, and P. Persephonis, *Chaos, Solitons and Fractals* 23, (2005), 1841-1854

A15. "Study of the isotropic and anisotropic fluorescence of two oligothiophenes by femtosecond time-resolved spectroscopy", D. Anestopulos, M. Fakis, G. Tsigaridas, I. Polyzos, P. Persephonis and V. Giannetas, *Journal of Physical Chemistry B*. 109, (2005), 9476-9481

A16. "Three Photon Induced Photobleaching in a 3-D Memory Material", I. Polyzos, G. Tsigaridas, M. Fakis, V. Giannetas and P. Persephonis, *Optics Letters* 30, (2005), 2654-2656
It has been selected for the November 2005 issue of "Virtual Journal of Ultrafast Science". The Virtual Journal, which is published by the American Physical Society and the American Institute of Physics in cooperation with numerous other societies and publishers, is an edited compilation of links to articles from participating publishers, covering a focused area of frontier research. Access the Virtual Journal at http://www.vjultrafast.org.

A17. "Substituent effect on the Photobleaching of Pyrylium salts under ultra-short pulsed illumination", I. Polyzos, G. Tsigaridas, M. Fakis, V. Giannetas, P. Persephonis and J. Mikroyannidis, *Journal of Physical Chemistry B* 110, (2006), 2593-2597

A18. "Excitation Energy transfer in a water-soluble conjugated *co*-polymer studied through time resolved anisotropy and fluorescence dynamics", D. Anestopoulos, M. Fakis, V. Giannetas, P. Persephonis and J. Mikroyannidis, *Chemical Physics Letters* 421, (2006), 205–209

A19. "Femtosecond time resolved fluorescence dynamics of a cationic water-soluble poly(fluorenevinylene-*co*-phenylenevinylene)", M. Fakis, D. Anestopoulos, V. Giannetas, P. Persephonis and J. Mikroyannidis, *Journal of Physical Chemistry B* 110, (2006) 12926-12931

A20. "Influence of aggregates and solvent aromaticity on the emission of conjugated polymers", M. Fakis, D. Anestopoulos, V. Giannetas, P. Persephonis, *Journal of Physical Chemistry B* 110, (2006), 24897-24902

A21. "Fluorescence and anisotropy dynamics of a –CHO substituted terhiophene", D. Anestopoulos, M. Fakis, G. Mousdis, V. Giannetas, P. Persephonis, *Synthetic Metals* 157, (2007), 30–34

A22. "A two-photon absorption study of fluorene and carbazole derivatives. The role of the central core and the solvent polarity" I. Fitilis, M. Fakis, I. Polyzos, V. Giannetas, P. Persephonis, P. Vellis and J. Mikroyannidis, *Chemical Physics Letters* 447, (2007), 300-304

A23. "Strong two-photon absorption and photophysical properties of symmetrical chromophores with electron accepting edge substituents" I. Fitilis, M. Fakis, I. Polyzos, V. Giannetas, P. Persephonis, J. Mikroyannidis, *Journal of Physical Chemistry A* 112, (2008), 4742-4748

A24. "Photophysics and two-photon absorption of a series of quadrupolar and tribranched molecules. The role of the edge substituent", M. Fakis, I. Fitilis, S. Stefanatos, P. Vellis, J. Mikroyannidis, V. Giannetas, P. Persephonis *Dyes and Pigments 81 (2009)63*-68

A25. "Photoluminescence in the blue spectral region from fluorene molecules embedded in porous anodic alumina thin films on silicon", M. Fakis, V. Gianneta, P. Persephonis, V. Giannetas, A.G. Nassiopoulou *Optical Materials* 31 (2009) 1184-1188

A26. "Photophysical and electrochemical characterization of new poly-arylenevinylene co-polymers containing quinoline or bis-quinoline segments" J. Mikroyannidis, M. Fakis, I. Spiliopoulos, *Journal of Polymer Science Part A: Polymer Chemistry* 47 (2009) 3370-3379

A27. "Photoluminescence properties of fluorenes-porous silicon composites", M. Fakis, P. Persephonis, V. Giannetas F. Zacharatos, V. Gianneta and A. G. Nassiopoulou, *Materials Science and Engineering B* 165 (2009) 252

A28. "Carbon Nanotube-Fluorenevinylene Hybrids: Synthesis and Photophysical Properties" D. Tasis, M. Fakis, J. Mikroyannidis, K. Papagelis, *Chemical Physics Letters* 483 (2009) 241

A29. "Ultrafast fluorescence dynamics of Sybr Green I/DNA complexes" I. A. Trantakis, M. Fakis, S. S. Tragoulias, T. K. Christopoulos, P. Persephonis, V. Giannetas, P. Ioannou, *Chemical Physics Letters*, 485 (2010) 187-190

A30. "Unltrafast solvation and anisotropy dynamics in a new tribranched molecule based on triphenylamine core" M. Fakis, V. Giannetas, and J. Mikroyannidis, *Dyes and Pigments* 87 (2010) 44

A31. "Benzothiazole-Based Fluorophores of Donor-pi-Acceptor-pi-Donor Type Displaying High Two-Photon Absorption" V. Hrobáriková, P. Hrobárik, P. Gajdoš, I. Fitilis, M. Fakis, P. Persephonis and P. Zahradník, *Journal of Organic Chemistry* 75 (2010) 3053

A32. "Two-photon polymerization of a diacrylate using fluorene photoinitiators-sensitizers" I. Fitilis, M. Fakis, J. Polyzos, V. Giannetas, P. Persephonis *J. Photochem. Photobiol. A: Chem*. 215 (2010) 25–30

A33. "Femtosecond decay and electron transfer dynamics of the organic sensitizer D149 and photovoltaic performance in quasi-solid state Dye-Sensitized Solar Cells" M. Fakis, E. Stathatos, G. Tsigaridas, V. Giannetas, P. Persephonis *J. Phys. Chem. C* 115 (2011) 13429-13437

A34. "Benzothiazoles with Tunable Electron-Withdrawing Strength and Reverse Polarity:A Route to Triphenylamine-Based Chromophores with Enhanced Two-Photon Absorption" P. Hrobarik, V. Hrobarikova, I. Sigmundova, P. Zahradnik,

M. Fakis, I. Polyzos, P. Persephonis, , *Journal of Organic Chemistry,* 76 (2011) 8726–8736

A35. "Interfacial electron transfer dynamics and photovoltaic performance of TiO2 and ZnO solar cells sensitized with Coumarin 343" M. Giannouli, M. Fakis, *J. Photochem. and Photobiol. A: Chem*. (2011), 226 (2011) 42-50

A36. "A time resolved fluorescence and quantum chemical study of the solar cell sensitizer D149" Mihalis Fakis, Peter Hrobárik, Elias Stathatos, Vassilis Giannetas, Peter Persephonis *Dyes and Pigments* 96, (2013) 304-312

A37. "Electron injection in TiO2 films and quasi-solid state solar cells sensitized with a dipolar fluorene organic dye" M. Fakis, M. Dori, E. Stathatos, Hsien-Hsin Chou, Yung-Sheng Yen, Jiann T'suen Lin,V. Giannetas, P. Persephonis *J. Photochem. Photobiol. A:Chem*. 251 (2013) 18-24

A38. "Electron injection studies on TiO2 nanocrystalline films sensitized with fluorene dyes and photovoltaic characterization. The effect of co-adsorption of a bile acid derivative. " M. Dori, K. Seintis, E. Stathatos, G. Tsigaridas, T.-Y. Lin, J. T. Lin, M. Fakis, V. Giannetas, P. Persephonis *Chemical Physics Letters* 563 (2013) 63–69

A39. "Solution processed hydrogen molybdenum bronzes as highly conductive anode interlayers in efficient organic photovoltaics" A. Soultati, A. M. Douvas, D. G. Georgiadou, L. C. Palilis, J. M. Feckl, S. Gardelis, M. Fakis, S. Kennou, P. Falaras, T. Stergiopoulos, N. A. Stathopoulos, D. Davazoglou, P. Argitis and M. Vasilopoulou *Advanced Energy Materials* 4 (2014) 1300896

A40. "Porphyrin oriented self-assembled nanostructures for efficient exciton dissociation in highly performing organic photovoltaics" M. Vasilopoulou, D. G. Georgiadou, A. M. Douvas, A. Soultati, V. Constantoudis, D. Davazoglou, S. Gardelis, L. C. Palilis, M. Fakis, S. Kennou, T. Lazarides, A. G. Coutsolelos and P. Argitis *J. Mater. Chem. A* 2 (2014) 182–192

A41. "Synthesis of two tri-arylamine derivatives as sensitizers in dye-sensitized solar cells: Electron injection studies and photovoltaic characterization" M. Can, Z. Yigit, D. Karageorgopoulos, K. Seintis,, V. Giannetas, S. Demic, M. Fakis and E. Stathatos *Synthetic Metals* 188 (2014) 77– 85

A42. "Highly efficient and unidirectional energy transfer within a tightly self-assembled host-guest multichromophoric array" N. Karakostas, I. M. Mavridis, K. Seintis, M. Fakis, E. N. Koini, I. D. Petsalakis and G. Pistolis *Chem. Commun*. 50 (2014) 1362-1365

A43. "Theoretical and experimental study of refractive index sensors based on etched fiber Bragg gratings" G. Tsigaridas, D. Polyzos, A. Ioannou, M. Fakis and P. Persephonis *Sensors and Actuators A. Physical*. 209 (2014) 9-15

A44. "Atomic Layer Deposited Aluminum and Zirconium Oxides for Surface Passivation of TiO2 in High-Efficiency Organic Photovoltaics" M. Vasilopoulou, D. G. Georgiadou, A. Soultati, N. Boukos, S. Gardelis, L. C. Palilis, M. Fakis, G. Skoulatakis, S. Kennou, M. Botzakaki, S. Georga, C. A. Krontiras, F. Auras, D. Fattakhova-Rohlfing, T. Bein, T. A. Papadopoulos, D. Davazoglou, P. Argitis *Advanced Energy Materials* (2014)1400214

A45. "Excited state and injection dynamics of tri-phenylamine sensitizers with benzothiazole electron accepting group. A transient absorption and time resolved fluorescene study" M. Fakis, P. Hrobarik, O. Yushchenko, I. Sigmulova, M. Koch, A. Rosspeintner, E. Stathatos and E. Vauthey *Journal of Physical Chemistry C. 118 (2014) 28509–28519*

A46. "Benzobisthiazoles as Building Blocks for Quadrupolar Fluorophores with Large Two-Photon Absorption Cross-Sections" P. Hrobarik, P. Kasak, V. Semak, V. Hrobarikova, E. Rakovsky, I. Polyzos, M. Fakis and P. Persephonis *Organic Letters 16 (2014) 6358–6361.*

A47. "Steady state and time resolved photoluminescence properties of CuInS2/ZnS quantum dots in solutions and in solid films" N. Droseros, K. Seintis, M. Fakis, S. Gardelis and A. Nassiopoulou *Journal of Luminescence 167 (2015) 333-338*

A48. "Energy Transfer within Self-Assembled Cyclic Multichromophoric Arrays Based on Orthogonally Arranged Donor - Acceptor Building Blocks" Nikolaos Karakostas, Elisabeth Martinou, Antonia Kaloudi Chantzea, Kostas Seintis, Herbert Oberacher, Florian Pitterl Florian, Mihalis Fakis, J. K. Kallitsis and George Pistolis *accepted for publication in Faraday Discussions 2015*

A49. "Modulation of (non)linear optical properties in tripodal molecules by variation of the peripheral cyano acceptor moieties and the π-spacer" D. Cvejn, E. Michail, I. Polyzos, N. Almonasy, O. Pytela, M. Klikar, T. Mikysek, V. Giannetas, M. Fakis and F. Bureš *J. Mater. Chem. C 3 (2015) 7345-7355*

A50. "The effect of additional electron donating group on the photophysics and photovoltaic performance of two new metal free D-<pi>-A sensitizers" An. Margalias, K. Seintis, M.Z. Yigit, M. Can, D. Sygkridou, V. Giannetas, M. Fakis, E. Stathatos *Dyes and Pigments 167 (2015) 333-338*

A51. "Surface Modification of ZnO Layers via Hydrogen Plasma Treatment for Efficient Inverted Polymer Solar Cells" V. Papamakarios, E. Polydorou, A. Soultati, N. Droseros, D. Tsikritzis, A. Douvas, L. Palilis, M. Fakis, S. Kennou, P. Argitis and M. Vasilopoulou *ACS Applied Materials and Interfaces 8 (2016) 1194–1205*

A52. "Water-Soluble Lacunary Polyoxometalates with Excellent Electron Mobilities and Hole Blocking Capabilities for High Efficiency Fluorescence and Phosphorescent Organic Light Emitting Diodes" M. Tountas, Y. Topal, M. Kus, M. Ersöz, M. Fakis and M. Vasilopoulou *Advanced Functional Materials 26 (2016) 2655–2665*

A53. "Solvent and branching effect on the two-photon absorption properties of push-pull triphenylamine derivatives" D. Cvejn, E. Michail, K. Seintis, M. Klikar, O. Pytela, T. Mikysek, N. Almonasy, M. Ludwig, V. Giannetas, M. Fakis and F. Bureš *RSC Advances 6 (2016) 12819-12828*

A54. "Formation of a A Highly–Ordered Rigid Multichromophoric 3D Supramolecular Network by Combining Ionic and Coordination – Driven Self - Assembly" A. Kaloudi-Chantzea, E. Martinou, K. Seintis, N. Karakostas, P. Giastas, F. Pitterl, H. Oberacher, M. Fakis and G. Pistolis *Chemical Communications 52 (2016) 3388-3391*

A55. "Energy transfer in aggregated $CuInS_2$/ZnS core-shell quantum dots deposited as solid films" S. Gardelis, M. Fakis, N. Droseros, D. Georgiadou, A. Travlos and A. Nassiopoulou *Journal of Physics D: Applied Physics 50 (2017) 035107*

A56. "The Dynamics of Intramolecular Energy Hopping in Multi-Bodipy Self – Assembled Metallocyclic Species: A Tool For Probing Subtle Structural Distortions in Solution " E. Martinou, K. Seintis, N. Karakostas, A. Bletsou, N. Thomaidis, M. Fakis and G. Pistolis, *Journal of Physical Chemistry C 121 (2017) 5341–5355*

A57. "Avoiding ambient air and light induced degradation in high-efficiency polymer solar cells by the use of hydrogen-doped zinc oxide as electron extraction material" E. Polydorou, I. Sakellis, A. Soultati, A. Kaltzoglou, T. A.

Papadopoulos, J. Briscoe, D. Tsikritzis, M. Fakis, L. C. Palilis, S. Kennou, P. Argitis, P. Falaras, D. Davazoglou and M. Vasilopoulou, *Nano Energy 34 (2017) 500–514*

A58. "Improved Stability of Polymer Solar Cells in Ambient Air via Atomic Layer Deposition of Ultrathin Dielectric Layers" E. Polydorou, M. A. Botzakaki, I. Sakellis, A. Soultati, A. Kaltzoglou, T. A. Papadopoulos, J. Briscoe, C. Drivas, K. Seintis, M. Fakis, L. C. Palilis, S. N. Georga, C. A. Krontiras, S. Kennou, P. Falaras, N. Boukos, D. Davazoglou, P. Argitis and M. Vasilopoulou *Advanced Materials Interfaces 4 (2017) 1700231 (1-12)*

A59. "Femtosecond to nanosecond studies of octupolar molecules and their quadrupolar and dipolar analogues" by K. Seintis, D. Agathangelou, D. Cvejn, N. Almonasy, F. Bureš, V. Giannetas and M. Fakis *Physical Chemistry Chemical Physics 19 (2017) 16485-16497*

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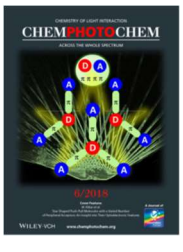

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