Mihalis Fakis

List of Publications by Year in descending order

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Version: 2024-02-01

81 papers	2,122 citations	218677 26 h-index	276875 41 g-index
82 all docs	82 docs citations	82 times ranked	3078 citing authors

#	Article	IF	Citations
1	Benzothiazoles with Tunable Electron-Withdrawing Strength and Reverse Polarity: A Route to Triphenylamine-Based Chromophores with Enhanced Two-Photon Absorption. Journal of Organic Chemistry, 2011, 76, 8726-8736.	3.2	138
2	Benzothiazole-Based Fluorophores of Donorâ^'Ï€-Acceptorâ^'Ï€-Donor Type Displaying High Two-Photon Absorption. Journal of Organic Chemistry, 2010, 75, 3053-3068.	3.2	135
3	Two-photon absorption properties of novel organic materials for three-dimensional optical memories. Chemical Physics Letters, 2003, 369, 264-268.	2.6	78
4	Z -scan technique through beam radius measurements. Applied Physics B: Lasers and Optics, 2003, 76, 83-86.	2.2	63
5	Porphyrin oriented self-assembled nanostructures for efficient exciton dissociation in high-performing organic photovoltaics. Journal of Materials Chemistry A, 2014, 2, 182-192.	10.3	60
6	Femtosecond Decay and Electron Transfer Dynamics of the Organic Sensitizer D149 and Photovoltaic Performance in Quasi-Solid-State Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2011, 115, 13429-13437.	3.1	56
7	Solutionâ€Processed Hydrogen Molybdenum Bronzes as Highly Conductive Anode Interlayers in Efficient Organic Photovoltaics. Advanced Energy Materials, 2014, 4, 1300896.	19.5	56
8	Intensity dependent nonlinear absorption of pyrylium chromophores. Chemical Physics Letters, 2001, 342, 155-161.	2.6	55
9	A two-photon absorption study of fluorene and carbazole derivatives. The role of the central core and the solvent polarity. Chemical Physics Letters, 2007, 447, 300-304.	2.6	53
10	Quadrupolar Benzobisthiazole-Cored Arylamines as Highly Efficient Two-Photon Absorbing Fluorophores. Organic Letters, 2014, 16, 6358-6361.	4.6	52
11	Theoretical and experimental study of refractive index sensors based on etched fiber Bragg gratings. Sensors and Actuators A: Physical, 2014, 209, 9-15.	4.1	52
12	Atomicâ€Layerâ€Deposited Aluminum and Zirconium Oxides for Surface Passivation of TiO₂ in Highâ€Efficiency Organic Photovoltaics. Advanced Energy Materials, 2014, 4, 1400214.	19.5	52
13	Lithium Doping of ZnO for High Efficiency and Stability Fullerene and Non-fullerene Organic Solar Cells. ACS Applied Energy Materials, 2019, 2, 1663-1675.	5.1	52
14	Modulation of (non)linear optical properties in tripodal molecules by variation of the peripheral cyano acceptor moieties and the Ï€-spacer. Journal of Materials Chemistry C, 2015, 3, 7345-7355.	5.5	47
15	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. Nano Energy, 2017, 34, 500-514.	16.0	45
16	Excited State and Injection Dynamics of Triphenylamine Sensitizers Containing a Benzothiazole Electron-Accepting Group on TiO₂ and Al₂O₃ Thin Films. Journal of Physical Chemistry C, 2014, 118, 28509-28519.	3.1	41
17	Z-scan analysis for high order nonlinearities through Gaussian decomposition. Optics Communications, 2003, 225, 253-268.	2.1	40
18	Influence of Aggregates and Solvent Aromaticity on the Emission of Conjugated Polymers. Journal of Physical Chemistry B, 2006, 110, 24897-24902.	2.6	38

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19	Solvent and branching effect on the two-photon absorption properties of pushâ€“pull triphenylamine derivatives. RSC Advances, 2016, 6, 12819-12828.	3.6	38
20	Novel class of pyrylium dyes with high efficiency in lasing and two-photon absorption fluorescence. Chemical Physics Letters, 2000, 323, 111-116.	2.6	36
21	Waterâ€Soluble Lacunary Polyoxometalates with Excellent Electron Mobilities and Hole Blocking Capabilities for High Efficiency Fluorescent and Phosphorescent Organic Light Emitting Diodes. Advanced Functional Materials, 2016, 26, 2655-2665.	14.9	35
22	Surface Modification of ZnO Layers via Hydrogen Plasma Treatment for Efficient Inverted Polymer Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 1194-1205.	8.0	35
23	Z-scan technique for elliptic Gaussian beams. Applied Physics B: Lasers and Optics, 2003, 77, 71-75.	2.2	33
24	Triazine-Substituted Zinc Porphyrin as an Electron Transport Interfacial Material for Efficiency Enhancement and Degradation Retardation in Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 3216-3229.	5.1	33
25	Highly efficient and unidirectional energy transfer within a tightly self-assembled hostâ€“guest multichromophoric array. Chemical Communications, 2014, 50, 1362-1365.	4.1	32
26	A time resolved fluorescence and quantum chemical study of the solar cell sensitizer D149. Dyes and Pigments, 2013, 96, 304-312.	3.7	27
27	Interfacial electron transfer dynamics and photovoltaic performance of TiO2 and ZnO solar cells sensitized with Coumarin 343. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 226, 42-50.	3.9	26
28	Three-photon induced photobleaching in a three-dimensional memory material. Optics Letters, 2005, 30, 2654.	3.3	25
29	A silanol-functionalized polyoxometalate with excellent electron transfer mediating behavior to ZnO and TiO₂ cathode interlayers for highly efficient and extremely stable polymer solar cells. Journal of Materials Chemistry C, 2018, 6, 1459-1469.	5.5	25
30	Luminescent poly(phenylene vinylene) derivatives withm-terphenyl or 2,6-diphenylpyridine kinked segments along the main chain: Synthesis, characterization, and stimulated emission. Journal of Polymer Science Part A, 2004, 42, 2214-2224.	2.3	23
31	Low Work Function Lacunary Polyoxometalates as Electron Transport Interlayers for Inverted Polymer Solar Cells of Improved Efficiency and Stability. ACS Applied Materials & Interfaces, 2017, 9, 22773-22787.	8.0	23
32	Energy transfer and charge separation dynamics in photoexcited pyreneâ€“bodipy molecular dyads. Physical Chemistry Chemical Physics, 2018, 20, 837-849.	2.8	22
33	Formation of a highly-ordered rigid multichromophoric 3D supramolecular network by combining ionic and coordination-driven self-assembly. Chemical Communications, 2016, 52, 3388-3391.	4.1	21
34	Strong Two Photon Absorption and Photophysical Properties of Symmetrical Chromophores with Electron Accepting Edge Substituents. Journal of Physical Chemistry A, 2008, 112, 4742-4748.	2.5	20
35	The photophysics and two-photon absorption of a series of quadrupolar and tribranched molecules: The role of the edge substituent. Dyes and Pigments, 2009, 81, 63-68.	3.7	20
36	Steady state and time resolved photoluminescence properties of CuInS2/ZnS quantum dots in solutions and in solid films. Journal of Luminescence, 2015, 167, 333-338.	3.1	20

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37	Insights into the passivation effect of atomic layer deposited hafnium oxide for efficiency and stability enhancement in organic solar cells. Journal of Materials Chemistry C, 2018, 6, 8051-8059.	5.5	20
38	Photophysics of 9,9â€Dimethylacridanâ€Substituted Phenylstyrylpyrimidines Exhibiting Longâ€Lived Intramolecular Chargeâ€Transfer Fluorescence and Aggregationâ€Induced Emission Characteristics. Chemistry - A European Journal, 2021, 27, 1145-1159.	3.3	20
39	Femtosecond to nanosecond studies of octupolar molecules and their quadrupolar and dipolar analogues. Physical Chemistry Chemical Physics, 2017, 19, 16485-16497.	2.8	20
40	Direct Iodination of Electron-Deficient Benzothiazoles: Rapid Access to Two-Photon Absorbing Fluorophores with Quadrupolar D-Ï€-A-Ï€-D Architecture and Tunable Heteroaromatic Core. Organic Letters, 2021, 23, 3460-3465.	4.6	19
41	Photophysical and electrochemical characterization of new poly(arylene vinylene) copolymers containing quinoline or bisquinoline segments. Journal of Polymer Science Part A, 2009, 47, 3370-3379.	2.3	18
42	Organic solar cells of enhanced efficiency and stability using zinc oxide:zinc tungstate nanocomposite as electron extraction layer. Organic Electronics, 2019, 71, 227-237.	2.6	18
43	Laser action of two conjugated polymers in solution and in solid matrix:â€ƒThe effect of aggregates on spontaneous and stimulated emission. Physical Review B, 2002, 65, .	3.2	17
44	Femtosecond Time Resolved Fluorescence Dynamics of a Cationic Water-Soluble Poly(fluorenevinylene-co-phenylenevinylene). Journal of Physical Chemistry B, 2006, 110, 12926-12931.	2.6	17
45	Energy transfer within self-assembled cyclic multichromophoric arrays based on orthogonally arranged donorâ€“acceptor building blocks. Faraday Discussions, 2015, 185, 433-454.	3.2	17
46	Effect of protonation on the photophysical properties of 4-substituted and 4,7-disubstituted quinazoline push-pull chromophores. Dyes and Pigments, 2021, 185, 108948.	3.7	17
47	Oxidative Câ€“H Homocoupling of Pushâ€“Pull Benzothiazoles: An Atom-Economical Route to Highly Emissive Quadrupolar Arylamine-Functionalized 2,2â€²-Bibenzothiazoles with Enhanced Two-Photon Absorption. Organic Letters, 2021, 23, 5512-5517.	4.6	17
48	Excited state dynamics of a partially conjugated polymer studied by femtosecond fluorescence upconversion spectroscopy. Chemical Physics Letters, 2004, 394, 372-376.	2.6	16
49	Branching effect on the linear and nonlinear optical properties of styrylpyrimidines. Physical Chemistry Chemical Physics, 2020, 22, 4165-4176.	2.8	16
50	Two-photon polymerization of a diacrylate using fluorene photoinitiatorsâ€“sensitizers. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 215, 25-30.	3.9	15
51	Dynamics of Intramolecular Energy Hopping in Multi-Bodipy Self-Assembled Metallocyclic Species: A Tool for Probing Subtle Structural Distortions in Solution. Journal of Physical Chemistry C, 2017, 121, 5341-5355.	3.1	15
52	Photophysical and Protonation Time Resolved Studies of Donorâ€“Acceptor Branched Systems With Pyridine Acceptors. Journal of Physical Chemistry A, 2019, 123, 417-428.	2.5	15
53	Study of the Isotropic and Anisotropic Fluorescence of Two Oligothiophenes by Femtosecond Time-Resolved Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 9476-9481.	2.6	13
54	Electron injection studies in TiO2 nanocrystalline films sensitized with fluorene dyes and photovoltaic characterization. The effect of co-adsorption of a bile acid derivative. Chemical Physics Letters, 2013, 563, 63-69.	2.6	13

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55	The effect of additional electron donating group on the photophysics and photovoltaic performance of two new metal free D-Ï€-A sensitizers. Dyes and Pigments, 2015, 121, 316-327.	3.7	13
56	Controlling PbI₂ Stoichiometry during Synthesis to Improve the Performance of Perovskite Photovoltaics. Chemistry of Materials, 2021, 33, 554-566.	6.7	13
57	Substituent Effect on the Photobleaching of Pyrylium Salts under Ultrashort Pulsed Illumination. Journal of Physical Chemistry B, 2006, 110, 2593-2597.	2.6	12
58	Starâ€Shaped Pushâ€Pull Molecules with a Varied Number of Peripheral Acceptors: An Insight into Their Optoelectronic Features. ChemPhotoChem, 2018, 2, 465-474.	3.0	12
59	Evolution of near-soliton initial conditions in non-linear wave equations through their BÃcklund transforms. Chaos, Solitons and Fractals, 2005, 23, 1841-1854.	5.1	11
60	Functionalized Zinc Porphyrins with Various Peripheral Groups for Interfacial Electron Injection Barrier Control in Organic Light Emitting Diodes. ACS Omega, 2018, 3, 10008-10018.	3.5	11
61	Triphenylamine-based fluorophores bearing peripheral diazine regioisomers. Synthesis, characterization, photophysics and two-photon absorption. Dyes and Pigments, 2022, 201, 110230.	3.7	11
62	Electron injection in TiO2 films and quasi-solid state solar cells sensitized with a dipolar fluorene organic dye. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 251, 18-24.	3.9	10
63	Conjugated polymer in isolated and aggregated chain environments studied by amplified spontaneous emission. Physical Review B, 2003, 68, .	3.2	9
64	Dual amplified spontaneous emission and laser action from a model oligo(phenylene vinylene): comparison with the corresponding polymer. Optical Materials, 2004, 27, 503-507.	3.6	9
65	Photoluminescence properties of porous silicon/fluorene dye composites. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 165, 252-255.	3.5	9
66	Solvent-Acidity-Driven Change in Photophysics and Significant Efficiency Improvement in Dye-Sensitized Solar Cells of a Benzothiazole-Derived Organic Sensitizer. Journal of Physical Chemistry C, 2018, 122, 20122-20134.	3.1	9
67	Ultrafast fluorescence dynamics of Sybr Green I/DNA complexes. Chemical Physics Letters, 2010, 485, 187-190.	2.6	8
68	Ultrafast solvation and anisotropy dynamics in a tri-branched molecule based on a triphenylamine core. Dyes and Pigments, 2010, 87, 44-48.	3.7	8
69	Synthesis of two tri-arylamine derivatives as sensitizers in dye-sensitized solar cells: Electron injection studies and photovoltaic characterization. Synthetic Metals, 2014, 188, 77-85.	3.9	8
70	Improved Stability of Polymer Solar Cells in Ambient Air via Atomic Layer Deposition of Ultrathin Dielectric Layers. Advanced Materials Interfaces, 2017, 4, 1700231.	3.7	8
71	The effect of protonation on the excited state dynamics of pyrimidine chromophores. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 391, 112398.	3.9	8
72	Excitation energy transfer in a cationic water-soluble conjugated co-polymer studied by time resolved anisotropy and fluorescence dynamics. Chemical Physics Letters, 2006, 421, 205-209.	2.6	7

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73	Fluorescence and anisotropy dynamics of a CHO substituted terthiophene. Synthetic Metals, 2007, 157, 30-34.	3.9	7
74	Carbon nanotubeâ€“fluorenevinylene hybrids: Synthesis and photophysical properties. Chemical Physics Letters, 2009, 483, 241-246.	2.6	7
75	Energy transfer in aggregated CuInS₂/ZnS core-shell quantum dots deposited as solid films. Journal Physics D: Applied Physics, 2017, 50, 035107.	2.8	5
76	Photophysics, electronic structure and solar cell performance of a donor-acceptor poly(N-dodecyl-2,7-carbazole-alt-benzothiadiazole) copolymer. Organic Electronics, 2018, 59, 202-212.	2.6	4
77	Excitation/detection energy controlled anisotropy dynamics in asymmetrically cyano substituted tri-podal molecules. Physical Chemistry Chemical Physics, 2020, 22, 16681-16690.	2.8	4
78	Examination of the Spatial Distribution of Dyes and Polymers in Thin Films by Two-Photon Microscopy. Monatshefte FÃ¼r Chemie, 2001, 132, 169-175.	1.8	3
79	Commercially available chromophores as low-cost efficient electron injection layers for organic light emitting diodes. Journal Physics D: Applied Physics, 2022, 55, 215106.	2.8	3
80	Photoluminescence in the blue spectral region from fluorene molecules embedded in porous anodic alumina thin films on silicon. Optical Materials, 2009, 31, 1184-1188.	3.6	2
81	Cooperative Self-Assembly Enables Two-Dimensional H-type Aggregation of a Sterically Crowded Perylene-Bisimide Dimer. Crystal Growth and Design, 2019, 19, 4252-4263.	3.0	1