

Yi Liao

List of Publications by Year in descending order

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67
papers

2,677
citations

186265

28
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182427

51
g-index

72
all docs

72
docs citations

72
times ranked

2639
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Lived Photoacid Based upon a Photochromic Reaction. <i>Journal of the American Chemical Society</i> , 2011, 133, 14699-14703.	13.7	242
2	Systematic Study of the Structure~Property Relationship of a Series of Ferrocenyl Nonlinear Optical Chromophores. <i>Journal of the American Chemical Society</i> , 2005, 127, 2758-2766.	13.7	168
3	Theory-Guided Design and Synthesis of Multichromophore Dendrimers:~ An Analysis of the Electro-optic Effect. <i>Journal of the American Chemical Society</i> , 2007, 129, 7523-7530.	13.7	149
4	Synthesis and Magnetic Properties of 3-D [RuII/III2(O2CMe)4]3[MIII(CN)6] (M = Cr, Fe, Co). <i>Journal of the American Chemical Society</i> , 2002, 124, 9336-9337.	13.7	141
5	Design and Applications of Metastable-State Photoacids. <i>Accounts of Chemical Research</i> , 2017, 50, 1956-1964.	15.6	135
6	Visible-light activatable organic CO-releasing molecules (PhotoCORMs) that simultaneously generate fluorophores. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 6671.	2.8	130
7	Guest~Host Cooperativity in Organic Materials Greatly Enhances the Nonlinear Optical Response. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4355-4363.	3.1	120
8	Nonmetallic carbon monoxide releasing molecules (CORMs). <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 8692-8699.	2.8	86
9	A Novel Lattice-Hardening Process To Achieve Highly Efficient and Thermally Stable Nonlinear Optical Polymers. <i>Macromolecules</i> , 2004, 37, 688-690.	4.8	85
10	Antiparallel-Aligned Neutral-Ground-State and Zwitterionic Chromophores as a Nonlinear Optical Material. <i>Journal of the American Chemical Society</i> , 2006, 128, 6847-6853.	13.7	85
11	Single-molecule motions and interactions in live cells reveal target search dynamics in mismatch repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E6898-906.	7.1	72
12	A Reversible Photoacid Functioning in PBS Buffer under Visible Light. <i>Journal of the American Chemical Society</i> , 2015, 137, 11282-11284.	13.7	71
13	Electro-Optical Properties of Polymers Containing Alternating Nonlinear Optical Chromophores and Bulky Spacers. <i>Chemistry of Materials</i> , 2006, 18, 1062-1067.	6.7	62
14	Visible light mediated killing of multidrug-resistant bacteria using photoacids. <i>Journal of Materials Chemistry B</i> , 2013, 1, 997-1001.	5.8	58
15	Heterogeneous Single-Molecule Diffusion in One-, Two-, and Three-Dimensional Microporous Coordination Polymers: Directional, Trapped, and Immobile Guests. <i>Nano Letters</i> , 2012, 12, 3080-3085.	9.1	57
16	Controlled Release of Fragrant Molecules with Visible Light. <i>Chemistry - A European Journal</i> , 2014, 20, 14637-14640.	3.3	57
17	Aldehyde~alkyne~amine (A³) coupling catalyzed by a highly efficient dicopper complex. <i>RSC Advances</i> , 2015, 5, 37737-37741.	3.6	57
18	Physicochemical Study of a Metastable-State Photoacid. <i>Journal of Physical Chemistry A</i> , 2013, 117, 13101-13104.	2.5	56

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19	Tri-component Diels-Alder polymerized dendrimer glass exhibiting large, thermally stable, electro-optic activity. <i>Journal of Materials Chemistry</i> , 2007, 17, 2899-2903.	6.7	51
20	Single-Molecule DNA Polymerase Dynamics at a Bacterial Replisome in Live Cells. <i>Biophysical Journal</i> , 2016, 111, 2562-2569.	0.5	51
21	Visible-Light-Responsive Reversible Photoacid Based on a Metastable Carbanion. <i>Chemistry - A European Journal</i> , 2014, 20, 689-692.	3.3	49
22	Photochromism based on reversible proton transfer. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 300, 22-26.	3.9	49
23	Linear and Nonlinear Optical Properties of a Macrocyclic Trichromophore Bundle with Parallel-Aligned Dipole Moments. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5434-5438.	2.6	45
24	A Hybrid Electrooptic Microring Resonator-Based 16 × 16 ROADMs for Wafer Scale Optical Interconnects. <i>Journal of Lightwave Technology</i> , 2009, 27, 440-448.	4.6	42
25	Photostability studies of π -conjugated chromophores with resonant and nonresonant light excitation for long-life polymeric telecommunication devices. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 2199.	2.1	37
26	Zero-Field Splitting, Field-Dependent Magnetization of Mixed-Valent $S = 3/2$ Diruthenium(II,III) Tetracarboxylates. <i>Journal of Physical Chemistry A</i> , 2004, 108, 7460-7462.	2.5	35
27	Photocontrolled proton transfer in solution and polymers using a novel photoacid with strong $C\text{-}H$ acidity. <i>RSC Advances</i> , 2016, 6, 85420-85426.	3.6	32
28	Molecular Self-Assembly of Mixed High-Beta Zwitterionic and Neutral Ground-State NLO Chromophores. <i>Chemistry of Materials</i> , 2008, 20, 1778-1787.	6.7	31
29	Stability of merocyanine-type photoacids in aqueous solutions. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3664.	1.9	28
30	Dissipative disassembly of colloidal microgel crystals driven by a coupled cyclic reaction network. <i>Soft Matter</i> , 2018, 14, 910-915.	2.7	27
31	Direct electron beam writing of electro-optic polymer microring resonators. <i>Optics Express</i> , 2008, 16, 6592.	3.4	26
32	Modeling Photobleaching of Optical Chromophores: Light-Intensity Effects in Precise Trimming of Integrated Polymer Devices. <i>Journal of Physical Chemistry C</i> , 2008, 112, 8051-8060.	3.1	24
33	Reversible dissolution/formation of polymer nanoparticles controlled by visible light. <i>Nanoscale</i> , 2016, 8, 14070-14073.	5.6	23
34	Modeling the Optical Behavior of Complex Organic Media: From Molecules to Materials. <i>Journal of Physical Chemistry B</i> , 2009, 113, 15581-15588.	2.6	22
35	Negative photochromism of a TCF chromophore. <i>Chemical Communications</i> , 2011, 47, 8575.	4.1	22
36	Electro-optic coefficients of 500 pm/V and beyond for organic materials. , 2005, , .		19

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37	Reversible photo control of proton chemistry. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4116-4124.	2.8	19
38	Facile Synthesis and Photoactivity of Merocyanine-Photoacid Polymers. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800319.	3.9	18
39	Incorporation of photo-carbon monoxide releasing materials into electrospun scaffolds for vascular tissue engineering. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 025009.	3.3	17
40	Photoactivity, reversibility, and stability of a merocyanine-type photoacid in polymer films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 332, 196-199.	3.9	16
41	Alkyne-azide cycloaddition catalyzed by a dinuclear copper(I) complex. <i>Tetrahedron Letters</i> , 2014, 55, 6575-6576.	1.4	15
42	Synthesis and structure of an asymmetric copper(I) dimer with two-coordinate and four-coordinate copper(I) sites. Electronic supplementary information (ESI) available: synthesis, NMR, computational details. See http://www.rsc.org/suppdata/cc/b2/b208865g/ . <i>Chemical Communications</i> , 2002, , 3008-3009.	4.1	14
43	Exceptional electro-optic properties through molecular design and controlled self-assembly. , 2005, 5935, 49.		13
44	Photo Retro-Diels-Alder Reactions. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8093-8099.	2.5	12
45	Accessing 2-Arylbenzofurans by Cu ^I ₂ (pic) ₂ -Catalyzed Tandem Coupling/Cyclization Reaction: Mechanistic Studies and Application to the Synthesis of Stemofuran A and Moracin M. <i>Asian Journal of Organic Chemistry</i> , 2016, 5, 1345-1352.	2.7	12
46	Experimental and Theoretical Characterization of Ultrafast Water-Soluble Photochromic Photoacids. <i>Journal of Physical Chemistry B</i> , 2021, 125, 4120-4131.	2.6	11
47	Ultrasound responsive carbon monoxide releasing micelle. <i>Ultrasonics Sonochemistry</i> , 2021, 72, 105427.	8.2	11
48	Red-light responsive metastable-state photoacid. <i>Dyes and Pigments</i> , 2019, 171, 107719.	3.7	10
49	Microring resonators fabricated by electron beam bleaching of chromophore doped polymers. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	8
50	Photo-induced protonation and conductivity of polyaniline/poly(ethylene glycol) and polyaniline/[poly(ethylene glycol)-grafted polyaniline] composites. <i>Journal of Applied Polymer Science</i> , 2013, 129, 3546-3550.	2.6	8
51	Poly(butyl cyanoacrylate) nanoparticle containing an organic photoCORM. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2666-2672.	2.9	8
52	Organic electro-optic materials. , 2004, , .		7
53	Localized pH Pulses in PBS Buffer Repeatedly Induced by Visible Light. <i>Journal of Physical Chemistry B</i> , 2019, 123, 648-654.	2.6	7
54	Polarization selective electro-optic polymer waveguide devices by direct electron beam writing. <i>Optics Express</i> , 2008, 16, 8472.	3.4	4

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55	Photo- and Thermal-Induced Isomerization of Diels-Alder Adducts of Pentacene and TCNE. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 2707-2710.	2.4	4
56	Acentric lattice electro-optic materials by rational design. , 2005, , .		3
57	Photoinduced protonation of polyaniline assisted by hydrogen-bonding materials. <i>Synthetic Metals</i> , 2011, 161, 1420-1423.	3.9	3
58	A Reversible Photoacid Switched by Different Wavelengths of Light. <i>ChemPhotoChem</i> , 2021, 5, 376-380.	3.0	3
59	Optimizing electro-optic activity in chromophore/polymer composites and in organic chromophore glasses. , 2005, , .		2
60	Side-chain free aromatic polyimides containing anthracene units via Diels-Alder precursors. <i>Journal of Applied Polymer Science</i> , 2009, 112, 2953-2958.	2.6	2
61	Novel organic materials that permanently increase conductivity upon thermal or photo treatment. <i>Organic Electronics</i> , 2009, 10, 368-371.	2.6	2
62	Photoresponsive polyacrylamide based on grafted azodianiline. <i>Journal of Applied Polymer Science</i> , 2008, 109, 3244-3248.	2.6	1
63	Synthesis of Site-Specific Crown Ether Adducts to DNA Abasic Sites: 8-Oxo-7,8-Dihydro-2-Deoxyguanosine and 2-Deoxycytidine. <i>Methods in Molecular Biology</i> , 2019, 1973, 15-25.	0.9	1
64	Organic electro-optic glasses for WDM applications. , 2005, , .		0
65	Theoretically-inspired nanoengineering of complex photonic media. , 2006, , .		0
66	Electro-optic polymer waveguide ring resonators defined with three electron beam irradiation effects. , 2008, , .		0
67	Visible light responsive systems based on metastable-state photoacids. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0