Yi Liao

List of Publications by Year in descending order

67 papers	2,677 citations	186265 28 h-index	182427 51 g-index
72 all docs	72 docs citations	72 times ranked	2639 citing authors

#	Article	IF	Citations
1	Reversible photo control of proton chemistry. Physical Chemistry Chemical Physics, 2022, 24, 4116-4124.	2.8	19
2	A Reversible Photoacid Switched by Different Wavelengths of Light. ChemPhotoChem, 2021, 5, 376-380.	3.0	3
3	Experimental and Theoretical Characterization of Ultrafast Water-Soluble Photochromic Photoacids. Journal of Physical Chemistry B, 2021, 125, 4120-4131.	2.6	11
4	Ultrasound responsive carbon monoxide releasing micelle. Ultrasonics Sonochemistry, 2021, 72, 105427.	8.2	11
5	Red-light responsive metastable-state photoacid. Dyes and Pigments, 2019, 171, 107719.	3.7	10
6	Poly(butyl cyanoacrylate) nanoparticle containing an organic photoCORM. Photochemical and Photobiological Sciences, 2019, 18, 2666-2672.	2.9	8
7	Synthesis of Site-Specific Crown Ether Adducts to DNA Abasic Sites: 8-Oxo-7,8-Dihydro-2â€²-Deoxyguanosine and 2â€²-Deoxycytidine. Methods in Molecular Biology, 2019, 1973, 15-25.	0.9	1
8	Localized pH Pulses in PBS Buffer Repeatedly Induced by Visible Light. Journal of Physical Chemistry B, 2019, 123, 648-654.	2.6	7
9	Dissipative disassembly of colloidal microgel crystals driven by a coupled cyclic reaction network. Soft Matter, 2018, 14, 910-915.	2.7	27
10	Facile Synthesis and Photoactivity of Merocyanineâ€Photoacid Polymers. Macromolecular Rapid Communications, 2018, 39, e1800319.	3.9	18
11	Nonmetallic carbon monoxide releasing molecules (CORMs). Organic and Biomolecular Chemistry, 2017, 15, 8692-8699.	2.8	86
12	Design and Applications of Metastable-State Photoacids. Accounts of Chemical Research, 2017, 50, 1956-1964.	15.6	135
13	Stability of merocyanine-type photoacids in aqueous solutions. Journal of Physical Organic Chemistry, 2017, 30, e3664.	1.9	28
14	Photoactivity, reversibility, and stability of a merocyanine-type photoacid in polymer films. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 332, 196-199.	3.9	16
15	Reversible dissolution/formation of polymer nanoparticles controlled by visible light. Nanoscale, 2016, 8, 14070-14073.	5.6	23
16	Single-Molecule DNA Polymerase Dynamics at a Bacterial Replisome in Live Cells. Biophysical Journal, 2016, 111, 2562-2569.	0.5	51
17	Photocontrolled proton transfer in solution and polymers using a novel photoacid with strong Câ€“H acidity. RSC Advances, 2016, 6, 85420-85426.	3.6	32
18	Accessing 2â€Arylbenzofurans by Cu^I₂(pip)₂â€Catalyzed Tandem Coupling/Cyclization Reaction: Mechanistic Studies and Application to the Synthesis of Stemofuran A and Moracin M. Asian Journal of Organic Chemistry, 2016, 5, 1345-1352.	2.7	12

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19	Incorporation of photo-carbon monoxide releasing materials into electrospun scaffolds for vascular tissue engineering. Biomedical Materials (Bristol), 2016, 11, 025009.	3.3	17
20	Aldehydeâ€“alkyneâ€“amine (A³) coupling catalyzed by a highly efficient dicopper complex. RSC Advances, 2015, 5, 37737-37741.	3.6	57
21	Single-molecule motions and interactions in live cells reveal target search dynamics in mismatch repair. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6898-906.	7.1	72
22	A Reversible Photoacid Functioning in PBS Buffer under Visible Light. Journal of the American Chemical Society, 2015, 137, 11282-11284.	13.7	71
23	Visible light responsive systems based on metastable-state photoacids. Proceedings of SPIE, 2015, , .	0.8	0
24	Photochromism based on reversible proton transfer. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 300, 22-26.	3.9	49
25	Visibleâ€Lightâ€Responsive Reversible Photoacid Based on a Metastable Carbanion. Chemistry - A European Journal, 2014, 20, 689-692.	3.3	49
26	Alkyneâ€“azide cycloaddition catalyzed by a dinuclear copper(I) complex. Tetrahedron Letters, 2014, 55, 6575-6576.	1.4	15
27	Controlled Release of Fragrant Molecules with Visible Light. Chemistry - A European Journal, 2014, 20, 14637-14640.	3.3	57
28	Photoâ€induced protonation and conductivity of polyaniline/poly(ethylene glycol) and polyaniline/[poly(ethylene glycol)â€grafted polyaniline] composites. Journal of Applied Polymer Science, 2013, 129, 3546-3550.	2.6	8
29	Visible-light activatable organic CO-releasing molecules (PhotoCORMs) that simultaneously generate fluorophores. Organic and Biomolecular Chemistry, 2013, 11, 6671.	2.8	130
30	Physicochemical Study of a Metastable-State Photoacid. Journal of Physical Chemistry A, 2013, 117, 13101-13104.	2.5	56
31	Visible light mediated killing of multidrug-resistant bacteria using photoacids. Journal of Materials Chemistry B, 2013, 1, 997-1001.	5.8	58
32	Photoâ€and Thermalâ€Induced Isomerization of Dielsâ€“Alder Adducts of Pentacene and TCNE. European Journal of Organic Chemistry, 2012, 2012, 2707-2710.	2.4	4
33	Heterogeneous Single-Molecule Diffusion in One-, Two-, and Three-Dimensional Microporous Coordination Polymers: Directional, Trapped, and Immobile Guests. Nano Letters, 2012, 12, 3080-3085.	9.1	57
34	Negative photochromism of a TCF chromophore. Chemical Communications, 2011, 47, 8575.	4.1	22
35	Photo Retro-Dielsâ€“Alder Reactions. Journal of Physical Chemistry A, 2011, 115, 8093-8099.	2.5	12
36	Long-Lived Photoacid Based upon a Photochromic Reaction. Journal of the American Chemical Society, 2011, 133, 14699-14703.	13.7	242

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37	Photoinduced protonation of polyaniline assisted by hydrogen-bonding materials. Synthetic Metals, 2011, 161, 1420-1423.	3.9	3
38	Modeling the Optical Behavior of Complex Organic Media: From Molecules to Materials. Journal of Physical Chemistry B, 2009, 113, 15581-15588.	2.6	22
39	Sideâ€chain free aromatic polyimides containing anthracene units via Dielsâ€Alder precursors. Journal of Applied Polymer Science, 2009, 112, 2953-2958.	2.6	2
40	Novel organic materials that permanently increase conductivity upon thermal or photo treatment. Organic Electronics, 2009, 10, 368-371.	2.6	2
41	A Hybrid Electrooptic Microring Resonator-Based $1 imes 4imes 1$ ROADM for Wafer Scale Optical Interconnects. Journal of Lightwave Technology, 2009, 27, 440-448.	4.6	42
42	Photoresponsive polyacrylamide based on grafted azodianiline. Journal of Applied Polymer Science, 2008, 109, 3244-3248.	2.6	1
43	Microring resonators fabricated by electron beam bleaching of chromophore doped polymers. Applied Physics Letters, 2008, 92, .	3.3	8
44	Direct electron beam writing of electro-optic polymer microring resonators. Optics Express, 2008, 16, 6592.	3.4	26
45	Polarization selective electro-optic polymer waveguide devices by direct electron beam writing. Optics Express, 2008, 16, 8472.	3.4	4
46	Molecular Self-Assembly of Mixed High-Beta Zwitterionic and Neutral Ground-State NLO Chromophores. Chemistry of Materials, 2008, 20, 1778-1787.	6.7	31
47	Guestâ^'Host Cooperativity in Organic Materials Greatly Enhances the Nonlinear Optical Response. Journal of Physical Chemistry C, 2008, 112, 4355-4363.	3.1	120
48	Modeling Photobleaching of Optical Chromophores: Light-Intensity Effects in Precise Trimming of Integrated Polymer Devices. Journal of Physical Chemistry C, 2008, 112, 8051-8060.	3.1	24
49	Electro-optic polymer waveguide ring resonators defined with three electron beam irradiation effects. , 2008, , .		0
50	Photostability studies of Ï€-conjugated chromophores with resonant and nonresonant light excitation for long-life polymeric telecommunication devices. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2199.	2.1	37
51	Tri-component Dielsâ€“Alder polymerized dendrimer glass exhibiting large, thermally stable, electro-optic activity. Journal of Materials Chemistry, 2007, 17, 2899-2903.	6.7	51
52	Theory-Guided Design and Synthesis of Multichromophore Dendrimers:â€‰ An Analysis of the Electro-optic Effect. Journal of the American Chemical Society, 2007, 129, 7523-7530.	13.7	149
53	Linear and Nonlinear Optical Properties of a Macrocyclic Trichromophore Bundle with Parallel-Aligned Dipole Moments. Journal of Physical Chemistry B, 2006, 110, 5434-5438.	2.6	45
54	Electro-Optical Properties of Polymers Containing Alternating Nonlinear Optical Chromophores and Bulky Spacers. Chemistry of Materials, 2006, 18, 1062-1067.	6.7	62

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55	Theoretically-inspired nanoengineering of complex photonic media. , 2006, , .		0
56	Antiparallel-Aligned Neutral-Ground-State and Zwitterionic Chromophores as a Nonlinear Optical Material. Journal of the American Chemical Society, 2006, 128, 6847-6853.	13.7	85
57	Optimizing electro-optic activity in chromophore/polymer composites and in organic chromophore glasses. , 2005, , .		2
58	Acentric lattice electro-optic materials by rational design. , 2005, , .		3
59	Organic electro-optic glasses for WDM applications. , 2005, , .		0
60	Exceptional electro-optic properties through molecular design and controlled self-assembly. , 2005, 5935, 49.		13
61	Electro-optic coefficients of 500 pm/V and beyond for organic materials. , 2005, , .		19
62	Systematic Study of the Structureâ^'Property Relationship of a Series of Ferrocenyl Nonlinear Optical Chromophores. Journal of the American Chemical Society, 2005, 127, 2758-2766.	13.7	168
63	A Novel Lattice-Hardening Process To Achieve Highly Efficient and Thermally Stable Nonlinear Optical Polymers. Macromolecules, 2004, 37, 688-690.	4.8	85
64	Zero-Field Splitting, Field-Dependent Magnetization of Mixed-Valent S = 3/2 Diruthenium(II,III) Tetracarboxylates. Journal of Physical Chemistry A, 2004, 108, 7460-7462.	2.5	35
65	Organic electro-optic materials. , 2004, , .		7
66	Synthesis and Magnetic Properties of 3-D [RuII/III2(O2CMe)4]3[MIII(CN)6] (M = Cr, Fe, Co). Journal of the American Chemical Society, 2002, 124, 9336-9337.	13.7	141
67	Synthesis and structure of an asymmetric copper(i) dimer with two-coordinate and four-coordinate copper(i) sitesElectronic supplementary information (ESI) available: synthesis, NMR, computational details. See http://www.rsc.org/suppdata/cc/b2/b208865g/. Chemical Communications, 2002, , 3008-3009.	4.1	14