Zikai He

List of Publications by Year in descending order

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Version: 2024-02-01

47 papers	5,437 citations	172457 29 h-index	214800 47 g-index
49 all docs	49 docs citations	49 times ranked	4950 citing authors

#	Article	IF	Citations
1	Room-temperature phosphorescence from organic aggregates. Nature Reviews Materials, 2020, 5, 869-885.	48.7	786
2	White light emission from a single organic molecule with dual phosphorescence at room temperature. Nature Communications, 2017, 8, 416.	12.8	621
3	Rational Molecular Design for Achieving Persistent and Efficient Pure Organic Room-Temperature Phosphorescence. CheM, 2016, 1, 592-602.	11.7	610
4	A Ratiometric Fluorescent Probe Based on ESIPT and AIE Processes for Alkaline Phosphatase Activity Assay and Visualization in Living Cells. ACS Applied Materials & Interfaces, 2014, 6, 17245-17254.	8.0	281
5	Journey of Aggregation-Induced Emission Research. ACS Omega, 2018, 3, 3267-3277.	3.5	234
6	Multiple Antiâ€Counterfeiting Guarantees from a Simple Tetraphenylethylene Derivative â€“ Highâ€Contrasted and Multiâ€State Mechanochromism and Photochromism. Angewandte Chemie - International Edition, 2019, 58, 17814-17819.	13.8	229
7	Designing Efficient and Ultralong Pure Organic Roomâ€Temperature Phosphorescent Materials by Structural Isomerism. Angewandte Chemie - International Edition, 2018, 57, 7997-8001.	13.8	224
8	Highly sensitive switching of solid-state luminescence by controlling intersystem crossing. Nature Communications, 2018, 9, 3044.	12.8	203
9	Why Do Simple Molecules with â€œIsolatedâ€•Phenyl Rings Emit Visible Light?. Journal of the American Chemical Society, 2017, 139, 16264-16272.	13.7	201
10	Boosting the efficiency of organic persistent room-temperature phosphorescence by intramolecular triplet-triplet energy transfer. Nature Communications, 2019, 10, 1595.	12.8	194
11	AIEgens for dark through-bond energy transfer: design, synthesis, theoretical study and application in ratiometric Hg²⁺ sensing. Chemical Science, 2017, 8, 2047-2055.	7.4	187
12	Two Are Better Than One: A Design Principle for Ultralongâ€Persistent Luminescence of Pure Organics. Advanced Materials, 2020, 32, e2001026.	21.0	164
13	Polymorphism-Dependent and Switchable Emission of Butterfly-Like Bis(diarylmethylene)dihydroanthracenes. Chemistry of Materials, 2015, 27, 6601-6607.	6.7	144
14	AIEgen-based theranostic system: targeted imaging of cancer cells and adjuvant amplification of antitumor efficacy of paclitaxel. Chemical Science, 2017, 8, 2191-2198.	7.4	101
15	Selfâ€Assembled Monolayers of Cyclohexylâ€Terminated Phosphonic Acids as a General Dielectric Surface for Highâ€Performance Organic Thinâ€Film Transistors. Advanced Materials, 2014, 26, 7190-7196.	21.0	95
16	Selfâ€Assembled Monolayers of Phosphonic Acids with Enhanced Surface Energy for Highâ€Performance Solutionâ€Processed Nâ€Channel Organic Thinâ€Film Transistors. Angewandte Chemie - International Edition, 2013, 52, 6222-6227.	13.8	89
17	Aggregation-induced emission and aggregation-promoted photochromism of bis(diphenylmethylene)dihydroacenes. Chemical Science, 2015, 6, 3538-3543.	7.4	86
18	A red-emissive antibodyâ€“AIEgen conjugate for turn-on and wash-free imaging of specific cancer cells. Chemical Science, 2017, 8, 7014-7024.	7.4	79

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19	Designing Efficient and Ultralong Pure Organic Roomâ€Temperature Phosphorescent Materials by Structural Isomerism. Angewandte Chemie, 2018, 130, 8129-8133.	2.0	72
20	Turning On Solidâ€State Luminescence by Phototriggered Subtle Molecular Conformation Variations. Advanced Materials, 2021, 33, e2006844.	21.0	67
21	Spiro-Functionalized Diphenylethenes: Suppression of a Reversible Photocyclization Contributes to the Aggregation-Induced Emission Effect. Journal of the American Chemical Society, 2019, 141, 9803-9807.	13.7	65
22	Hydrogen-Bonded Dihydrotetraazapentacenes. Organic Letters, 2012, 14, 1050-1053.	4.6	64
23	Multiple yet switchable hydrogen-bonded organic frameworks with white-light emission. Nature Communications, 2022, 13, 1882.	12.8	61
24	Highly Electron-Deficient Hexaazapentacenes and Their Dihydro Precursors. Organic Letters, 2012, 14, 4190-4193.	4.6	60
25	Multiple Antiâ€Counterfeiting Guarantees from a Simple Tetraphenylethylene Derivative â€“ Highâ€Contrasted and Multiâ€State Mechanochromism and Photochromism. Angewandte Chemie, 2019, 131, 17978-17983.	2.0	54
26	Polyyne bridged AIE luminogens with red emission: design, synthesis, properties and applications. Journal of Materials Chemistry B, 2017, 5, 1650-1657.	5.8	50
27	Conjugated macrocycles of phenanthrene: a new segment of [6,6]-carbon nanotube and solution-processed organic semiconductors. Chemical Science, 2013, 4, 4525.	7.4	48
28	Facile emission color tuning and circularly polarized light generation of single luminogen in engineering robust forms. Materials Horizons, 2019, 6, 405-411.	12.2	41
29	Development of benzylidene-methyloxazolone based AIEgens and decipherment of their working mechanism. Journal of Materials Chemistry C, 2017, 5, 7191-7199.	5.5	33
30	Tailoring the Molecular Properties with Isomerism Effect of AIEgens. Advanced Functional Materials, 2019, 29, 1903834.	14.9	31
31	Regio- and stereoselective construction of stimuli-responsive macromolecules by a sequential coupling-hydroamination polymerization route. Polymer Chemistry, 2015, 6, 8297-8305.	3.9	27
32	Purely Organic Room-Temperature Phosphorescence Endowing Fast Intersystem Crossing from Through-Space Spinâ€“Orbit Coupling. Jacs Au, 2021, 1, 1694-1699.	7.9	27
33	Strong Circularlyâ€Polarized Roomâ€Temperature Phosphorescence from a Feasibly Separable Scaffold of Bidibenzo[b,d]furan with Locked Axial Chirality. Angewandte Chemie - International Edition, 2022, 61, .	13.8	27
34	Aggregationâ€Inducedâ€Emissionâ€Active Macrocycle Exhibiting Analogous Triply and Singly Twisted MÃ¶bius Topologies. Chemistry - A European Journal, 2015, 21, 11707-11711.	3.3	20
35	A Simple Approach to Achieve Organic Radicals with Unusual Solid-State Emission and Persistent Stability. CCS Chemistry, 2022, 4, 1912-1920.	7.8	20
36	Induced crystallization of rubrene with diazapentacene as the template. Journal of Materials Chemistry, 2012, 22, 4396.	6.7	19

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37	A Luminescent Nitrogenâ€Containing Polycyclic Aromatic Hydrocarbon Synthesized by Photocyclodehydrogenation with Unprecedented Regioselectivity. Chemistry - A European Journal, 2015, 21, 17973-17980.	3.3	17
38	An Aggregationâ€Induced Emissionâ€Active Macrocycle: Illusory Topology of the Penrose Stairs. ChemPlusChem, 2015, 80, 1245-1249.	2.8	13
39	Controllable room temperature phosphorescence, mechanoluminescence and polymorphism of a carbazole derivative. Materials Horizons, 2021, 8, 2816-2822.	12.2	13
40	Nâ€Phenylated Nâ€Heteroacenes: Synthesis, Structures, and Properties. ChemPlusChem, 2017, 82, 1034-1038.	2.8	12
41	Synthesis of poly(1,5-diaminonaphthalene) microparticles with abundant amino and imino groups as strong adsorbers for heavy metal ions. Mikrochimica Acta, 2019, 186, 208.	5.0	12
42	Control of polymorphism in solution-processed organic thin film transistors by self-assembled monolayers. Science China Chemistry, 2020, 63, 1221-1229.	8.2	11
43	Highly emissive phenylene-expanded [5]radialene. Chemical Communications, 2020, 56, 3911-3914.	4.1	11
44	Recognition mechanism of molecularly imprinted polymers by aggregation-induced emission. Journal of Materials Chemistry C, 2020, 8, 13574-13581.	5.5	10
45	New Mechanistic Insights into the AIE Phenomenon. ACS Symposium Series, 2016, , 5-20.	0.5	3
46	Strong Circularlyâ€polarized Roomâ€temperature Phosphorescence from a Feasibly Separable Scaffold of Bidibenzo[b,d]furan with Locked Axial Chirality. Angewandte Chemie, 0, , .	2.0	2
47	Frontispiz: Strong Circularlyâ€Polarized Roomâ€Temperature Phosphorescence from a Feasibly Separable Scaffold of Bidibenzo[b,d]furan with Locked Axial Chirality. Angewandte Chemie, 2022, 134, .	2.0	2