

Cheng Zhang

List of Publications by Year in descending order

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72
papers

3,453
citations

147801

31
h-index

144013

57
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74
all docs

74
docs citations

74
times ranked

4345
citing authors

#	ARTICLE	IF	CITATIONS
1	A Thieno[3,4- <i>b</i>]thiophene-Based Non-fullerene Electron Acceptor for High-Performance Bulk-Heterojunction Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 15523-15526.	13.7	286
2	Efficient Semitransparent Solar Cells with High NIR Responsiveness Enabled by a Small Bandgap Electron Acceptor. <i>Advanced Materials</i> , 2017, 29, 1606574.	21.0	252
3	Ratiometric fluorescent paper sensor utilizing hybrid carbon dots "quantum dots for the visual determination of copper ions. <i>Nanoscale</i> , 2016, 8, 5977-5984.	5.6	249
4	White Light Emission from an Integrated Upconversion Nanostructure: Toward Multicolor Displays Modulated by Laser Power. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11531-11535.	13.8	163
5	Thieno[3,4- <i>b</i>]thiophene-Based Novel Small-Molecule Optoelectronic Materials. <i>Accounts of Chemical Research</i> , 2017, 50, 1342-1350.	15.6	148
6	Two-Dimensional Γ -Expanded Quinoidal Terthiophenes Terminated with Dicyanomethylenes as n-Type Semiconductors for High-Performance Organic Thin-Film Transistors. <i>Journal of the American Chemical Society</i> , 2014, 136, 16176-16184.	13.7	147
7	Dual-Colored Carbon Dot Ratiometric Fluorescent Test Paper Based on a Specific Spectral Energy Transfer for Semiquantitative Assay of Copper Ions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18897-18903.	8.0	133
8	Dendritic Hydrogels with Robust Inherent Antibacterial Properties for Promoting Bacteria-Infected Wound Healing. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11144-11155.	8.0	116
9	Microwave-assisted synthesis of cyclen functional carbon dots to construct a ratiometric fluorescent probe for tetracycline detection. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9636-9641.	5.5	107
10	Pursuing High-Mobility n-Type Organic Semiconductors by Combination of "Molecule" Framework and "Side Chain" Engineering. <i>Advanced Materials</i> , 2016, 28, 8456-8462.	21.0	93
11	Pullulan-derived nanocomposite hydrogels for wastewater remediation: Synthesis and characterization. <i>Journal of Colloid and Interface Science</i> , 2019, 542, 253-262.	9.4	87
12	Cholesteric Aggregation at the Quinoidal-to-Diradical Border Enabled Stable n-Doped Conductor. <i>CheM</i> , 2019, 5, 964-976.	11.7	79
13	Efficient Solution-Processed n-Type Small-Molecule Thermoelectric Materials Achieved by Precisely Regulating Energy Level of Organic Dopants. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28795-28801.	8.0	78
14	Synthesis, Characterization, and Catalysis in μ -Caprolactone Polymerization of Aluminum and Zinc Complexes Supported by <i>N,N,N,N</i> -Chelate Ligands. <i>Organometallics</i> , 2008, 27, 1626-1633.	2.3	77
15	Highly efficient removal of antibiotic from biomedical wastewater using Fenton-like catalyst magnetic pullulan hydrogels. <i>Carbohydrate Polymers</i> , 2021, 262, 117951.	10.2	74
16	Vertically Aligned ZnO@ZnS Nanorod Chip with Improved Photocatalytic Activity for Antibiotics Degradation. <i>ACS Applied Nano Materials</i> , 2018, 1, 793-799.	5.0	70
17	Cobalt and Nickel Complexes Bearing Pyrazolyliminophosphorane Ligands: Synthesis, Characterisation and Catalytic Ethylene Oligomerisation Behaviour. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 4895-4902.	2.0	64
18	Modulating surficial oxygen vacancy of the VO ₂ nanostructure to boost its electromagnetic absorption performance. <i>Journal of Materials Chemistry C</i> , 0, , .	5.5	56

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19	Imaging-based fluorescent sensing platform for quantitative monitoring and visualizing of fluoride ions with dual-emission quantum dots hybrid. <i>Biosensors and Bioelectronics</i> , 2019, 128, 61-67.	10.1	50
20	Noncentrosymmetric Columnar Liquid Crystals with the Bulk Photovoltaic Effect for Organic Photodetectors. <i>Journal of the American Chemical Society</i> , 2020, 142, 3326-3330.	13.7	49
21	UV-assisted ultrafast construction of robust Fe ₃ O ₄ /polydopamine/Ag Fenton-like catalysts for highly efficient micropollutant decomposition. <i>Science of the Total Environment</i> , 2022, 810, 151182.	8.0	49
22	Developing Quinoidal Fluorophores with Unusually Strong Red/Near-Infrared Emission. <i>Journal of the American Chemical Society</i> , 2015, 137, 11294-11302.	13.7	47
23	Fabrication of Nickel Oxide Nanopillar Arrays on Flexible Electrodes for Highly Efficient Perovskite Solar Cells. <i>Nano Letters</i> , 2019, 19, 3676-3683.	9.1	41
24	Incorporation of dumbbell-shaped and Y-shaped cross-linkers in adjustable pullulan/polydopamine hydrogels for selective adsorption of cationic dyes. <i>Environmental Research</i> , 2020, 182, 109010.	7.5	40
25	n-Type Quinoidal Oligothiophene-Based Semiconductors for Thin-Film Transistors and Thermoelectrics. <i>Advanced Functional Materials</i> , 2020, 30, 2000765.	14.9	40
26	Field-portable ratiometric fluorescence imaging of dual-color label-free carbon dots for uranyl ions detection with cellphone-based optical platform. <i>Chinese Chemical Letters</i> , 2020, 31, 2925-2928.	9.0	39
27	Ullmann-Type Intramolecular C–O Reaction Toward Thieno[3,2- <i>b</i>]furan Derivatives with up to Six Fused Rings. <i>Journal of Organic Chemistry</i> , 2017, 82, 10920-10927.	3.2	36
28	Low-bandgap thieno[3,4- <i>c</i>]pyrrole-4,6-dione-polymers for high-performance solar cells with significantly enhanced photocurrents. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11194-11198.	10.3	35
29	Stable Cross-Conjugated Tetrathiophene Diradical. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11291-11295.	13.8	35
30	A Multitargeted Electrochemiluminescent Biosensor Coupling DNAzyme with Cascading Amplification for Analyzing Myocardial miRNAs. <i>Analytical Chemistry</i> , 2021, 93, 7516-7522.	6.5	35
31	Fluorescent carbon dots embedded in mesoporous silica nanospheres: A simple platform for Cr(VI) detection in environmental water. <i>Journal of Hazardous Materials</i> , 2021, 415, 125699.	12.4	34
32	N,O-chelate aluminum and zinc complexes: synthesis and catalysis in the ring-opening polymerization of ϵ -caprolactone. <i>Applied Organometallic Chemistry</i> , 2009, 23, 9-18.	3.5	33
33	A near-infrared fluorescent probe for highly specific and ultrasensitive detection of hypochlorite ions in living cells. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 4441-4450.	3.7	33
34	Modulating Triplet Excited-State Energy in Phosphorescent Carbon Dots for Information Encryption and Anti-Counterfeiting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43241-43246.	8.0	33
35	Heteroatom-free conjugated tetraphenylethylene polymers for selectively fluorescent detection of tetracycline. <i>Analytica Chimica Acta</i> , 2022, 1190, 339236.	5.4	32
36	A coumarin-connected carboxylic indolinium sensor for cyanide detection in absolute aqueous medium and its application in biological cell imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117710.	3.9	31

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37	Two highly sensitive fluorescent probes based on cinnamaldehyde with large Stokes shift for sensing of HSO ₃ ⁻ in pure water and living cells. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6959-6968.	3.7	30
38	Upconversion color tuning in Ce ³⁺ -doped LiYF ₄ :Yb ³⁺ /Ho ³⁺ @LiYF ₄ nanoparticles towards ratiometric fluorescence detection of chromium(III). <i>Journal of Colloid and Interface Science</i> , 2017, 493, 10-16.	9.4	29
39	A Designed Ladder-Type Heteroarene Benzodi(Thienopyran) for High-Performance Fullerene-Free Organic Solar Cells. <i>Solar Rrl</i> , 2017, 1, 1700165.	5.8	25
40	Insight into thin-film stacking modes of π -expanded quinoidal molecules on charge transport property via side-chain engineering. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1935-1943.	5.5	24
41	Coal based carbon dots: Recent advances in synthesis, properties, and applications. <i>Nano Select</i> , 2021, 2, 1589-1604.	3.7	24
42	Fast preparation of Fe ₃ O ₄ @polydopamine/Au for highly efficient degradation of tetracycline. <i>Chemosphere</i> , 2021, 285, 131523.	8.2	24
43	Synthesis and Characterization of Iron, Cobalt, and Nickel Complexes Bearing Novel N,N-Chelate Ligands and Their Catalytic Properties in Ethylene Oligomerization. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 2477-2487.	2.0	22
44	Strongly fluorescent cysteamine-coated copper nanoclusters as a fluorescent probe for determination of picric acid. <i>Mikrochimica Acta</i> , 2018, 185, 507.	5.0	21
45	Design and Synthesis of Nanosensor Based on Unsaturated Double Bond Functional Carbon Dots for Phenylephrine Detection Using Bromine As a Bridge. <i>Analytical Chemistry</i> , 2021, 93, 5145-5150.	6.5	21
46	A novel amorphous CoS _x /NH ₂ -MIL-125 composite for photocatalytic degradation of rhodamine B under visible light. <i>Journal of Materials Science</i> , 2020, 55, 16171-16183.	3.7	19
47	Palladium-Catalyzed Allylic Alkylation via Photocatalytic Nucleophile Generation. <i>ACS Catalysis</i> , 2021, 11, 6757-6762.	11.2	19
48	A large-bandgap small-molecule electron acceptor utilizing a new indacenodibenzothiophene core for organic solar cells. <i>Materials Chemistry Frontiers</i> , 2018, 2, 136-142.	5.9	18
49	Ratiometric determination of copper(II) using dually emitting Mn(II)-doped ZnS quantum dots as a fluorescent probe. <i>Mikrochimica Acta</i> , 2018, 185, 511.	5.0	17
50	Functional sandwich-like organic/inorganic nanoplates from gelable triblock terpolymers. <i>Journal of Materials Chemistry</i> , 2009, 19, 3482.	6.7	16
51	Applying the heteroatom effect of chalcogen for high-performance small-molecule solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3425-3433.	10.3	14
52	Naphthalene-benzoindeole derived two novel fluorometric pH-Responsive probes for environmental systems and bioimaging. <i>Talanta</i> , 2019, 203, 90-98.	5.5	14
53	The impact of regiochemistry of conjugated molecules on the performance of organic electronic devices. <i>Chinese Chemical Letters</i> , 2016, 27, 1357-1366.	9.0	13
54	A Design Principle for Polar Assemblies with C ₃ -Sym Bowl-Shaped π -Conjugated Molecules. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3261-3267.	13.8	12

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55	A benzaldehyde-indole fused chromophore-based fluorescent probe for double-response to cyanide and hypochlorite in living cells. <i>Analyst</i> , 2021, 146, 5658-5667.	3.5	12
56	Concentration-dependent multi-color humic acid-based carbon dots for luminescent polymer composite films. <i>Journal of Materials Science</i> , 2022, 57, 1069-1083.	3.7	9
57	Fabrication of ceramic oxide-coated SWNT composites by sol-gel process with a polymer glue. <i>Journal of Nanoparticle Research</i> , 2011, 13, 3731-3740.	1.9	8
58	Stable Cross-Linked Conjugated Tetrathiophene Diradical. <i>Angewandte Chemie</i> , 2019, 131, 11413.	2.0	8
59	Azacalix[3]triazines: A Substructure of Triazine-Based Graphitic Carbon Nitride Featuring Anion- π Interactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16377-16381.	13.8	6
60	Tetraphenylethylene-vitamin E Conjugates as sensitive aggregation-induced emission probes for selective detection of explosive FOX-7. <i>Analytica Chimica Acta</i> , 2021, 1164, 338525.	5.4	6
61	Fabrication of surfactant-removed polymer composites with single-walled carbon nanotube networks. <i>Journal of Applied Polymer Science</i> , 2011, 119, 155-161.	2.6	5
62	Steric Hindrance Modulation toward High Performance 1,3-Bis(thieno[3,4-b]thiophen-6-yl)-4-hydroxythieno[3,4-c]pyrrole-4,6-dione-Based Polymer Solar Cells with Enhanced Open-Circuit Voltage. <i>Advanced Electronic Materials</i> , 2017, 3, 1700213.	3.1	4
63	Red fluorescent zwitterionic naphthalenediimides with di/mono-benzimidazolium and a negatively-charged oxygen substituent. <i>Chemical Communications</i> , 2021, 57, 9422-9425.	4.1	4
64	Synthesis of cationic π -extended imidazolium salts by sequential Cu-catalyzed arylation/annulation and photocyclization. <i>Chemical Communications</i> , 2022, 58, 541-544.	4.1	4
65	Pegylated single-walled carbon nanotubes with gelable block copolymers. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2011, 29, 762-771.	3.8	3
66	A Design Principle for Polar Assemblies with C ₃ Sym Bowl-Shaped π -Conjugated Molecules. <i>Angewandte Chemie</i> , 2021, 133, 3298-3304.	2.0	3
67	Planar Tetraindolodiplediadiene via Zirconium-Promoted Intramolecular Indolyl C4-H Homocoupling. <i>Organic Letters</i> , 2022, 24, 4197-4201.	4.6	3
68	18 β -Glycyrrhetic acid aggregation-induced emission probes for visual fluorescence detection of explosive as well multi-functional applications. <i>New Journal of Chemistry</i> , 2022, 46, 1896-1904.	2.8	2
69	Electrically Driven Hydrogenation of MoO ₃ Nanoparticles in Protonic Acid for Oxidative Degradation of Micropollutants. <i>ACS Applied Nano Materials</i> , 0, , .	5.0	2
70	Band-pass filter-assisted ratiometric fluorescent nanoprobe composed of N-(2-aminoethyl-1,8-naphthalimide)-functionalized gold nanoclusters for the determination of alkaline phosphatase using digital image analysis. <i>Mikrochimica Acta</i> , 2021, 188, 218.	5.0	1
71	Azacalix[3]triazines: A Substructure of Triazine-Based Graphitic Carbon Nitride Featuring Anion- π Interactions. <i>Angewandte Chemie</i> , 2021, 133, 16513-16517.	2.0	1
72	Organic Electronics: Pursuing High-Mobility n-Type Organic Semiconductors by Combination of π -Molecule Framework and σ -Side Chain Engineering (Adv. Mater. 38/2016). <i>Advanced Materials</i> , 2016, 28, 8455-8455.	16.28	0