

Jing Cao

List of Publications by Year in descending order

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62
papers

3,540
citations

185998

28
h-index

138251

58
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63
all docs

63
docs citations

63
times ranked

5137
citing authors

#	ARTICLE	IF	CITATIONS
1	MOF-Derived Hollow CoS Decorated with CeO _x Nanoparticles for Boosting Oxygen Evolution Reaction Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8654-8658.	7.2	369
2	Efficient, Hysteresis-Free, and Stable Perovskite Solar Cells with ZnO as Electron Transport Layer: Effect of Surface Passivation. <i>Advanced Materials</i> , 2018, 30, 1705596.	11.1	363
3	Identifying the Molecular Structures of Intermediates for Optimizing the Fabrication of High-Quality Perovskite Films. <i>Journal of the American Chemical Society</i> , 2016, 138, 9919-9926.	6.6	249
4	Well-Defined Thiolated Nanographene as Hole-Transporting Material for Efficient and Stable Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 10914-10917.	6.6	229
5	High-Efficiency, Hysteresis-Less, UV-Stable Perovskite Solar Cells with Cascade ZnO/ZnS Electron Transport Layer. <i>Journal of the American Chemical Society</i> , 2019, 141, 541-547.	6.6	189
6	Thiols as interfacial modifiers to enhance the performance and stability of perovskite solar cells. <i>Nanoscale</i> , 2015, 7, 9443-9447.	2.8	179
7	Monoammonium Porphyrin for Blade-Coating Stable Large-Area Perovskite Solar Cells with >18% Efficiency. <i>Journal of the American Chemical Society</i> , 2019, 141, 6345-6351.	6.6	149
8	Plant Sunscreen and Co(II)/(III) Porphyrins for UV-Resistant and Thermally Stable Perovskite Solar Cells: From Natural to Artificial. <i>Advanced Materials</i> , 2018, 30, e1800568.	11.1	114
9	Terbium Functionalized Micelle Nanoprobe for Ratiometric Fluorescence Detection of Anthrax Spore Biomarker. <i>Analytical Chemistry</i> , 2018, 90, 3600-3607.	3.2	110
10	Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopant-Free Hole Transporting Material for Stable Perovskite Solar Cells with >21% Efficiency. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6294-6299.	7.2	101
11	Efficient Grain Boundary Suture by Low-Cost Tetra-ammonium Zinc Phthalocyanine for Stable Perovskite Solar Cells with Expanded Photoresponse. <i>Journal of the American Chemical Society</i> , 2018, 140, 11577-11580.	6.6	95
12	Improved stability of perovskite solar cells in ambient air by controlling the mesoporous layer. <i>Journal of Materials Chemistry A</i> , 2015, 3, 16860-16866.	5.2	92
13	MOF-Derived Hollow CoS Decorated with CeO _x Nanoparticles for Boosting Oxygen Evolution Reaction Electrocatalysis. <i>Angewandte Chemie</i> , 2018, 130, 8790-8794.	1.6	84
14	Grain Boundary Engineering with Self-Assembled Porphyrin Supramolecules for Highly Efficient Large-Area Perovskite Photovoltaics. <i>Journal of the American Chemical Society</i> , 2021, 143, 18989-18996.	6.6	83
15	Vapor-assisted crystallization control toward high performance perovskite photovoltaics with over 18% efficiency in the ambient atmosphere. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13203-13210.	5.2	77
16	Perfection of Perovskite Grain Boundary Passivation by Eu-Porphyrin Complex for Overall Stable Perovskite Solar Cells. <i>Advanced Science</i> , 2019, 6, 1802040.	5.6	65
17	Composition-Engineered Metal-Organic Framework-Based Microneedles for Glucose-Mediated Transdermal Insulin Delivery. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13613-13621.	4.0	61
18	Stringing MOF-derived nanocages: a strategy for the enhanced oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8284-8291.	5.2	53

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19	Lead and Iodide Fixation by Thiol Copper(II) Porphyrin for Stable and Environmental-Friendly Perovskite Solar Cells. <i>CCS Chemistry</i> , 2021, 3, 25-36.	4.6	51
20	Cerium-Oxide-Modified Anodes for Efficient and UV-Stable ZnO-Based Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13273-13278.	4.0	50
21	Highly Stable Perovskite Quantum Dots Modified by Europium Complex for Dual-Responsive Optical Encoding. <i>ACS Nano</i> , 2021, 15, 6266-6275.	7.3	44
22	Improving Efficiency and Stability of Perovskite Solar Cells by Modifying Mesoporous TiO ₂ Perovskite Interfaces with Both Aminocaproic and Caproic acids. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700897.	1.9	41
23	Encapsulation and Regeneration of Perovskite Film by in Situ Forming Cobalt Porphyrin Polymer for Efficient Photovoltaics. <i>CCS Chemistry</i> , 2020, 2, 488-494.	4.6	41
24	Solution-Processed Cu(In, Ga)(S, Se) ₂ Nanocrystal as Inorganic Hole-Transporting Material for Efficient and Stable Perovskite Solar Cells. <i>Nanoscale Research Letters</i> , 2017, 12, 159.	3.1	38
25	A Smart Photosensitizerâ€“Cerium Oxide Nanoprobe for Highly Selective and Efficient Photodynamic Therapy. <i>Inorganic Chemistry</i> , 2019, 58, 7295-7302.	1.9	36
26	Smart All-in-One Thermometer-Heater Nanoprobe Based on Postsynthetic Functionalization of a Eu(III)-Metalâ€“Organic Framework. <i>Analytical Chemistry</i> , 2019, 91, 5225-5234.	3.2	36
27	Copper-copper iodide hybrid nanostructure as hole transport material for efficient and stable inverted perovskite solar cells. <i>Science China Chemistry</i> , 2019, 62, 363-369.	4.2	36
28	Ambient Pressure X-ray Photoelectron Spectroscopy Investigation of Thermally Stable Halide Perovskite Solar Cells via Post-Treatment. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 43705-43713.	4.0	34
29	Diammonium Porphyrin-Induced CsPbBr ₃ Nanocrystals to Stabilize Perovskite Films for Efficient and Stable Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16236-16242.	4.0	31
30	Existence of Ligands within Solâ€“Gel-Derived ZnO Films and Their Effect on Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43116-43121.	4.0	28
31	Acyldiazone-based porphyrin derivative as hole transport material for efficient and thermally stable perovskite solar cells. <i>Dyes and Pigments</i> , 2019, 160, 957-961.	2.0	27
32	Eu ²⁺ /Eu ³⁺ -Based Smart Duplicate Responsive Stimuli and Time-gated Nanohybrid for Optical Recording and Encryption. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1247-1253.	4.0	27
33	<i>N</i> -Methyl-2-pyrrolidone as an excellent coordinative additive with a wide operating range for fabricating high-quality perovskite films. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2458-2463.	3.0	26
34	Light absorption enhancement by embedding submicron scattering TiO ₂ nanoparticles in perovskite solar cells. <i>RSC Advances</i> , 2016, 6, 24596-24602.	1.7	25
35	Perovskite surface management by thiol and amine copper porphyrin for stable and clean solar cells. <i>Chemical Engineering Journal</i> , 2021, 409, 128167.	6.6	25
36	Trace surface-clean palladium nanosheets as a conductivity enhancer in hole-transporting layers to improve the overall performances of perovskite solar cells. <i>Nanoscale</i> , 2016, 8, 3274-3277.	2.8	24

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37	Lead-Doped Titanium-Oxo Clusters as Molecular Models of Perovskite-Type PbTiO_3 and Electron-Transport Material in Solar Cells. <i>Chemistry - A European Journal</i> , 2020, 26, 6894-6898.	1.7	24
38	A TAT peptide-based ratiometric two-photon fluorescent probe for detecting biothiols and sequentially distinguishing GSH in mitochondria. <i>Talanta</i> , 2020, 218, 121127.	2.9	22
39	A reaction-and-assembly approach using monoamine zinc porphyrin for highly stable large-area perovskite solar cells. <i>Science China Chemistry</i> , 2020, 63, 777-784.	4.2	19
40	Homogeneously Large Polarons in Aromatic Passivators Improves Charge Transport between Perovskite Grains for $>24\%$ Efficiency in Photovoltaics. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	19
41	A smart nanoprobe based on a gadolinium complex encapsulated by ZIF-8 with enhanced room temperature phosphorescence for synchronous oxygen sensing and photodynamic therapy. <i>Dalton Transactions</i> , 2019, 48, 16952-16960.	1.6	16
42	Tetraammonium Zinc Phthalocyanine to Construct a Graded 2D-3D Perovskite Interface for Efficient and Stable Solar Cells. <i>Chinese Journal of Chemistry</i> , 2019, 37, 30-34.	2.6	16
43	Chemical encapsulation of perovskite film by tetra-thiol copper(II) porphyrin for stable and clean photovoltaics. <i>Organic Electronics</i> , 2021, 93, 106158.	1.4	15
44	Lead fixation by spider web-like porphyrin polymer for stable and clean perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022, 429, 132405.	6.6	15
45	Surface ligand coordination induced self-assembly of a nanohybrid for efficient photodynamic therapy and imaging. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2620-2629.	3.0	14
46	$\text{Eu}^{3+}/\text{Tb}^{3+}$ supramolecular assembly hybrids for ultrasensitive and ratiometric detection of anthrax spore biomarker in water solution and actual spore samples. <i>Talanta</i> , 2021, 225, 122063.	2.9	14
47	Smart nanoprobe based on two-photon sensitized terbium-carbon dots for dual-mode fluorescence thermometer and antibacterial. <i>Chinese Chemical Letters</i> , 2020, 31, 1792-1796.	4.8	13
48	4-Tert-butylpyridine-assisted low-cost and soluble copper phthalocyanine as dopant-free hole transport layer for efficient Pb- and Sn-based perovskite solar cells. <i>Science China Chemistry</i> , 2020, 63, 1053-1058.	4.2	13
49	Multiplex recognition and logic devices for molecular robot prototype based on an europium(III)-cyclen system. <i>Biosensors and Bioelectronics</i> , 2018, 122, 1-7.	5.3	11
50	Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopant-Free Hole Transporting Material for Stable Perovskite Solar Cells with $>21\%$ Efficiency. <i>Angewandte Chemie</i> , 2021, 133, 6364-6369.	1.6	11
51	A smart tumor-microenvironment responsive nanoprobe for highly selective and efficient combination therapy. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3562-3568.	3.0	8
52	Porphyrin/phthalocyanine metal complexes as modifiers for efficient perovskite solar cells. <i>Science Bulletin</i> , 2020, 65, 1688-1690.	4.3	8
53	Activatable smart nanoprobe for sensitive endogenous MMP2 detection and fluorescence imaging-guided phototherapies. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 820-828.	3.0	5
54	Smart MMP2-Responsive Nanoprobe for Activatable Fluorescence Imaging-Guided Local Triple-Combination Therapies with Single Light. <i>ACS Applied Bio Materials</i> , 2019, 2, 2978-2987.	2.3	4

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55	Self-Assembly of Heterogeneous Structured Rare-Earth Nanocrystals Controlled by Selective Crystal Etching and Growth for Optical Encoding. ACS Applied Nano Materials, 2019, 2, 3518-3525.	2.4	3
56	A novel drug-drug nanohybrid for the self-delivery of porphyrin and <i>cis</i> -platinum. RSC Advances, 2019, 9, 37003-37008.	1.7	3
57	Dual-Functional Eu ^{2+/3+} -Complex@ZIF-67 Nanocatalyst Derived from a Green Reduction of Eu ³⁺ Compound. Inorganic Chemistry, 2020, 59, 13888-13897.	1.9	3
58	Perovskite modifiers with porphyrin/phthalocyanine complexes for efficient photovoltaics. Journal of Coordination Chemistry, 2022, 75, 1494-1519.	0.8	2
59	Frontispiece: Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopant-Free Hole Transporting Material for Stable Perovskite Solar Cells with >21% Efficiency. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
60	Frontispiz: Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopant-Free Hole Transporting Material for Stable Perovskite Solar Cells with >21% Efficiency. Angewandte Chemie, 2021, 133, .	1.6	0
61	Future directions of material chemistry and energy chemistry. Pure and Applied Chemistry, 2021, 93, 1435-1451.	0.9	0
62	Homogeneously Large Polarons in Aromatic Passivators Improves Charge Transport Between Perovskite Grains for >24% Efficiency in Photovoltaics. Angewandte Chemie, 0, , .	1.6	0