Jing Cao

List of Publications by Year
in descending order

62 papers	3,540 citations	186265 28 h-index	138484 58 g-index
63 all docs	63 docs citations	63 times ranked	5137 citing authors

#	Article	IF	Citations
1	Lead fixation by spider web-like porphyrin polymer for stable and clean perovskite solar cells. Chemical Engineering Journal, 2022, 429, 132405.	12.7	15
2	Homogeneously Large Polarons in Aromatic Passivators Improves Charge Transport between Perovskite Grains for >24â€‰% Efficiency in Photovoltaics. Angewandte Chemie - International Edition, 2022, 61, .	13.8	19
3	Perovskite modifiers with porphyrin/phthalocyanine complexes for efficient photovoltaics. Journal of Coordination Chemistry, 2022, 75, 1494-1519.	2.2	2
4	Perovskite surface management by thiol and amine copper porphyrin for stable and clean solar cells. Chemical Engineering Journal, 2021, 409, 128167.	12.7	25
5	Lead and Iodide Fixation by Thiol Copper(II) Porphyrin for Stable and Environmental-Friendly Perovskite Solar Cells. CCS Chemistry, 2021, 3, 25-36.	7.8	51
6	Highly Stable Perovskite Quantum Dots Modified by Europium Complex for Dual-Responsive Optical Encoding. ACS Nano, 2021, 15, 6266-6275.	14.6	44
7	Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopantâ€Free Hole Transporting Material for Stable Perovskite Solar Cells with >21â€‰% Efficiency. Angewandte Chemie, 2021, 133, 6364-6369.	2.0	11
8	Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopantâ€Free Hole Transporting Material for Stable Perovskite Solar Cells with >21â€‰% Efficiency. Angewandte Chemie - International Edition, 2021, 60, 6294-6299.	13.8	101
9	Frontispiece: Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopantâ€Free Hole Transporting Material for Stable Perovskite Solar Cells with >21â€‰% Efficiency. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
10	Frontispiz: Intramolecular Electric Field Construction in Metal Phthalocyanine as Dopantâ€Free Hole Transporting Material for Stable Perovskite Solar Cells with >21â€‰% Efficiency. Angewandte Chemie, 2021, 133, .	2.0	0
11	Eu3+/Tb3+ supramolecular assembly hybrids for ultrasensitive and ratiometric detection of anthrax spore biomarker in water solution and actual spore samples. Talanta, 2021, 225, 122063.	5.5	14
12	Chemical encapsulation of perovskite film by tetra-thiol copper(II) porphyrin for stable and clean photovoltaics. Organic Electronics, 2021, 93, 106158.	2.6	15
13	Future directions of material chemistry and energy chemistry. Pure and Applied Chemistry, 2021, 93, 1435-1451.	1.9	0
14	Grain Boundary Engineering with Self-Assembled Porphyrin Supramolecules for Highly Efficient Large-Area Perovskite Photovoltaics. Journal of the American Chemical Society, 2021, 143, 18989-18996.	13.7	83
15	Smart nanoprobe based on two-photon sensitized terbium-carbon dots for dual-mode fluorescence thermometer and antibacterial. Chinese Chemical Letters, 2020, 31, 1792-1796.	9.0	13
16	Ambient Pressure X-ray Photoelectron Spectroscopy Investigation of Thermally Stable Halide Perovskite Solar Cells via Post-Treatment. ACS Applied Materials & Interfaces, 2020, 12, 43705-43713.	8.0	34
17	Dual-Functional Eu^{2+/3+}-Complex@ZIF-67 Nanocatalyst Derived from a Green Reduction of Eu³⁺ Compound. Inorganic Chemistry, 2020, 59, 13888-13897.	4.0	3
18	A TAT peptide-based ratiometric two-photon fluorescent probe for detecting biothiols and sequentially distinguishing GSH in mitochondria. Talanta, 2020, 218, 121127.	5.5	22

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19	Porphyrin/phthalocyanine meatal complexes as modifiers for efficient perovskite solar cells. Science Bulletin, 2020, 65, 1688-1690.	9.0	8
20	Diammonium Porphyrin-Induced CsPbBr3 Nanocrystals to Stabilize Perovskite Films for Efficient and Stable Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 16236-16242.	8.0	31
21	Composition-Engineered Metalâ€“Organic Framework-Based Microneedles for Glucose-Mediated Transdermal Insulin Delivery. ACS Applied Materials & Interfaces, 2020, 12, 13613-13621.	8.0	61
22	Leadâ€Doped Titaniumâ€Oxo Clusters as Molecular Models of Perovskiteâ€Type PbTiO₃ and Electronâ€Transport Material in Solar Cells. Chemistry - A European Journal, 2020, 26, 6894-6898.	3.3	24
23	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. Science China Chemistry, 2020, 63, 1053-1058.	8.2	13
24	A reaction-and-assembly approach using monoamine zinc porphyrin for highly stable large-area perovskite solar cells. Science China Chemistry, 2020, 63, 777-784.	8.2	19
25	Encapsulation and Regeneration of Perovskite Film by in Situ Forming Cobalt Porphyrin Polymer for Efficient Photovoltaics. CCS Chemistry, 2020, 2, 488-494.	7.8	41
26	<i>N</i>-Methyl-2-pyrrolidone as an excellent coordinative additive with a wide operating range for fabricating high-quality perovskite films. Inorganic Chemistry Frontiers, 2019, 6, 2458-2463.	6.0	26
27	Smart MMP2-Responsive Nanoprobe for Activatable Fluorescence Imaging-Guided Local Triple-Combination Therapies with Single Light. ACS Applied Bio Materials, 2019, 2, 2978-2987.	4.6	4
28	Existence of Ligands within Solâ€“Gel-Derived ZnO Films and Their Effect on Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 43116-43121.	8.0	28
29	Perfection of Perovskite Grain Boundary Passivation by Euâ€Porphyrin Complex for Overallâ€Stable Perovskite Solar Cells. Advanced Science, 2019, 6, 1802040.	11.2	65
30	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.	5.0	3
31	A Smart Photosensitizerâ€“Cerium Oxide Nanoprobe for Highly Selective and Efficient Photodynamic Therapy. Inorganic Chemistry, 2019, 58, 7295-7302.	4.0	36
32	Smart All-in-One Thermometer-Heater Nanoprobe Based on Postsynthetical Functionalization of a Eu(III)-Metalâ€“Organic Framework. Analytical Chemistry, 2019, 91, 5225-5234.	6.5	36
33	Cerium-Oxide-Modified Anodes for Efficient and UV-Stable ZnO-Based Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 13273-13278.	8.0	50
34	Stringing MOF-derived nanocages: a strategy for the enhanced oxygen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 8284-8291.	10.3	53
35	Monoammonium Porphyrin for Blade-Coating Stable Large-Area Perovskite Solar Cells with >18% Efficiency. Journal of the American Chemical Society, 2019, 141, 6345-6351.	13.7	149
36	Activatable smart nanoprobe for sensitive endogenous MMP2 detection and fluorescence imaging-guided phototherapies. Inorganic Chemistry Frontiers, 2019, 6, 820-828.	6.0	5

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37	A smart nanoprobe based on a gadolinium complex encapsulated by ZIF-8 with enhanced room temperature phosphorescence for synchronous oxygen sensing and photodynamic therapy. Dalton Transactions, 2019, 48, 16952-16960.	3.3	16
38	A smart tumor-microenvironment responsive nanoprobe for highly selective and efficient combination therapy. Inorganic Chemistry Frontiers, 2019, 6, 3562-3568.	6.0	8
39	A novel drugâ€“drug nanohybrid for the self-delivery of porphyrin and <i>cis</i>-platinum. RSC Advances, 2019, 9, 37003-37008.	3.6	3
40	Acylhydrazone-based porphyrin derivative as hole transport material for efficient and thermally stable perovskite solar cells. Dyes and Pigments, 2019, 160, 957-961.	3.7	27
41	Tetraâ€ammonium Zinc Phthalocyanine to Construct a Graded 2Dâ€“3D Perovskite Interface for Efficient and Stable Solar Cells. Chinese Journal of Chemistry, 2019, 37, 30-34.	4.9	16
42	Copper-copper iodide hybrid nanostructure as hole transport material for efficient and stable inverted perovskite solar cells. Science China Chemistry, 2019, 62, 363-369.	8.2	36
43	High-Efficiency, Hysteresis-Less, UV-Stable Perovskite Solar Cells with Cascade ZnOâ€“ZnS Electron Transport Layer. Journal of the American Chemical Society, 2019, 141, 541-547.	13.7	189
44	Eu²⁺/Eu³⁺-Based Smart Duplicate Responsive Stimuli and Time-gated Nanohybrid for Optical Recording and Encryption. ACS Applied Materials & Interfaces, 2019, 11, 1247-1253.	8.0	27
45	Terbium Functionalized Micelle Nanoprobe for Ratiometric Fluorescence Detection of Anthrax Spore Biomarker. Analytical Chemistry, 2018, 90, 3600-3607.	6.5	110
46	Efficient, Hysteresisâ€Free, and Stable Perovskite Solar Cells with ZnO as Electronâ€Transport Layer: Effect of Surface Passivation. Advanced Materials, 2018, 30, 1705596.	21.0	363
47	MOFâ€Derived Hollow CoS Decorated with CeO_{<i>x</i>} Nanoparticles for Boosting Oxygen Evolution Reaction Electrocatalysis. Angewandte Chemie - International Edition, 2018, 57, 8654-8658.	13.8	369
48	Surface ligand coordination induced self-assembly of a nanohybrid for efficient photodynamic therapy and imaging. Inorganic Chemistry Frontiers, 2018, 5, 2620-2629.	6.0	14
49	Multiplex recognition and logic devices for molecular robot prototype based on an europium(iii)â€“cyclen system. Biosensors and Bioelectronics, 2018, 122, 1-7.	10.1	11
50	Plant Sunscreen and Co(II)/(III) Porphyrins for UVâ€Resistant and Thermally Stable Perovskite Solar Cells: From Natural to Artificial. Advanced Materials, 2018, 30, e1800568.	21.0	114
51	MOFâ€Derived Hollow CoS Decorated with CeO_{<i>x</i>} Nanoparticles for Boosting Oxygen Evolution Reaction Electrocatalysis. Angewandte Chemie, 2018, 130, 8790-8794.	2.0	84
52	Efficient Grain Boundary Suture by Low-Cost Tetra-ammonium Zinc Phthalocyanine for Stable Perovskite Solar Cells with Expanded Photoresponse. Journal of the American Chemical Society, 2018, 140, 11577-11580.	13.7	95
53	Solution-Processed Cu(In, Ga)(S, Se)2 Nanocrystal as Inorganic Hole-Transporting Material for Efficient and Stable Perovskite Solar Cells. Nanoscale Research Letters, 2017, 12, 159.	5.7	38
54	Improving Efficiency and Stability of Perovskite Solar Cells by Modifying Mesoporous TiO₂â€“Perovskite Interfaces with Both Aminocaproic and Caproic acids. Advanced Materials Interfaces, 2017, 4, 1700897.	3.7	41

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55	Vapor-assisted crystallization control toward high performance perovskite photovoltaics with over 18% efficiency in the ambient atmosphere. Journal of Materials Chemistry A, 2016, 4, 13203-13210.	10.3	77
56	Identifying the Molecular Structures of Intermediates for Optimizing the Fabrication of High-Quality Perovskite Films. Journal of the American Chemical Society, 2016, 138, 9919-9926.	13.7	249
57	Light absorption enhancement by embedding submicron scattering TiO₂nanoparticles in perovskite solar cells. RSC Advances, 2016, 6, 24596-24602.	3.6	25
58	Trace surface-clean palladium nanosheets as a conductivity enhancer in hole-transporting layers to improve the overall performances of perovskite solar cells. Nanoscale, 2016, 8, 3274-3277.	5.6	24
59	Improved stability of perovskite solar cells in ambient air by controlling the mesoporous layer. Journal of Materials Chemistry A, 2015, 3, 16860-16866.	10.3	92
60	Thiols as interfacial modifiers to enhance the performance and stability of perovskite solar cells. Nanoscale, 2015, 7, 9443-9447.	5.6	179
61	Well-Defined Thiolated Nanographene as Hole-Transporting Material for Efficient and Stable Perovskite Solar Cells. Journal of the American Chemical Society, 2015, 137, 10914-10917.	13.7	229
62	Homogeneously Large Polarons in Aromatic Passivators Improves Charge Transport Between Perovskite Grains for >24% Efficiency in Photovoltaics. Angewandte Chemie, 0, , .	2.0	0