Yihui Wu

List of Publications by Year
in descending order

39 papers	2,083 citations	257101 24 h-index	315357 38 g-index
42 all docs	42 docs citations	42 times ranked	3422 citing authors

#	Article	IF	Citations
1	A Graphene Composite Material with Single Cobalt Active Sites: A Highly Efficient Counter Electrode for Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2016, 55, 6708-6712.	7.2	236
2	Well-defined BiOCl colloidal ultrathin nanosheets: synthesis, characterization, and application in photocatalytic aerobic oxidation of secondary amines. Chemical Science, 2015, 6, 1873-1878.	3.7	196
3	Design of an Inorganic Mesoporous Holeâ€Transporting Layer for Highly Efficient and Stable Inverted Perovskite Solar Cells. Advanced Materials, 2018, 30, e1805660.	11.1	179
4	Solutionâ€Processable Perovskite Solar Cells toward Commercialization: Progress and Challenges. Advanced Functional Materials, 2019, 29, 1807661.	7.8	149
5	Enhanced adsorption desulfurization performance over hierarchically structured zeolite Y. Fuel Processing Technology, 2014, 128, 176-182.	3.7	104
6	Thermally stable methylammonium-free inverted perovskite solar cells with Zn2+ doped CuGaO2 as efficient mesoporous hole-transporting layer. Nano Energy, 2019, 61, 148-157.	8.2	90
7	Defect mitigation using <scp>d</scp>-penicillamine for efficient methylammonium-free perovskite solar cells with high operational stability. Chemical Science, 2021, 12, 2050-2059.	3.7	88
8	Enhanced catalytic isomerization of Î±-pinene over mesoporous zeolite beta of low Si/Al ratio by NaOH treatment. Microporous and Mesoporous Materials, 2012, 162, 168-174.	2.2	76
9	Highâ€Efficiency Perovskite Solar Cells Enabled by Anatase TiO₂ Nanopyramid Arrays with an Oriented Electric Field. Angewandte Chemie - International Edition, 2020, 59, 11969-11976.	7.2	76
10	Long-term stability of organicâ€“inorganic hybrid perovskite solar cells with high efficiency under high humidity conditions. Journal of Materials Chemistry A, 2017, 5, 1374-1379.	5.2	75
11	Effect of Si/Al ratio on mesopore formation for zeolite beta via NaOH treatment and the catalytic performance in Î±-pinene isomerization and benzoylation of naphthalene. Microporous and Mesoporous Materials, 2013, 173, 129-138.	2.2	67
12	Annealing-free perovskite films based on solvent engineering for efficient solar cells. Journal of Materials Chemistry C, 2017, 5, 842-847.	2.7	63
13	Nitrogen-doped carbon nanotubes with metal nanoparticles as counter electrode materials for dye-sensitized solar cells. Chemical Communications, 2015, 51, 8146-8149.	2.2	61
14	Heterojunction Engineering for High Efficiency Cesium Formamidinium Doubleâ€Cation Lead Halide Perovskite Solar Cells. ChemSusChem, 2018, 11, 837-842.	3.6	61
15	CuFeS₂ colloidal nanocrystals as an efficient electrocatalyst for dye sensitized solar cells. Chemical Communications, 2016, 52, 11488-11491.	2.2	45
16	Crystallization tailoring of cesium/formamidinium double-cation perovskite for efficient and highly stable solar cells. Journal of Energy Chemistry, 2020, 48, 217-225.	7.1	45
17	Nanocrystals of halide perovskite: Synthesis, properties, and applications. Journal of Energy Chemistry, 2018, 27, 622-636.	7.1	43
18	Facile Fabrication of SnO₂ Nanorod Arrays Films as Electron Transporting Layer for Perovskite Solar Cells. Solar Rrl, 2018, 2, 1800133.	3.1	41

#	Article	IF	Citations
19	Interfacial Contact Passivation for Efficient and Stable Cesium-Formamidinium Double-Cation Lead Halide Perovskite Solar Cells. IScience, 2020, 23, 100762.	1.9	37
20	A Graphene Composite Material with Single Cobalt Active Sites: A Highly Efficient Counter Electrode for Dyeâ€Sensitized Solar Cells. Angewandte Chemie, 2016, 128, 6820-6824.	1.6	35
21	Monodisperse AgSbS₂ Nanocrystals: Sizeâ€Control Strategy, Largeâ€Scale Synthesis, and Photoelectrochemistry. Chemistry - A European Journal, 2015, 21, 11143-11151.	1.7	31
22	Acetone-assisted precursor engineering enables low-temperature fabrication of CsPbI2Br perovskite for efficient solar cells. Journal of Power Sources, 2021, 482, 228965.	4.0	31
23	High performance perovskite solar cells using TiO2 nanospindles as ultrathin mesoporous layer. Journal of Energy Chemistry, 2018, 27, 951-956.	7.1	29
24	Air-stable layered bismuth-based perovskite-like materials: Structures and semiconductor properties. Physica B: Condensed Matter, 2017, 526, 136-142.	1.3	26
25	Colloidal CsCu5S3 nanocrystals as an interlayer in high-performance perovskite solar cells with an efficiency of 22.29%. Chemical Engineering Journal, 2021, 406, 126855.	6.6	25
26	Isomerization of Î±-Pinene over Immobilized AlCl3 Catalysts. Chinese Journal of Catalysis, 2011, 32, 1138-1142.	6.9	24
27	Shape and composition control of Bi₁₉S₂₇(Br_{3â^'x},I_x) alloyed nanowires: the role of metal ions. Chemical Science, 2015, 6, 4615-4622.	3.7	24
28	Multilayer Cascade Charge Transport Layer for Highâ€Performance Inverted Mesoscopic Allâ€Inorganic and Hybrid Wideâ€Bandgap Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000344.	3.1	23
29	Synthesis, Characterization, and Photodetector Application of Alkali Metal Bismuth Chalcogenide Nanocrystals. ACS Applied Energy Materials, 2019, 2, 182-186.	2.5	21
30	Bismuth-based ternary nanowires as efficient electrocatalysts for dye sensitized solar cells. Chemical Communications, 2017, 53, 5445-5448.	2.2	20
31	Reducing carrier transport barrier in anode interface enables efficient and stable inverted mesoscopic methylammonium-free perovskite solar cells. Chemical Engineering Journal, 2021, 425, 131499.	6.6	17
32	Highâ€Efficiency Perovskite Solar Cells Enabled by Anatase TiO₂ Nanopyramid Arrays with an Oriented Electric Field. Angewandte Chemie, 2020, 132, 12067-12074.	1.6	15
33	Composition-tunable Cu2(Ge1â^'x,Snx)(S3â^'y,Sey) colloidal nanocrystals: synthesis and characterization. Chemical Communications, 2014, 50, 12738-12741.	2.2	10
34	Enhancing photoresponsivity of self-powered UV photodetectors based on electrochemically reduced TiO₂ nanorods. RSC Advances, 2015, 5, 95939-95942.	1.7	7
35	Surface polarity engineering of ZnO layer for improved photoluminescence of CsPbBr3 quantum dot films. Chemical Physics Letters, 2020, 750, 137454.	1.2	5
36	Efficient post-treatment of CsPbBr3 film with enhanced photovoltaic performance. Journal of Alloys and Compounds, 2021, 872, 159601.	2.8	3

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37	Heterojunction Engineering for High Efficiency Cesium Formamidinium Doubleâ€Cation Lead Halide Perovskite Solar Cells. ChemSusChem, 2018, 11, 808-808.	3.6	2
38	Controllable synthesis of silicon nano-particles using a one-step PECVD-ionic liquid strategy. Journal of Materials Chemistry A, 2015, 3, 10233-10237.	5.2	0
39	InnenrÃ¼cktitelbild: A Graphene Composite Material with Single Cobalt Active Sites: A Highly Efficient Counter Electrode for Dyeâ€Sensitized Solar Cells (Angew. Chem. 23/2016). Angewandte Chemie, 2016, 128, 6905-6905.	1.6	0