

Binghui Wu

List of Publications by Year in descending order

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papers

7,764
citations

100601

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71
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docs citations

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times ranked

13332
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable Preparation of High-Performance ZnO/SnO ₂ Cascaded Electron Transport Layer for Efficient Perovskite Solar Modules. <i>Solar Rrl</i> , 2022, 6, 2100639.	3.1	13
2	Fire-resistant plant fiber sponge enabled by highly thermo-conductive hexagonal boron nitride ink. <i>Chemical Engineering Journal</i> , 2022, 429, 132135.	6.6	1
3	Intermediate Chemistry of Halide Perovskites: Origin, Evolution, and Application. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1765-1776.	2.1	23
4	Antioxidant high-conductivity copper paste for low-cost flexible printed electronics. <i>Npj Flexible Electronics</i> , 2022, 6, .	5.1	21
5	Design Strategies of Hole Transport Materials by Electronic and Steric Controls for n-i-p Perovskite Solar Cells. <i>ChemSusChem</i> , 2022, , .	3.6	5
6	Synergistic Effect between NiO _x and P3HT Enabling Efficient and Stable Hole Transport Pathways for Regular Perovskite Photovoltaics. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	17
7	Crown Ether-Assisted Growth and Scaling Up of FACsPbI ₃ Films for Efficient and Stable Perovskite Solar Modules. <i>Advanced Functional Materials</i> , 2021, 31, 2008760.	7.8	50
8	Hyperstable Perovskite Solar Cells Without Ion Migration and Metal Diffusion Based on ZnS Segregated Cubic ZnTiO ₃ Electron Transport Layers. <i>Solar Rrl</i> , 2021, 5, 2000654.	3.1	13
9	An Organic-Inorganic Hybrid Electrolyte as a Cathode Interlayer for Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8526-8531.	7.2	54
10	An Organic-Inorganic Hybrid Electrolyte as a Cathode Interlayer for Efficient Organic Solar Cells. <i>Angewandte Chemie</i> , 2021, 133, 8607-8612.	1.6	16
11	Perovskite Quantum Dots as Multifunctional Interlayers in Perovskite Solar Cells with Dopant-Free Organic Hole Transporting Layers. <i>Journal of the American Chemical Society</i> , 2021, 143, 5855-5866.	6.6	59
12	Sulfonate-Assisted Surface Iodide Management for High-Performance Perovskite Solar Cells and Modules. <i>Journal of the American Chemical Society</i> , 2021, 143, 10624-10632.	6.6	101
13	Hexagonal Nickel as a Highly Durable and Active Catalyst for Hydrogen Evolution. <i>ACS Catalysis</i> , 2021, 11, 8798-8806.	5.5	12
14	Mo-Decorated Ni ₃ N Nanostructures for Alkaline Polymer Electrolyte Fuel Cells. <i>ACS Applied Nano Materials</i> , 2021, 4, 11473-11479.	2.4	9
15	Interface Engineering of Cubic Zinc Metatitanate as an Excellent Electron Transport Material for Stable Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900533.	3.1	12
16	Surface coordination layer passivates oxidation of copper. <i>Nature</i> , 2020, 586, 390-394.	13.7	154
17	Highly Anisotropic Corncob as an Efficient Solar Steam-Generation Device with Heat Localization and Rapid Water Transportation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50397-50405.	4.0	51
18	Sensitive piezoresistive sensors using ink-modified plant fiber sponges. <i>Chemical Engineering Journal</i> , 2020, 401, 126029.	6.6	22

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19	Constructing hydrophobic interfaces in aluminophosphate adhesives with reduced graphene oxide to improve the performance of wood-based boards. <i>Composites Part B: Engineering</i> , 2020, 198, 108168.	5.9	12
20	Methylamine-Dimer-Induced Phase Transition toward MAPbI ₃ Films and High-Efficiency Perovskite Solar Modules. <i>Journal of the American Chemical Society</i> , 2020, 142, 6149-6157.	6.6	59
21	Moisture-tolerant and high-quality $\text{CH}_3\text{NH}_3\text{PbI}_3$ films for efficient and stable perovskite solar modules. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9597-9606.	5.2	62
22	Protecting the Nanoscale Properties of Ag Nanowires with a Solution-Grown SnO ₂ Monolayer as Corrosion Inhibitor. <i>Journal of the American Chemical Society</i> , 2019, 141, 13977-13986.	6.6	45
23	Ultrasensitive label-free detection of circulating tumor cells using conductivity matching of two-dimensional semiconductor with cancer cell. <i>Biosensors and Bioelectronics</i> , 2019, 142, 111520.	5.3	30
24	N-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
25	Existence of Ligands within Sol-Gel-Derived ZnO Films and Their Effect on Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43116-43121.	4.0	28
26	Intimate Interfacial Interaction between Amino-Modified Ti ₅ Clusters and BiVO ₄ towards Efficient Photoelectrochemical Water Splitting. <i>ChemNanoMat</i> , 2019, 5, 1110-1114.	1.5	6
27	Br-containing alkyl ammonium salt-enabled scalable fabrication of high-quality perovskite films for efficient and stable perovskite modules. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26849-26857.	5.2	40
28	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
29	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
30	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
31	Hierarchical Lamellar Aluminophosphate Materials with Porosity as Ecofriendly Inorganic Adhesive for Wood-Based Boards. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6273-6280.	3.2	35
32	Thiol Treatment Creates Selective Palladium Catalysts for Semihydrogenation of Internal Alkynes. <i>Chem</i> , 2018, 4, 1080-1091.	5.8	145
33	Electrochemical Reduction of Carbon Dioxide to Methanol on Hierarchical Pd/SnO ₂ Nanosheets with Abundant Pd-O-Sn Interfaces. <i>Angewandte Chemie</i> , 2018, 130, 9619-9623.	1.6	24
34	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
35	Electrochemical Reduction of Carbon Dioxide to Methanol on Hierarchical Pd/SnO ₂ Nanosheets with Abundant Pd-O-Sn Interfaces. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9475-9479.	7.2	218
36	Microwave-Assisted Synthesis of Ultrastable Cu@TiO ₂ Core-Shell Nanowires with Tunable Diameters via a Redox-Hydrolysis Synergetic Process. <i>ChemNanoMat</i> , 2018, 4, 914-918.	1.5	8

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37	A cake making strategy to prepare reduced graphene oxide wrapped plant fiber sponges for high-efficiency solar steam generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14571-14576.	5.2	84
38	Biological responses to core–shell-structured Fe₃O₄@SiO₂-NH₂ nanoparticles in rats by a nuclear magnetic resonance-based metabonomic strategy. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 2447-2462.	3.3	7
39	Double⋘ayered Plasmonic&Magnetic Vesicles by Self&Assembly of Janus Amphiphilic Gold&Iron(II,III) Oxide Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8110-8114.	7.2	107
40	Double⋘ayered Plasmonic&Magnetic Vesicles by Self&Assembly of Janus Amphiphilic Gold&Iron(II,III) Oxide Nanoparticles. <i>Angewandte Chemie</i> , 2017, 129, 8222-8226.	1.6	25
41	Carbon nitride supported AgPd alloy nanocatalysts for dehydrogenation of formic acid under visible light. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6382-6387.	5.2	52
42	Improving Efficiency and Stability of Perovskite Solar Cells by Modifying Mesoporous TiO₂&Perovskite Interfaces with Both Aminocaproic and Caproic acids. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700897.	1.9	41
43	Ultrastable atomic copper nanosheets for selective electrochemical reduction of carbon dioxide. <i>Science Advances</i> , 2017, 3, e1701069.	4.7	211
44	Air-promoted selective hydrogenation of phenol to cyclohexanone at low temperature over Pd-based nanocatalysts. <i>Science China Chemistry</i> , 2017, 60, 1444-1449.	4.2	11
45	Photochemical route for synthesizing atomically dispersed palladium catalysts. <i>Science</i> , 2016, 352, 797-800.	6.0	1,540
46	Plasmon&Mediated Photocatalytic Decomposition of Formic Acid on Palladium Nanostructures. <i>Advanced Optical Materials</i> , 2016, 4, 1041-1046.	3.6	32
47	Anisotropic Growth of TiO₂ onto Gold Nanorods for Plasmon-Enhanced Hydrogen Production from Water Reduction. <i>Journal of the American Chemical Society</i> , 2016, 138, 1114-1117.	6.6	422
48	Interfacial electronic effects control the reaction selectivity of platinum catalysts. <i>Nature Materials</i> , 2016, 15, 564-569.	13.3	548
49	Uniform Concave Polystyrene-Carbon Core&Shell Nanospheres by a Swelling Induced Buckling Process. <i>Journal of the American Chemical Society</i> , 2015, 137, 9772-9775.	6.6	53
50	A nanoparticulate polyacetylene-supported Pd(II) catalyst combining the advantages of homogeneous and heterogeneous catalysts. <i>Chinese Journal of Catalysis</i> , 2015, 36, 1560-1572.	6.9	8
51	Facile synthesis of size-tunable ZIF-8 nanocrystals using reverse micelles as nanoreactors. <i>Science China Chemistry</i> , 2014, 57, 141-146.	4.2	39
52	Amphiphilic modification and asymmetric silica encapsulation of hydrophobic Au&Fe₃O₄ dumbbell nanoparticles. <i>Chemical Communications</i> , 2014, 50, 174-176.	2.2	35
53	A hydride-induced-reduction strategy for fabricating palladium-based core&shell bimetallic nanocrystals. <i>Nanoscale</i> , 2014, 6, 6798.	2.8	22
54	Electrostatic Self-Assembling Formation of Pd Superlattice Nanowires from Surfactant-Free Ultrathin Pd Nanosheets. <i>Journal of the American Chemical Society</i> , 2014, 136, 12856-12859.	6.6	66

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55	Integrated approach to evaluating the toxicity of novel cysteine-capped silver nanoparticles to Escherichia coli and Pseudomonas aeruginosa. Analyst, The, 2014, 139, 954-963.	1.7	40
56	Solvent effect on the synthesis of monodisperse amine-capped Au nanoparticles. Chinese Chemical Letters, 2013, 24, 457-462.	4.8	55
57	Supported monodisperse Pt nanoparticles from [Pt ₃ (CO) ₃ (1/4-CO) ₃] ₅₂ clusters for investigating support-Pt interface effect in catalysis. Dalton Transactions, 2013, 42, 12699.	1.6	27
58	Crystal structure of a luminescent thiolated Ag nanocluster with an octahedral Ag ₆ ⁴⁺ core. Chemical Communications, 2013, 49, 300-302.	2.2	244
59	Surface and interface control of noble metal nanocrystals for catalytic and electrocatalytic applications. Nano Today, 2013, 8, 168-197.	6.2	431
60	Shape transformation from Pt nanocubes to tetrahexahedra with size near 10nm. Electrochemistry Communications, 2012, 22, 61-64.	2.3	44
61	A Multi-Shell Structured Nanocatalyst Containing Sub-10-nm Pd Nanoparticles in Porous CeO ₂ . ChemCatChem, 2012, 4, 1578-1586.	1.8	75
62	Carbon monoxide-controlled synthesis of surface-clean Pt nanocubes with high electrocatalytic activity. Chemical Communications, 2012, 48, 2758.	2.2	77
63	Selective Hydrogenation of Unsaturated Aldehydes Catalyzed by Amine-Capped Platinum-Cobalt Nanocrystals. Angewandte Chemie - International Edition, 2012, 51, 3440-3443.	7.2	277
64	Small Adsorbate-Assisted Shape Control of Pd and Pt Nanocrystals. Advanced Materials, 2012, 24, 862-879.	11.1	415
65	Carbon monoxide-assisted shape control of Pd and Pt nanocrystals. Scientia Sinica Chimica, 2012, 42, 1525.	0.2	1
66	Small molecules control the formation of Pt nanocrystals: a key role of carbon monoxide in the synthesis of Pt nanocubes. Chemical Communications, 2011, 47, 1039-1041.	2.2	150
67	General and Facile Syntheses of Metal Silicate Porous Hollow Nanostructures. Chemistry - an Asian Journal, 2010, 5, 1439-1444.	1.7	21
68	Interfacial activation of catalytically inert Au (6.7 nm)-Fe ₃ O ₄ dumbbell nanoparticles for CO oxidation. Nano Research, 2009, 2, 975-983.	5.8	66
69	Nonaqueous Production of Nanostructured Anatase with High-Energy Facets. Journal of the American Chemical Society, 2008, 130, 17563-17567.	6.6	389
70	Electrochemical Reduction of Nitrogen to Ammonia by Pd-Co Mo Nanosheets on Hydrophobic Hierarchical Graphene Support. ChemElectroChem, 0, , .	1.7	1
71	Low-Temperature Fabrication of Phase-Pure AB_2X_3 Films by Cation Exchange from Two-Dimensional Perovskites for Solar Cell Applications. Energy & Fuels, 0, , .	2.5	11