Bo Hou

List of Publications by Year
in descending order

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93 papers	3,328 citations	168829 31 h-index	182931 54 g-index
97 all docs	97 docs citations	97 times ranked	5346 citing authors

#	Article	IF	Citations
1	Designing and Tuning the Electronic Structure of Nickelâ€“Vanadium Layered Double Hydroxides for Highly Efficient Oxygen Evolution Electrocatalysis. ACS Catalysis, 2022, 12, 3821-3831.	5.5	58
2	In situ growth CNT@MOFs coreâ€”shell structures enabling high specific supercapacitances in neutral aqueous electrolyte. Nano Research, 2022, 15, 6112-6120.	5.8	12
3	Towards energy level cascaded â€œquantum armoursâ€•combating metal corrosion. Applied Surface Science, 2022, 593, 153369.	3.1	1
4	Silver thiocyanate treatment-induced enhancement of photoluminescence efficiency of CsPbBr3 perovskite quantum dots. Journal of the Korean Physical Society, 2022, 81, 150-157.	0.3	1
5	Grapheneâ€integrated <scp> CuCo ₂ S ₄ </scp> microspheres as a sustainable anode material for highâ€performance Liâ€ion batteries. International Journal of Energy Research, 2021, 45, 1613-1626.	2.2	17
6	Room Temperature Wafer-Scale Synthesis of Highly Transparent, Conductive CuS Nanosheet Films via a Simple Sulfur Adsorption-Corrosion Method. ACS Applied Materials & Interfaces, 2021, 13, 4244-4252.	4.0	19
7	A Ni or Co single atom anchored conjugated microporous polymer for high-performance photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2021, 9, 19894-19900.	5.2	34
8	Colloidal quantum dots and metal halide perovskite hybridization for solar cell stability and performance enhancement. Journal of Materials Chemistry A, 2021, 9, 15522-15541.	5.2	8
9	Full-spectrum thermal analysis in twisted bilayer graphene. Physical Chemistry Chemical Physics, 2021, 23, 19166-19172.	1.3	5
10	Indoor photovoltaics, The Next Big Trend in solutionâ€processed solar cells. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 445-459.	8.5	75
11	Thermodynamically and Physically Stable Dendrite-Free Li Interface with Layered Boron Nitride Separators. ACS Sustainable Chemistry and Engineering, 2021, 9, 4185-4193.	3.2	7
12	Synthetic Mechanism Studies of Iron Selenides: An Emerging Class of Materials for Electrocatalysis. Catalysts, 2021, 11, 681.	1.6	5
13	Balanced Charge Carrier Transport Mediated by Quantum Dot Film Post-organization for Light-Emitting Diode Applications. ACS Applied Materials & Interfaces, 2021, 13, 26170-26179.	4.0	8
14	High-Throughput Computations of Cross-Plane Thermal Conductivity in Multilayer Stanene. International Journal of Heat and Mass Transfer, 2021, 171, 121073.	2.5	10
15	Enhanced Direct White Light Emission Efficiency in Quantum Dot Lightâ€Emitting Diodes via Embedded Ferroelectric Islands Structure. Advanced Functional Materials, 2021, 31, 2104239.	7.8	18
16	The Effect of Cs/FA Ratio on the Longâ€Term Stability of Mixed Cation Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100660.	3.1	10
17	Molecular Dynamics and Machine Learning in Catalysts. Catalysts, 2021, 11, 1129.	1.6	15
18	Efficient photocathodic protection enabled by a multi-dimensional quaternary hybrid superstructure. Chemical Engineering Journal, 2021, 421, 127858.	6.6	18

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19	Secondary particle size determining sedimentation and adsorption kinetics of titanate-based materials for ammonia nitrogen and methylene blue removal. Journal of Molecular Liquids, 2021, 343, 117026.	2.3	11
20	Colour-encoded electroluminescent white light-emitting diodes enabled using perovskiteâ€“Cuâ€“Inâ€“S quantum composites. Journal of Materials Chemistry C, 2021, 9, 7027-7034.	2.7	13
21	Ferroelectric Field Effect Induced Charge Carrier Transport Modulation at Quantum Dot Solar Cell Heterojunction Interface. ACS Applied Energy Materials, 2021, 4, 12056-12062.	2.5	7
22	Interface-Engineered Paclitaxel-Based Hollow Mesoporous Organosilica Nanoplatforms for Photothermal-Enhanced Chemotherapy of Tumor. Molecular Pharmaceutics, 2021, 18, 4531-4542.	2.3	2
23	Experimental and Theoretical Insights into the Borohydride-Based Reduction-Induced Metal Interdiffusion in Fe-Oxide@NiCo₂O₄ for Enhanced Oxygen Evolution. ACS Applied Materials & Interfaces, 2021, 13, 53725-53735.	4.0	32
24	Optimal Rule-of-Thumb Design of Nickelâ€“Vanadium Oxides as an Electrochromic Electrode with Ultrahigh Capacity and Ultrafast Color Tunability. ACS Applied Materials & Interfaces, 2021, 13, 57403-57410.	4.0	16
25	Self-Catalytic Growth of Elementary Semiconductor Nanowires with Controlled Morphology and Crystallographic Orientation. Nano Letters, 2021, 21, 9909-9915.	4.5	2
26	The Effect of Cs/FA Ratio on the Longâ€Term Stability of Mixed Cation Perovskite Solar Cells. Solar Rrl, 2021, 5, .	3.1	0
27	Machine learning and artificial neural network accelerated computational discoveries in materials science. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2020, 10, e1450.	6.2	58
28	Hybrid Passivation for Foldable Indium Gallium Zinc Oxide Thinâ€Film Transistors Mediated by Lowâ€Temperature and Lowâ€Damage Paryleneâ€C/Atomic Layer Depositionâ€AlO_x Coating. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900832.	0.8	8
29	Copperâ€“Indium Binary Catalyst on a Gas Diffusion Electrode for High-Performance CO₂ Electrochemical Reduction with Record CO Production Efficiency. ACS Applied Materials & Interfaces, 2020, 12, 601-608.	4.0	57
30	A Robust Nonprecious CuFe Composite as a Highly Efficient Bifunctional Catalyst for Overall Electrochemical Water Splitting. Small, 2020, 16, e1905884.	5.2	63
31	2D Metal Zn Nanostructure Electrodes for Highâ€Performance Zn Ion Supercapacitors. Advanced Energy Materials, 2020, 10, 1902981.	10.2	158
32	Multiphoton Absorption Stimulated Metal Chalcogenide Quantum Dot Solar Cells under Ambient and Concentrated Irradiance. Advanced Functional Materials, 2020, 30, 2004563.	7.8	40
33	Lattice marginal reconstruction-enabled high ambient-tolerance perovskite quantum dot phototransistors. Journal of Materials Chemistry C, 2020, 8, 16001-16009.	2.7	6
34	Indoor application of emerging photovoltaicsâ€”progress, challenges and perspectives. Journal of Materials Chemistry A, 2020, 8, 21503-21525.	5.2	64
35	Quantum Dots Microstructural Metrology: From Timeâ€Resolved Spectroscopy to Spatially Resolved Electron Microscopy. Particle and Particle Systems Characterization, 2020, 37, 2000192.	1.2	5
36	Nanofilament array embedded tungsten oxide for highly efficient electrochromic supercapacitor electrodes. Journal of Materials Chemistry A, 2020, 8, 13459-13469.	5.2	53

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37	Colloidal quantum dot hybrids: an emerging class of materials for ambient lighting. Journal of Materials Chemistry C, 2020, 8, 10676-10695.	2.7	46
38	Rational-Designed Hybrid Aerogels for Ultra-Flyweight Electrochemical Energy Storage. Journal of Physical Chemistry C, 2020, 124, 15688-15697.	1.5	13
39	Asymmetric Carbon Nanohorn Enabled Soft Capacitors with High Power Density and Ultraâ€Low Cutoff Frequency. Advanced Materials Technologies, 2020, 5, 2000372.	3.0	5
40	Waterproof Flexible InP@ZnSeS Quantum Dot Lightâ€Emitting Diode. Advanced Optical Materials, 2020, 8, 1901362.	3.6	23
41	Plasmonic Effects of Dual-Metal Nanoparticle Layers for High-Performance Quantum Dot Solar Cells. Plasmonics, 2020, 15, 1007-1013.	1.8	12
42	Nano-to-Microporous Networks via Inkjet Printing of ZnO Nanoparticles/Graphene Hybrid for Ultraviolet Photodetectors. ACS Applied Nano Materials, 2020, 3, 4454-4464.	2.4	19
43	Growth of quantum dot coated core-shell anisotropic nanowires for improved thermal and electronic transport. Applied Physics Letters, 2019, 114, 243104.	1.5	6
44	Colloidal Quantum Dots: The Artificial Building Blocks for Newâ€Generation Photoâ€Electronics and Photochemistry. Israel Journal of Chemistry, 2019, 59, 637-638.	1.0	10
45	Molecular interaction balanced one- and two-dimensional hybrid nanoarchitectures for high-performance supercapacitors. Physical Chemistry Chemical Physics, 2019, 21, 22283-22292.	1.3	12
46	Direct Epitaxial Synthesis of Selective Two-Dimensional Lateral Heterostructures. ACS Nano, 2019, 13, 13047-13055.	7.3	52
47	Morphology Engineering of Selfâ€Assembled Nanostructured CuCo₂O₄ Anodes for Lithiumâ€Ion Batteries. Energy Technology, 2019, 7, 1900295.	1.8	22
48	Quantum Dots for Hybrid Energy Harvesting: From Integration to Piezoâ€Phototronics. Israel Journal of Chemistry, 2019, 59, 747-761.	1.0	3
49	Chemically encoded self-organized quantum chain supracrystals with exceptional charge and ion transport properties. Nano Energy, 2019, 62, 764-771.	8.2	20
50	Quantum Dots Based Photocatalytic Hydrogen Evolution. Israel Journal of Chemistry, 2019, 59, 762-773.	1.0	27
51	Accelerated discoveries of mechanical properties of graphene using machine learning and high-throughput computation. Carbon, 2019, 148, 115-123.	5.4	68
52	Modeling Electrical Percolation to optimize the Electromechanical Properties of CNT/Polymer Composites in Highly Stretchable Fiber Strain Sensors. Scientific Reports, 2019, 9, 20376.	1.6	18
53	Nanoporous CuCo2O4 nanosheets as a highly efficient bifunctional electrode for supercapacitors and water oxidation catalysis. Applied Surface Science, 2019, 470, 360-367.	3.1	104
54	Facile electrodeposition of high-density CuCo2O4 nanosheets as a high-performance Li-ion battery anode material. Journal of Industrial and Engineering Chemistry, 2019, 69, 13-17.	2.9	27

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55	Optimizing nanosheet nickel cobalt oxide as an anode material for bifunctional electrochemical energy storage and oxygen electrocatalysis. Electrochimica Acta, 2018, 274, 279-287.	2.6	24
56	Balancing Charge Carrier Transport in a Quantum Dot Pâ€“N Junction toward Hysteresis-Free High-Performance Solar Cells. ACS Energy Letters, 2018, 3, 1036-1043.	8.8	37
57	Flexible Solar Cells: Charge Transport Modulation of a Flexible Quantum Dot Solar Cell Using a Piezoelectric Effect (Adv. Energy Mater. 3/2018). Advanced Energy Materials, 2018, 8, 1870012.	10.2	6
58	Field effect transistors and phototransistors based upon p-type solution-processed PbS nanowires. Nanotechnology, 2018, 29, 075202.	1.3	11
59	Direct growth of 2D nickel hydroxide nanosheets intercalated with polyoxovanadate anions as a binder-free supercapacitor electrode. Nanoscale, 2018, 10, 8953-8961.	2.8	76
60	Charge Transport Modulation of a Flexible Quantum Dot Solar Cell Using a Piezoelectric Effect. Advanced Energy Materials, 2018, 8, 1700809.	10.2	30
61	Nanocluster Intercalation: Two-Dimensional Layered Hydroxide Nanoporous Nanohybrids Pillared with Zero-Dimensional Polyoxovanadate Nanoclusters for Enhanced Water Oxidation Catalysis (Small 49/2018). Small, 2018, 14, 1870235.	5.2	0
62	Water Splitting: Cobalt Nanocrystals Encapsulated in Heteroatom-Rich Porous Carbons Derived from Conjugated Microporous Polymers for Efficient Electrocatalytic Hydrogen Evolution (Small 42/2018). Small, 2018, 14, 1870193.	5.2	4
63	Twoâ€Dimensional Layered Hydroxide Nanoporous Nanohybrids Pillared with Zeroâ€Dimensional Polyoxovanadate Nanoclusters for Enhanced Water Oxidation Catalysis. Small, 2018, 14, e1703481.	5.2	33
64	Consecutive Junction-Induced Efficient Charge Separation Mechanisms for High-Performance MoS₂/Quantum Dot Phototransistors. ACS Applied Materials & Interfaces, 2018, 10, 38264-38271.	4.0	58
65	Cobalt Nanocrystals Encapsulated in Heteroatomâ€Rich Porous Carbons Derived from Conjugated Microporous Polymers for Efficient Electrocatalytic Hydrogen Evolution. Small, 2018, 14, e1803232.	5.2	27
66	Sustainable hybrid energy harvester based on air stable quantum dot solar cells and triboelectric nanogenerator. Journal of Materials Chemistry A, 2018, 6, 12440-12446.	5.2	33
67	Nanoflake NiMoO4 based smart supercapacitor for intelligent power balance monitoring. Solar Energy Materials and Solar Cells, 2018, 185, 166-173.	3.0	144
68	Influence of operating temperature on Li2ZnTi3O8 anode performance and high-rate charging activity of Li-ion battery. Ceramics International, 2018, 44, 18625-18632.	2.3	23
69	Oxygen Evolution Reaction: Self-Assembled Nanostructured CuCo2 O4 for Electrochemical Energy Storage and the Oxygen Evolution Reaction via Morphology Engineering (Small 28/2018). Small, 2018, 14, 1870132.	5.2	6
70	Ultrathin Ni-Mo oxide nanoflakes for high-performance supercapacitor electrodes. Journal of Alloys and Compounds, 2018, 767, 782-788.	2.8	23
71	Selfâ€Assembled Nanostructured CuCo₂O₄ for Electrochemical Energy Storage and the Oxygen Evolution Reaction via Morphology Engineering. Small, 2018, 14, e1800742.	5.2	100
72	Solvothermal synthesis of high-performance Ni-Co layered double hydroxide nanofoam electrode for electrochemical energy storage. Current Applied Physics, 2017, 17, 501-506.	1.1	23

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73	Hierarchically assembled tubular shell-core-shell heterostructure of hybrid transition metal chalcogenides for high-performance supercapacitors with ultrahigh cyclability. Nano Energy, 2017, 37, 15-23.	8.2	72
74	Self-assembled two-dimensional copper oxide nanosheet bundles as an efficient oxygen evolution reaction (OER) electrocatalyst for water splitting applications. Journal of Materials Chemistry A, 2017, 5, 12747-12751.	5.2	170
75	Red green blue emissive lead sulfide quantum dots: heterogeneous synthesis and applications. Journal of Materials Chemistry C, 2017, 5, 3692-3698.	2.7	23
76	Highly efficient electro-optically tunable smart-supercapacitors using an oxygen-excess nanograin tungsten oxide thin film. Solar Energy Materials and Solar Cells, 2017, 166, 78-85.	3.0	106
77	Dataset on electro-optically tunable smart-supercapacitors based on oxygen-excess nanograin tungsten oxide thin film. Data in Brief, 2017, 14, 453-457.	0.5	3
78	Highly stable 3D porous heterostructures with hierarchically-coordinated octahedral transition metals for enhanced performance supercapacitors. Nano Energy, 2017, 39, 337-345.	8.2	72
79	Solubility-Dependent NiMoO₄ Nanoarchitectures: Direct Correlation between Rationally Designed Structure and Electrochemical Pseudokinetics. ACS Applied Materials & Interfaces, 2016, 8, 35227-35234.	4.0	37
80	Inorganic-ligand exchanging time effect in PbS quantum dot solar cell. Applied Physics Letters, 2016, 109, .	1.5	33
81	High Performance PbS Quantum Dot/Graphene Hybrid Solar Cell with Efficient Charge Extraction. ACS Applied Materials & Interfaces, 2016, 8, 13902-13908.	4.0	72
82	Highly Monodispersed PbS Quantum Dots for Outstanding Cascaded-Junction Solar Cells. ACS Energy Letters, 2016, 1, 834-839.	8.8	90
83	Enhanced charge carrier transport properties in colloidal quantum dot solar cells via organic and inorganic hybrid surface passivation. Journal of Materials Chemistry A, 2016, 4, 18769-18775.	5.2	29
84	Electronic and optical properties of single crystal SnS₂: an earth-abundant disulfide photocatalyst. Journal of Materials Chemistry A, 2016, 4, 1312-1318.	5.2	246
85	Crystal structure and defects visualization of Cu2ZnSnS4 nanoparticles employing transmission electron microscopy and electron diffraction. Applied Materials Today, 2015, 1, 52-59.	2.3	75
86	Rapid phosphine-free synthesis of CdSe quantum dots: promoting the generation of Se precursors using a radical initiator. Journal of Materials Chemistry A, 2014, 2, 6879-6886.	5.2	31
87	Lactose as a â€œTrojan Horseâ€•for Quantum Dot Cell Transport. Angewandte Chemie - International Edition, 2014, 53, 810-814.	7.2	67
88	Initial Stages in the Formation of Cu₂ZnSn(S,Se)₄ Nanoparticles. Chemistry - A European Journal, 2013, 19, 15847-15851.	1.7	30
89	Structure and Band Edge Energy of Highly Luminescent CdSe_{1â€“x}Te_x Alloyed Quantum Dots. Journal of Physical Chemistry C, 2013, 117, 6814-6820.	1.5	60
90	Evolvement of soft templates in surfactant/cosurfactant system for shape control of ZnSe nanocrystals. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 411-415.	1.7	4

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91	Application of ultrasonics to enhance the efficiency of cleaning Thelephora ganbajun. Ultrasonics Sonochemistry, 2009, 16, 209-211.	3.8	7
92	A simple way of shape-controlled synthesis of ZnSe nanocrystalsâ€‰:â€‰ nanodots, nanoflowers, and nanotubes. CrystEngComm, 2009, 11, 1789.	1.3	15
93	Lead Leaching of Perovskite Solar Cells in Aqueous Environments: A Quantitative Investigation. Solar Rrl, 0, , .	3.1	5