

Shaoming Huang

List of Publications by Year in descending order

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365
papers

21,793
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10389

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372
docs citations

372
times ranked

22465
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfur-Doped Graphene as an Efficient Metal-free Cathode Catalyst for Oxygen Reduction. ACS Nano, 2012, 6, 205-211.	14.6	1,783
2	A Lightweight TiO ₂ /Graphene Interlayer, Applied as a Highly Effective Polysulfide Absorbent for Fast, Long-Life Lithium-Sulfur Batteries. Advanced Materials, 2015, 27, 2891-2898.	21.0	667
3	Mechanical properties of atomically thin boron nitride and the role of interlayer interactions. Nature Communications, 2017, 8, 15815.	12.8	576
4	Observation of Active Sites for Oxygen Reduction Reaction on Nitrogen-Doped Multilayer Graphene. ACS Nano, 2014, 8, 6856-6862.	14.6	519
5	Recent progress in doped carbon nanomaterials as effective cathode catalysts for fuel cell oxygen reduction reaction. Journal of Power Sources, 2013, 236, 238-249.	7.8	450
6	Band Structure, Phonon Scattering, and the Performance Limit of Single-Walled Carbon Nanotube Transistors. Physical Review Letters, 2005, 95, 146805.	7.8	447
7	Growth of Millimeter-Long and Horizontally Aligned Single-Walled Carbon Nanotubes on Flat Substrates. Journal of the American Chemical Society, 2003, 125, 5636-5637.	13.7	418
8	Growth Mechanism of Oriented Long Single Walled Carbon Nanotubes Using "Fast-Heating" Chemical Vapor Deposition Process. Nano Letters, 2004, 4, 1025-1028.	9.1	367
9	Catalyst-free synthesis of iodine-doped graphene via a facile thermal annealing process and its use for electrocatalytic oxygen reduction in an alkaline medium. Chemical Communications, 2012, 48, 1027-1029.	4.1	336
10	Sulfur-nitrogen co-doped three-dimensional carbon foams with hierarchical pore structures as efficient metal-free electrocatalysts for oxygen reduction reactions. Nanoscale, 2013, 5, 3283.	5.6	304
11	Patterned Growth and Contact Transfer of Well-Aligned Carbon Nanotube Films. Journal of Physical Chemistry B, 1999, 103, 4223-4227.	2.6	284
12	Plasma Activation of Carbon Nanotubes for Chemical Modification. Journal of Physical Chemistry B, 2001, 105, 618-622.	2.6	265
13	Structure and growth of aligned carbon nanotube films by pyrolysis. Chemical Physics Letters, 2000, 316, 349-355.	2.6	248
14	Aligned Coaxial Nanowires of Carbon Nanotubes Sheathed with Conducting Polymers. Angewandte Chemie - International Edition, 2000, 39, 3664-3667.	13.8	235
15	Na ₃ V ₂ (PO ₄) ₃ : an advanced cathode for sodium-ion batteries. Nanoscale, 2019, 11, 2556-2576.	5.6	227
16	Metal-Catalyst-Free Growth of Single-Walled Carbon Nanotubes on Substrates. Journal of the American Chemical Society, 2009, 131, 2094-2095.	13.7	226
17	INVESTIGATION OF HOMOLOGOUS SERIES AS PRECURSORY HYDROCARBONS FOR ALIGNED CARBON NANOTUBE FORMATION BY THE SPRAY PYROLYSIS METHOD. Nano, 2011, 06, 205-213.	1.0	226
18	Anode Improvement in Rechargeable Lithium-Sulfur Batteries. Advanced Materials, 2017, 29, 1700542.	21.0	225

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19	Stringing Bimetallic Metal-Organic Framework-Derived Cobalt Phosphide Composite for High-Efficiency Overall Water Splitting. <i>Advanced Science</i> , 2020, 7, 1903195.	11.2	214
20	Self-Assembled Three-Dimensional Hierarchical Umbilicate Bi ₂ WO ₆ Microspheres from Nanoplates: Controlled Synthesis, Photocatalytic Activities, and Wettability. <i>Journal of Physical Chemistry C</i> , 2009, 113, 4369-4374.	3.1	213
21	Metal-free selenium doped carbon nanotube/graphene networks as a synergistically improved cathode catalyst for oxygen reduction reaction. <i>Nanoscale</i> , 2012, 4, 6455.	5.6	212
22	Highly Efficient Binding of DNA on the Sidewalls and Tips of Carbon Nanotubes Using Photochemistry. <i>Nano Letters</i> , 2004, 4, 89-93.	9.1	209
23	Nonenzymatic electrochemical detection of glucose using well-distributed nickel nanoparticles on straight multi-walled carbon nanotubes. <i>Biosensors and Bioelectronics</i> , 2011, 30, 28-34.	10.1	207
24	One-pot hydrothermal synthesis of reduced graphene oxide/carbon nanotube/Ni(OH) ₂ composites for high performance electrochemical supercapacitor. <i>Journal of Power Sources</i> , 2013, 243, 555-561.	7.8	204
25	Functionalized Boron Nitride Nanosheets/Graphene Interlayer for Fast and Long-Life Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602380.	19.5	201
26	MOF derived N-doped carbon coated CoP particle/carbon nanotube composite for efficient oxygen evolution reaction. <i>Carbon</i> , 2019, 141, 643-651.	10.3	192
27	Chemical and morphological transformation of MOF-derived bimetallic phosphide for efficient oxygen evolution. <i>Nano Energy</i> , 2019, 62, 745-753.	16.0	189
28	Polysulfide-Scission Reagents for the Suppression of the Shuttle Effect in Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2017, 11, 2209-2218.	14.6	188
29	Sulfur-doped porous reduced graphene oxide hollow nanosphere frameworks as metal-free electrocatalysts for oxygen reduction reaction and as supercapacitor electrode materials. <i>Nanoscale</i> , 2014, 6, 13740-13747.	5.6	183
30	Bottom-up synthesis of MOF-derived hollow N-doped carbon materials for enhanced ORR performance. <i>Carbon</i> , 2019, 146, 248-256.	10.3	177
31	Luminescent 4f and d-4f polynuclear complexes and coordination polymers with flexible salen-type ligands. <i>Coordination Chemistry Reviews</i> , 2014, 273-274, 63-75.	18.8	157
32	Hydrothermal synthesis and photoluminescence properties of red phosphor BaSiF ₆ :Mn ⁴⁺ for LED applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2301.	5.5	156
33	Molybdenum Carbide Nanoparticles Coated into the Graphene Wrapping N-Doped Porous Carbon Microspheres for Highly Efficient Electrocatalytic Hydrogen Evolution Both in Acidic and Alkaline Media. <i>Advanced Science</i> , 2018, 5, 1700733.	11.2	152
34	Persistent zinc-ion storage in mass-produced V ₂ O ₅ architectures. <i>Nano Energy</i> , 2019, 60, 171-178.	16.0	149
35	Plasma Etching for Purification and Controlled Opening of Aligned Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3543-3545.	2.6	144
36	The formation mechanism, improved photoluminescence and LED applications of red phosphor K ₂ SiF ₆ :Mn ⁴⁺ . <i>Journal of Materials Chemistry C</i> , 2014, 2, 3879-3884.	5.5	142

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37	Metal Chalcogenides: Paving the Way for High-Performance Sodium/Potassium-Ion Batteries. <i>Small Methods</i> , 2020, 4, 1900563.	8.6	140
38	A review of recent work on using metal-organic frameworks to grow carbon nanotubes. <i>Chemical Communications</i> , 2020, 56, 10809-10823.	4.1	135
39	Anion-Dependent Self-Assembly of Near-Infrared Luminescent 24- and 32-Metal Cd-Ln Complexes with Drum-like Architectures. <i>Journal of the American Chemical Society</i> , 2013, 135, 8468-8471.	13.7	134
40	Sulfur-impregnated, Sandwich-type, Hybrid Carbon Nanosheets with Hierarchical Porous Structure for High-Performance Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1301988.	19.5	130
41	Patterned Growth of Well-Aligned Carbon Nanotubes: A Photolithographic Approach. <i>Journal of the American Chemical Society</i> , 1999, 121, 10832-10833.	13.7	126
42	Porous carbon nanotubes etched by water steam for high-rate large-capacity lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8683-8689.	10.3	123
43	A lightweight multifunctional interlayer of sulfur-nitrogen dual-doped graphene for ultrafast, long-life lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15343-15352.	10.3	120
44	Oxyvanite V_3O_5 : A new intercalation-type anode for lithium-ion battery. <i>Information Materials</i> , 2019, 1, 251-259.	17.3	117
45	Magnetic properties of Fe nanoparticles trapped at the tips of the aligned carbon nanotubes. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 231, 9-12.	2.3	115
46	Polymer Electrolyte-Gated Carbon Nanotube Field-Effect Transistor. <i>Nano Letters</i> , 2004, 4, 623-627.	9.1	113
47	Patterned Growth of Well-Aligned Carbon Nanotubes: A Soft-Lithographic Approach. <i>Journal of Physical Chemistry B</i> , 2000, 104, 2193-2196.	2.6	112
48	Size control of $Au@Cu_2O$ octahedra for excellent photocatalytic performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 719-724.	6.7	112
49	Optimized photoluminescence of red phosphor $K_2TiF_6:Mn^{4+}$ synthesized at room temperature and its formation mechanism. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1935-1941.	5.5	107
50	Facile synthesis of Cu_2ZnSnS_4 nanocrystals. <i>CrystEngComm</i> , 2011, 13, 3310.	2.6	106
51	Constructing hierarchical $ZnIn_2S_4/g-C_3N_4$ S-scheme heterojunction for boosted CO_2 photoreduction performance. <i>Chemical Engineering Journal</i> , 2022, 437, 135153.	12.7	102
52	A red phosphor $BaTiF_6:Mn^{4+}$: reaction mechanism, microstructures, optical properties, and applications for white LEDs. <i>Dalton Transactions</i> , 2014, 43, 9414-9418.	3.3	100
53	Fe_7C_3 nanoparticles with in situ grown CNT on nitrogen doped hollow carbon cube with greatly enhanced conductivity and ORR performance for alkaline fuel cell. <i>Carbon</i> , 2021, 174, 531-539.	10.3	100
54	Bi nanoparticles/ Bi_2O_3 nanosheets with abundant grain boundaries for efficient electrocatalytic CO_2 reduction. <i>Electrochimica Acta</i> , 2019, 298, 580-586.	5.2	98

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55	B, N-doped ultrathin carbon nanosheet superstructure for high-performance oxygen reduction reaction in rechargeable zinc-air battery. <i>Carbon</i> , 2020, 164, 398-406.	10.3	96
56	Chemical Vapor Depositions of Single-Walled Carbon Nanotubes Catalyzed by Uniform Fe ₂ O ₃ Nanoclusters Synthesized Using Diblock Copolymer Micelles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6124-6129.	2.6	92
57	Facile Construction of Manganese Oxide Doped Carbon Nanotube Catalysts with High Activity for Oxygen Reduction Reaction and Investigations into the Origin of their Activity Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2601-2606.	8.0	92
58	Tunable luminescence and energy transfer properties of Bi ³⁺ and Mn ⁴⁺ co-doped Ca ₁₄ Al ₁₀ Zn ₆ O ₃₅ phosphors for agricultural applications. <i>RSC Advances</i> , 2017, 7, 14868-14875.	3.6	90
59	An electrochemical impedance sensor for the label-free ultrasensitive detection of interleukin-6 antigen. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 310-315.	7.8	88
60	Electrochemical detection of hepatitis B and papilloma virus DNAs using SWCNT array coated with gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2013, 41, 205-210.	10.1	88
61	Multidimensional CdS nanowire/CdIn ₂ S ₄ nanosheet heterostructure for photocatalytic and photoelectrochemical applications. <i>Nano Research</i> , 2017, 10, 2699-2711.	10.4	85
62	Nanostructured Li ₃ V ₂ (PO ₄) ₃ Cathodes. <i>Small</i> , 2018, 14, e1800567.	10.0	85
63	A High-Capacity Ammonium Vanadate Cathode for Zinc-Ion Battery. <i>Nano-Micro Letters</i> , 2020, 12, 67.	27.0	85
64	Facile synthesis of nanospindle-like Cu ₂ O/straight multi-walled carbon nanotube hybrid nanostructures and their application in enzyme-free glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2012, 168, 1-7.	7.8	82
65	Dual-Regulation Strategy to Improve Anchoring and Conversion of Polysulfides in Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2020, 14, 7538-7551.	14.6	80
66	Catalyst-free growth of large scale nitrogen-doped carbon spheres as efficient electrocatalysts for oxygen reduction in alkaline medium. <i>Journal of Power Sources</i> , 2011, 196, 9970-9974.	7.8	79
67	Metal-Organic Framework Derived Ultrafine Sb@Porous Carbon Octahedron <i>via In Situ</i> Substitution for High-Performance Sodium-Ion Batteries. <i>ACS Nano</i> , 2021, 15, 15104-15113.	14.6	79
68	Bulk Hexagonal Boron Nitride with a Quasi-Isotropic Thermal Conductivity. <i>Advanced Functional Materials</i> , 2018, 28, 1707556.	14.9	78
69	CoMo carbide/nitride from bimetallic MOF precursors for enhanced OER performance. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 22268-22276.	7.1	78
70	Raman Spectroscopy and Imaging of Ultralong Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3751-3758.	2.6	75
71	A Facile and General Approach for the Direct Fabrication of 3D, Vertically Aligned Carbon Nanotube Array/Transition Metal Oxide Composites as Non-Pt Catalysts for Oxygen Reduction Reactions. <i>Advanced Materials</i> , 2014, 26, 3156-3161.	21.0	74
72	Controlled Growth of Ag/Au Bimetallic Nanorods through Kinetics Control. <i>Chemistry of Materials</i> , 2013, 25, 34-41.	6.7	73

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73	Boron Nitride Nanosheets Improve Sensitivity and Reusability of Surface-Enhanced Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8405-8409.	13.8	73
74	A nickel hydroxide-coated 3D porous graphene hollow sphere framework as a high performance electrode material for supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4186.	2.8	72
75	Subnanometer Molybdenum Sulfide on Carbon Nanotubes as a Highly Active and Stable Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3543-3550.	8.0	72
76	Raman Spectral Imaging of a Carbon Nanotube Intramolecular Junction. <i>Physical Review Letters</i> , 2005, 94, 016802.	7.8	71
77	Oriented Long Single Walled Carbon Nanotubes on Substrates from Floating Catalysts. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13251-13254.	2.6	68
78	Cross-Linked Chains of Metal-Organic Framework Afford Continuous Ion Transport in Solid Batteries. <i>ACS Energy Letters</i> , 2021, 6, 2434-2441.	17.4	67
79	Selective Etching Induces Selective Growth and Controlled Formation of Various Platinum Nanostructures by Modifying Seed Surface Free Energy. <i>ACS Nano</i> , 2012, 6, 4072-4082.	14.6	65
80	General approach to MOF-derived core-shell bimetallic oxide nanowires for fast response to glucose oxidation. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127551.	7.8	64
81	Interface engineering in transition metal-based heterostructures for oxygen electrocatalysis. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1033-1059.	5.9	64
82	Anion-Dependent Crystallization of Four Supramolecular Cadmium Complexes: Structures and Property Studies. <i>Crystal Growth and Design</i> , 2008, 8, 3401-3407.	3.0	63
83	Boron nitride nanosheets as improved and reusable substrates for gold nanoparticles enabled surface enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 7761-7766.	2.8	61
84	Synthesis of AgInS ₂ quantum dots with tunable photoluminescence for sensitized solar cells. <i>Journal of Power Sources</i> , 2017, 341, 11-18.	7.8	61
85	Anion dependent self-assembly of drum-like 30- and 32-metal Cd-Ln nanoclusters: visible and NIR luminescent sensing of metal cations. <i>Journal of Materials Chemistry C</i> , 2018, 6, 865-874.	5.5	61
86	Growth of Nanobipyramid by Using Large Sized Au Decahedra as Seeds. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 13340-13352.	8.0	60
87	Controlled Growth of Long GaN Nanowires from Catalyst Patterns Fabricated by Dip-Pen Nanolithographic Techniques. <i>Chemistry of Materials</i> , 2004, 16, 1633-1636.	6.7	58
88	Extremely sensitive mechanochromic photonic crystals with broad tuning range of photonic bandgap and fast responsive speed for high-resolution multicolor display applications. <i>Chemical Engineering Journal</i> , 2022, 429, 132342.	12.7	58
89	A bimetallic carbide derived from a MOF precursor for increasing electrocatalytic oxygen evolution activity. <i>Chemical Communications</i> , 2017, 53, 13027-13030.	4.1	57
90	Interlayer coupling in anisotropic/isotropic van der Waals heterostructures of ReS ₂ and MoS ₂ monolayers. <i>Nano Research</i> , 2016, 9, 3772-3780.	10.4	56

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91	Carbon quantum dots/Zn ²⁺ ions doped-CdS nanowires with enhanced photocatalytic activity for reduction of 4-nitroaniline to p-phenylenediamine. <i>Applied Surface Science</i> , 2018, 450, 1-8.	6.1	56
92	Self-assembly of luminescent 12-metal Zn-Ln planar nanoclusters with sensing properties towards nitro explosives. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8513-8521.	5.5	56
93	Recent Advances in Electrocatalysts for Alkaline Hydrogen Oxidation Reaction. <i>Small</i> , 2021, 17, e2100391.	10.0	56
94	Highly efficient oxygen evolution from CoS ₂ /CNT nanocomposites via a one-step electrochemical deposition and dissolution method. <i>Nanoscale</i> , 2017, 9, 6886-6894.	5.6	55
95	Boron Nitride Nanosheet-Veiled Gold Nanoparticles for Surface-Enhanced Raman Scattering. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15630-15636.	8.0	54
96	One-dimensional hexagonal-phase NaYF ₄ : Controlled synthesis, self-assembly, and morphology-dependent up-conversion luminescence properties. <i>CrystEngComm</i> , 2010, 12, 1650.	2.6	53
97	Atomically Dispersed CoN ₄ /B, N-C Nanotubes Boost Oxygen Reduction in Rechargeable Zn-Air Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 4539-4548.	5.1	53
98	Biomimetic Molecule Catalysts to Promote the Conversion of Polysulfides for Advanced Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2003354.	14.9	53
99	Fabrication horizontal aligned MoO ₂ /single-walled carbon nanotube nanowires for electrochemical supercapacitor. <i>Materials Letters</i> , 2010, 64, 537-540.	2.6	52
100	Ascorbic-acid-assisted growth of high quality M@ZnO: a growth mechanism and kinetics study. <i>Nanoscale</i> , 2013, 5, 11808.	5.6	51
101	The Optimized Interfacial Compatibility of Metal-Organic Frameworks Enables a High-Performance Quasi-Solid Metal Battery. <i>ACS Energy Letters</i> , 2020, 5, 2919-2926.	17.4	51
102	3D CNTs/Graphene-CSA-Al ₃ Ni ₂ Cathodes for High-Sulfur Loading and Long-Life Lithium-Sulfur Batteries. <i>Advanced Science</i> , 2018, 5, 1800026.	11.2	50
103	Wurtzite CuInS ₂ and CuIn _x Ga _{1-x} S ₂ nanoribbons: synthesis, optical and photoelectrical properties. <i>Nanoscale</i> , 2013, 5, 1638.	5.6	49
104	Surfactant-Mediated Morphological Evolution of MnCo Prussian Blue Structures. <i>Small</i> , 2020, 16, e2004614.	10.0	49
105	Controllable synthesis of highly uniform flower-like hierarchical carbon nanospheres and their application in high performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6245-6256.	10.3	48
106	Simple and Ultrafast Fabrication of Invisible Photonic Prints with Reconfigurable Patterns. <i>Advanced Optical Materials</i> , 2020, 8, 1901541.	7.3	48
107	Mn ⁴⁺ -doped (NH ₄) ₂ TiF ₆ and (NH ₄) ₂ SiF ₆ micro-crystal phosphors: synthesis through ion exchange at room temperature and their photoluminescence properties. <i>RSC Advances</i> , 2016, 6, 76251-76258.	3.6	47
108	Molecule-Induced Conformational Change in Boron Nitride Nanosheets with Enhanced Surface Adsorption. <i>Advanced Functional Materials</i> , 2016, 26, 8202-8210.	14.9	47

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109	A microporous MOF with open metal sites and Lewis basic sites for selective CO ₂ capture. Dalton Transactions, 2017, 46, 14102-14106.	3.3	47
110	Nanotube π - π circles TM . Journal of Materials Chemistry, 1999, 9, 1221-1222.	6.7	46
111	Artificial sodium-selective ionic device based on crown-ether crystals with subnanometer pores. Nature Communications, 2021, 12, 5231.	12.8	46
112	Aligned SWCNT-copper oxide array as a nonenzymatic electrochemical probe of glucose. Electrochemistry Communications, 2011, 13, 363-365.	4.7	45
113	Optimized photoluminescence of red phosphor Na ₂ SnF ₆ :Mn ⁴⁺ as red phosphor in the application in π -white π -LEDs. Journal of the American Ceramic Society, 2017, 100, 2005-2015.	3.8	45
114	One-step template-free synthesis of 3D functionalized flower-like boron nitride nanosheets for NH ₃ and CO ₂ adsorption. Nanoscale, 2018, 10, 10979-10985.	5.6	45
115	Highly Efficient Detection of Homologues and Isomers by the Dynamic Swelling Reflection Spectrum. ACS Applied Materials & Interfaces, 2020, 12, 45174-45183.	8.0	45
116	Self-assembly of colloidal particles into amorphous photonic crystals. Materials Advances, 2021, 2, 6499-6518.	5.4	43
117	Simple and efficient fabrication of multi-stage color-changeable photonic prints as anti-counterfeit labels. Journal of Colloid and Interface Science, 2021, 590, 134-143.	9.4	43
118	Growth mechanism of largescale MoS ₂ monolayer by sulfurization of MoO ₃ film. Materials Research Express, 2016, 3, 075009.	1.6	42
119	Synthesis of wurtzite CuInS ₂ nanowires by Ag ₂ S-catalyzed growth. CrystEngComm, 2013, 15, 1806.	2.6	41
120	Cuboctahedron-based indium ^{III} -organic frameworks for gas sorption and selective cation exchange. Chemical Communications, 2016, 52, 7978-7981.	4.1	41
121	Dual-emissions with energy transfer from the phosphor Ca ₁₄ Al ₁₀ Zn ₆ O ₃₅ :Bi ³⁺ ,Eu ³⁺ for application in agricultural lighting. Journal of Alloys and Compounds, 2017, 724, 735-743.	5.5	41
122	Combination of Digestive Ripening and Seeding Growth As a Generalized Route for Precisely Controlling Size of Monodispersed Noble Monometallic, Shell Thickness of Core ^{II} Shell and Composition of Alloy Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 256-264.	3.1	40
123	Synthesis, characterization and optical properties of flower-like tellurium. CrystEngComm, 2010, 12, 166-171.	2.6	40
124	5-fold Twinned Nanowires and Single Twinned Right Bipyramids of Pd: Utilizing Small Organic Molecules To Tune the Etching Degree of O ₂ /Halides. Chemistry of Materials, 2014, 26, 2453-2459.	6.7	40
125	Tunable Yellow-Red Photoluminescence and Persistent Afterglow in Phosphors Ca ₄ LaO(BO ₃) ₃ :Eu ³⁺ and Ca ₄ EuO(BO ₃) ₃ . Inorganic Chemistry, 2016, 55, 11249-11257.	4.0	40
126	Advanced cathodes for potassium-ion battery. Current Opinion in Electrochemistry, 2019, 18, 24-30.	4.8	40

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127	Controllable synthesis of carbon nanotubes by changing the Mo content in bimetallic Fe@Mo/MgO catalyst. <i>Materials Chemistry and Physics</i> , 2011, 127, 379-384.	4.0	39
128	Hydrangea-like multi-scale carbon hollow submicron spheres with hierarchical pores for high performance supercapacitor electrodes. <i>Electrochimica Acta</i> , 2015, 176, 207-214.	5.2	39
129	Robust Cage-Based Zinc@Organic Frameworks Derived Dual-Doped Carbon Materials for Supercapacitor. <i>Crystal Growth and Design</i> , 2018, 18, 2358-2364.	3.0	38
130	MOF-templated syntheses of porous Co ₃ O ₄ hollow spheres and micro-flowers for enhanced performance in supercapacitors. <i>CrystEngComm</i> , 2018, 20, 3812-3816.	2.6	38
131	Chameleon-Inspired Brilliant and Sensitive Mechano-Chromic Photonic Skins for Self-Reporting the Strains of Earthworms. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 11672-11680.	8.0	38
132	The unusual effect of AgNO ₃ on the growth of Au nanostructures and their catalytic performance. <i>Nanoscale</i> , 2013, 5, 4976.	5.6	37
133	Hand Painting of Noniridescent Structural Multicolor through the Self-Assembly of YO ₃ Colloids and Its Application for Anti-Counterfeiting. <i>Langmuir</i> , 2019, 35, 8428-8435.	3.5	37
134	Three-Dimensional Functionalized Boron Nitride Nanosheets/ZnO Superstructures for CO ₂ Capture. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10276-10282.	8.0	37
135	Molecular-Scale Interface Engineering of Metal@Organic Frameworks toward Ion Transport Enables High-Performance Solid Lithium Metal Battery. <i>Advanced Functional Materials</i> , 2020, 30, 2003945.	14.9	36
136	Li ₇ La ₃ Zr ₂ O ₁₂ Ceramic Nanofiber-Incorporated Solid Polymer Electrolytes for Flexible Lithium Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 5238-5246.	5.1	36
137	Hydrogen evolution reaction in full pH range on nickel doped tungsten carbide nanocubes as efficient and durable non-precious metal electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 8695-8702.	7.1	36
138	Identification of the Structures of Superlong Oriented Single-Walled Carbon Nanotube Arrays by Electrodeposition of Metal and Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2008, 130, 11860-11861.	13.7	35
139	Ag and N-doped graphene quantum dots co-modified CuBi ₂ O ₄ submicron rod photocathodes with enhanced photoelectrochemical activity. <i>Applied Surface Science</i> , 2019, 481, 661-668.	6.1	35
140	Constructing Heterogeneous Structure in Metal@Organic Framework-Derived Hierarchical Sulfur Hosts for Capturing Polysulfides and Promoting Conversion Kinetics. <i>ACS Nano</i> , 2021, 15, 18363-18373.	14.6	35
141	Growth of aligned SWNT arrays from water-soluble molecular clusters for nanotube device fabrication. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1077.	2.8	34
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