

Changzheng Wu

List of Publications by Citations

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199
papers

21,235
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77
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144
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218
ext. papers

24,284
ext. citations

12.7
avg, IF

7.03
L-index

#	Paper	IF	Citations
199	Metallic few-layered VS ₂ ultrathin nanosheets: high two-dimensional conductivity for in-plane supercapacitors. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17832-8	16.4	886
198	Single-Atom Pt as Co-Catalyst for Enhanced Photocatalytic H ₂ Evolution. <i>Advanced Materials</i> , 2016 , 28, 2427-31	24	865
197	Metallic nickel nitride nanosheets realizing enhanced electrochemical water oxidation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 4119-25	16.4	844
196	Two dimensional nanomaterials for flexible supercapacitors. <i>Chemical Society Reviews</i> , 2014 , 43, 3303-23	38.5	827
195	Atomically Dispersed Iron-Nitrogen Species as Electrocatalysts for Bifunctional Oxygen Evolution and Reduction Reactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 610-614	16.4	759
194	Ultrathin two-dimensional MnO ₂ /graphene hybrid nanostructures for high-performance, flexible planar supercapacitors. <i>Nano Letters</i> , 2013 , 13, 2151-7	11.5	751
193	Metallic Co ₄ N Porous Nanowire Arrays Activated by Surface Oxidation as Electrocatalysts for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14710-4	16.4	576
192	Synthesis of hematite (alpha-Fe ₂ O ₃) nanorods: diameter-size and shape effects on their applications in magnetism, lithium ion battery, and gas sensors. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17806-12	3.4	566
191	Exclusive Ni-N Sites Realize Near-Unity CO Selectivity for Electrochemical CO Reduction. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14889-14892	16.4	532
190	Fabrication of flexible and freestanding zinc chalcogenide single layers. <i>Nature Communications</i> , 2012 , 3, 1057	17.4	397
189	3D Nitrogen-Anion-Decorated Nickel Sulfides for Highly Efficient Overall Water Splitting. <i>Advanced Materials</i> , 2017 , 29, 1701584	24	375
188	Design of vanadium oxide structures with controllable electrical properties for energy applications. <i>Chemical Society Reviews</i> , 2013 , 42, 5157-83	58.5	335
187	Strong-Coupled Cobalt Borate Nanosheets/Graphene Hybrid as Electrocatalyst for Water Oxidation Under Both Alkaline and Neutral Conditions. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 2488-92	16.4	335
186	Facile one step method realizing scalable production of g-C ₃ N ₄ nanosheets and study of their photocatalytic H ₂ evolution activity. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18924-18928	13	328
185	Giant moisture responsiveness of VS ₂ ultrathin nanosheets for novel touchless positioning interface. <i>Advanced Materials</i> , 2012 , 24, 1969-74	24	324
184	A Bifunctional Hybrid Electrocatalyst for Oxygen Reduction and Evolution: Cobalt Oxide Nanoparticles Strongly Coupled to B,N-Decorated Graphene. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7121-7125	16.4	306
183	Two-dimensional vanadyl phosphate ultrathin nanosheets for high energy density and flexible pseudocapacitors. <i>Nature Communications</i> , 2013 , 4, 2431	17.4	304

182	A zwitterionic gel electrolyte for efficient solid-state supercapacitors. <i>Nature Communications</i> , 2016 , 7, 11782	17.4	259
181	Metallic Nickel Hydroxide Nanosheets Give Superior Electrocatalytic Oxidation of Urea for Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12465-9	16.4	253
180	Atomically thick bismuth selenide freestanding single layers achieving enhanced thermoelectric energy harvesting. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20294-7	16.4	244
179	Phase-Transformation Engineering in Cobalt Diselenide Realizing Enhanced Catalytic Activity for Hydrogen Evolution in an Alkaline Medium. <i>Advanced Materials</i> , 2016 , 28, 7527-32	24	241
178	Oxygen Vacancies Confined in Nickel Molybdenum Oxide Porous Nanosheets for Promoted Electrocatalytic Urea Oxidation. <i>ACS Catalysis</i> , 2018 , 8, 1-7	13.1	241
177	Surface chemical-modification for engineering the intrinsic physical properties of inorganic two-dimensional nanomaterials. <i>Chemical Society Reviews</i> , 2015 , 44, 637-46	58.5	238
176	Hydrogen-incorporated TiS ₂ ultrathin nanosheets with ultrahigh conductivity for stamp-transferrable electrodes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5144-51	16.4	228
175	Free-Standing Two-Dimensional Ru Nanosheets with High Activity toward Water Splitting. <i>ACS Catalysis</i> , 2016 , 6, 1487-1492	13.1	217
174	Semimetallic molybdenum disulfide ultrathin nanosheets as an efficient electrocatalyst for hydrogen evolution. <i>Nanoscale</i> , 2014 , 6, 8359-67	7.7	216
173	Metallic Co ₄ N Porous Nanowire Arrays Activated by Surface Oxidation as Electrocatalysts for the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2015 , 127, 14923-14927	3.6	208
172	Surface Immobilization of Transition Metal Ions on Nitrogen-Doped Graphene Realizing High-Efficient and Selective CO Reduction. <i>Advanced Materials</i> , 2018 , 30, e1706617	24	199
171	Synthesis of New-Phased VOOH Hollow Dandelions and Their Application in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2006 , 18, 1727-1732	24	198
170	Ultrathin nanosheets of vanadium diselenide: a metallic two-dimensional material with ferromagnetic charge-density-wave behavior. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10477-81	16.4	194
169	Engineering the electronic state of a perovskite electrocatalyst for synergistically enhanced oxygen evolution reaction. <i>Advanced Materials</i> , 2015 , 27, 5989-94	24	187
168	Unraveling metal-insulator transition mechanism of VO ₂ triggered by tungsten doping. <i>Scientific Reports</i> , 2012 , 2, 466	4.9	180
167	Cobalt nitrides as a class of metallic electrocatalysts for the oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 236-242	6.8	179
166	Controllable Surface Reorganization Engineering on Cobalt Phosphide Nanowire Arrays for Efficient Alkaline Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2018 , 30, 1703322	24	177
165	Interfacial engineering of cobalt sulfide/graphene hybrids for highly efficient ammonia electrosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6635-6640	11.5	175

164	Regulating Water-Reduction Kinetics in Cobalt Phosphide for Enhancing HER Catalytic Activity in Alkaline Solution. <i>Advanced Materials</i> , 2017 , 29, 1606980	24	168
163	In situ micelle-templated interface reaction route to CdS nanotubes and nanowires. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3712-3716		165
162	High-purity pyrrole-type FeN ₄ sites as a superior oxygen reduction electrocatalyst. <i>Energy and Environmental Science</i> , 2020 , 13, 111-118	35.4	158
161	Promoting Active Species Generation by Electrochemical Activation in Alkaline Media for Efficient Electrocatalytic Oxygen Evolution in Neutral Media. <i>Nano Letters</i> , 2017 , 17, 578-583	11.5	157
160	Promising vanadium oxide and hydroxide nanostructures: from energy storage to energy saving. <i>Energy and Environmental Science</i> , 2010 , 3, 1191	35.4	153
159	Understanding the nature of the kinetic process in a VO ₂ metal-insulator transition. <i>Physical Review Letters</i> , 2010 , 105, 226405	7.4	152
158	Ultrathin Cobalt Oxide Layers as Electrocatalysts for High-Performance Flexible Zn-Air Batteries. <i>Advanced Materials</i> , 2019 , 31, e1807468	24	151
157	Surface/interface nanoengineering for rechargeable Zn-air batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 1132-1153	35.4	148
156	Spin-State Regulation of Perovskite Cobaltite to Realize Enhanced Oxygen Evolution Activity. <i>Chem</i> , 2017 , 3, 812-821	16.2	144
155	Nearly monodisperse CuInS ₂ hierarchical microarchitectures for photocatalytic H ₂ evolution under visible light. <i>Inorganic Chemistry</i> , 2009 , 48, 4003-9	5.1	142
154	Molecular co-catalyst accelerating hole transfer for enhanced photocatalytic H ₂ evolution. <i>Nature Communications</i> , 2015 , 6, 8647	17.4	141
153	Growth of well-aligned gamma-MnO ₂ monocrystalline nanowires through a coordination-polymer-precursor route. <i>Chemistry - A European Journal</i> , 2003 , 9, 1645-51	4.8	140
152	Hydrogen-incorporation stabilization of metallic VO ₂ (R) phase to room temperature, displaying promising low-temperature thermoelectric effect. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13798-801	16.4	124
151	Surface/Interfacial Engineering of Inorganic Low-Dimensional Electrode Materials for Electrocatalysis. <i>Accounts of Chemical Research</i> , 2018 , 51, 2857-2866	24.3	124
150	Novel Flowerlike Metastable Vanadium Dioxide (B) Micronanostructures: Facile Synthesis and Application in Aqueous Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 15058-15067	3.8	122
149	MoS ₂ hierarchical hollow cubic cages assembled by bilayers: one-step synthesis and their electrochemical hydrogen storage properties. <i>Chemical Communications</i> , 2006 , 4738-40	5.8	122
148	Enhanced Catalytic Activity in Nitrogen-Anion Modified Metallic Cobalt Disulfide Porous Nanowire Arrays for Hydrogen Evolution. <i>ACS Catalysis</i> , 2017 , 7, 7405-7411	13.1	120
147	Facile Synthesis of SnO ₂ Hollow Nanospheres and Applications in Gas Sensors and Electrocatalysts. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 1643-1648	2.3	120

146	Selective synthesis of cobalt hydroxide carbonate 3D architectures and their thermal conversion to cobalt spinel 3D superstructures. <i>Materials Chemistry and Physics</i> , 2006 , 99, 479-486	4.4	117
145	Understanding Structure-Dependent Catalytic Performance of Nickel Selenides for Electrochemical Water Oxidation. <i>ACS Catalysis</i> , 2017 , 7, 310-315	13.1	115
144	Dual Electrical-Behavior Regulation on Electrocatalysts Realizing Enhanced Electrochemical Water Oxidation. <i>Advanced Materials</i> , 2016 , 28, 3326-32	24	114
143	From Complex Chains to 1D Metal Oxides: A Novel Strategy to Cu ₂ O Nanowires. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 3697-3702	3.4	111
142	Selected-Control Hydrothermal Synthesis of TiO ₂ 3D Nanostructures. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 13583-13587	3.4	110
141	Dynamic Migration of Surface Fluorine Anions on Cobalt-Based Materials to Achieve Enhanced Oxygen Evolution Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 15471-15475	16.4	109
140	Graphene/sulfur hybrid nanosheets from a space-confined "sauna" reaction for high-performance lithium-sulfur batteries. <i>Advanced Materials</i> , 2015 , 27, 5936-42	24	106
139	Visible Light Responsive Perovskite BiFeO ₃ Pills and Rods with Dominant {111}c Facets. <i>Crystal Growth and Design</i> , 2011 , 11, 1049-1053	3.5	106
138	Atomically Dispersed Iron-Nitrogen Species as Electrocatalysts for Bifunctional Oxygen Evolution and Reduction Reactions. <i>Angewandte Chemie</i> , 2017 , 129, 625-629	3.6	103
137	Solution-Liquid-Solid Synthesis of Hexagonal Nickel Selenide Nanowire Arrays with a Nonmetal Catalyst. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1710-3	16.4	103
136	Large-area graphene realizing ultrasensitive photothermal actuator with high transparency: new prototype robotic motions under infrared-light stimuli. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18584		102
135	Aqueous synthesis of mesostructured BiVO ₄ quantum tubes with excellent dual response to visible light and temperature. <i>Nano Research</i> , 2010 , 3, 620-631	10	97
134	Highly Polarized and Fast Photoresponse of Black Phosphorus-InSe Vertical p-n Heterojunctions. <i>Advanced Functional Materials</i> , 2018 , 28, 1802011	15.6	93
133	Insight into Electrocatalysts as Co-catalysts in Efficient Photocatalytic Hydrogen Evolution. <i>ACS Catalysis</i> , 2016 , 6, 4253-4257	13.1	92
132	Synthetic paramontroseite VO ₂ with good aqueous lithium-ion battery performance. <i>Chemical Communications</i> , 2008 , 3891-3	5.8	90
131	New-phase VO ₂ micro/nanostructures: investigation of phase transformation and magnetic property. <i>New Journal of Chemistry</i> , 2012 , 36, 619-625	3.6	89
130	Direct hydrothermal synthesis of monoclinic VO ₂ (M) single-domain nanorods on large scale displaying magnetocaloric effect. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4509		88
129	Vibronic Superexchange in Double Perovskite Electrocatalyst for Efficient Electrocatalytic Oxygen Evolution. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11165-11169	16.4	87

128	Fabrication of Micrometer-Scaled Hierarchical Tubular Structures of CuS Assembled by Nanoflake-built Microspheres Using an In Situ Formed Cu(I) Complex as a Self-Sacrificed Template. <i>Crystal Growth and Design</i> , 2007 , 7, 1256-1261	3.5	83
127	Acid-Assisted Exfoliation toward Metallic Sub-nanopore TaS Monolayer with High Volumetric Capacitance. <i>Journal of the American Chemical Society</i> , 2018 , 140, 493-498	16.4	83
126	Shape evolution of new-phased lepidocrocite VOOH from single-shelled to double-shelled hollow nanospheres on the basis of programmed reaction-temperature strategy. <i>Inorganic Chemistry</i> , 2009 , 48, 6044-54	5.1	81
125	Synthetic loosely packed monoclinic BiVO(4) nanoellipsoids with novel multiresponses to visible light, trace gas and temperature. <i>Chemical Communications</i> , 2009 , 4542-4	5.8	80
124	Modulation of Metal and Insulator States in 2D Ferromagnetic VS by van der Waals Interaction Engineering. <i>Advanced Materials</i> , 2017 , 29, 1700715	24	78
123	Hexagonal Cu ₂ SnS ₃ with metallic character: Another category of conducting sulfides. <i>Applied Physics Letters</i> , 2007 , 91, 143104	3.4	77
122	Very Large-Sized Transition Metal Dichalcogenides Monolayers from Fast Exfoliation by Manual Shaking. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9019-9025	16.4	75
121	New vanadium oxide nanostructures: controlled synthesis and their smart electrical switching properties. <i>Advanced Materials</i> , 2010 , 22, 1972-6	24	75
120	Ultrathin nanosheets of ferropyhyte: a new two-dimensional material with robust ferromagnetic behavior. <i>Chemical Science</i> , 2014 , 5, 2251-2255	9.4	72
119	High-Density Planar-like Fe ₂ N ₆ Structure Catalyzes Efficient Oxygen Reduction. <i>Matter</i> , 2020 , 3, 509-521	12.7	71
118	Signature of coexistence of superconductivity and ferromagnetism in two-dimensional NbSe ₂ triggered by surface molecular adsorption. <i>Nature Communications</i> , 2016 , 7, 11210	17.4	68
117	Large-scale synthesis of titanate and anatase tubular hierarchitectures. <i>Small</i> , 2007 , 3, 1518-22	11	68
116	Ultrahigh Infrared Photoresponse from Core-Shell Single-Domain-VO ₂ /V ₂ O ₅ Heterostructure in Nanobeam. <i>Advanced Functional Materials</i> , 2014 , 24, 1821-1830	15.6	66
115	Highly ordered lamellar V ₂ O ₃ -based hybrid nanorods towards superior aqueous lithium-ion battery performance. <i>Journal of Power Sources</i> , 2011 , 196, 8644-8650	8.9	63
114	A novel approach to carbon hollow spheres and vessels from CCl ₄ at low temperatures. <i>Chemical Communications</i> , 2003 , 904-5	5.8	63
113	Spatially-confined lithiation-delithiation in highly dense nanocomposite anodes towards advanced lithium-ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 1471-1479	35.4	62
112	New-phased metastable V(2) O(3) porous urchinlike micronanostructures: facile synthesis and application in aqueous lithium ion batteries. <i>Chemistry - A European Journal</i> , 2011 , 17, 384-91	4.8	62
111	Necklace-like hollow carbon nanospheres from the pentagon-including reactants: synthesis and electrochemical properties. <i>Inorganic Chemistry</i> , 2006 , 45, 8543-50	5.1	61

110	New aspects of size-dependent metal-insulator transition in synthetic single-domain monoclinic vanadium dioxide nanocrystals. <i>Nanoscale</i> , 2011 , 3, 4394-401	7.7	60
109	Double-Exchange Effect in Two-Dimensional MnO Nanomaterials. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5242-5248	16.4	58
108	Hydrogen dangling bonds induce ferromagnetism in two-dimensional metal-free graphitic-CN nanosheets. <i>Chemical Science</i> , 2015 , 6, 283-287	9.4	56
107	A Bifunctional Hybrid Electrocatalyst for Oxygen Reduction and Evolution: Cobalt Oxide Nanoparticles Strongly Coupled to B,N-Decorated Graphene. <i>Angewandte Chemie</i> , 2017 , 129, 7227-7231	3.6	55
106	Atomically Thin Two-Dimensional Solids: An Emerging Platform for CO ₂ Electroreduction. <i>ACS Energy Letters</i> , 2018 , 3, 624-633	20.1	55
105	Surface Engineering Protocol To Obtain an Atomically Dispersed Pt/CeO ₂ Catalyst with High Activity and Stability for CO Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14054-14062	8.3	54
104	High Phase Purity of Large-Sized 1T'-MoS Monolayers with 2D Superconductivity. <i>Advanced Materials</i> , 2019 , 31, e1900568	24	53
103	Half-Metallic Behavior in 2D Transition Metal Dichalcogenides Nanosheets by Dual-Native-Defects Engineering. <i>Advanced Materials</i> , 2017 , 29, 1703123	24	53
102	Ambient rutile VO ₂ (R) hollow hierarchitectures with rich grain boundaries from new-state nsutite-type VO ₂ , displaying enhanced hydrogen adsorption behavior. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4810-6	3.6	53
101	Structural Transformation of Heterogeneous Materials for Electrocatalytic Oxygen Evolution Reaction. <i>Chemical Reviews</i> , 2021 , 121, 13174-13212	68.1	51
100	Direct confined-space combustion forming monoclinic vanadium dioxides. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 134-7	16.4	50
99	From polymer-metal complex framework to 3D architectures: growth, characterization and formation mechanism of micrometer-sized NiS. <i>New Journal of Chemistry</i> , 2003 , 27, 1331-1335	3.6	50
98	Interface Engineering in Two-Dimensional Heterostructures: Towards an Advanced Catalyst for Ullmann Couplings. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 1704-9	16.4	50
97	Spherical CoS ₂ @carbon core-shell nanoparticles: one-pot synthesis and Li storage property. <i>Nanotechnology</i> , 2008 , 19, 075602	3.4	49
96	Strong-Coupled Cobalt Borate Nanosheets/Graphene Hybrid as Electrocatalyst for Water Oxidation Under Both Alkaline and Neutral Conditions. <i>Angewandte Chemie</i> , 2016 , 128, 2534-2538	3.6	49
95	Two-Dimensional Tellurium Nanosheets Exhibiting an Anomalous Switchable Photoresponse with Thickness Dependence. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13533-13537	16.4	47
94	The Hydric Effect in Inorganic Nanomaterials for Nanoelectronics and Energy Applications. <i>Advanced Materials</i> , 2015 , 27, 3850-67	24	47
93	Enhanced oxygen evolution reaction of metallic nickel phosphide nanosheets by surface modification. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 1021-1027	6.8	45

92	The synergy between atomically dispersed Pd and cerium oxide for enhanced catalytic properties. <i>Nanoscale</i> , 2017 , 9, 6643-6648	7.7	43
91	Environmentally friendly gamma-MnO ₂ hexagon-based nanoarchitectures: structural understanding and their energy-saving applications. <i>Chemistry - A European Journal</i> , 2009 , 15, 492-500	4.8	42
90	Ultrafast Solid-State Transformation Pathway from New-Phased Goethite VOOH to Paramontroseite VO ₂ to Rutile VO ₂ (R). <i>Journal of Physical Chemistry C</i> , 2011 , 115, 791-799	3.8	41
89	Controlling phase and morphology of inorganic nanostructures originated from the internal crystal structure. <i>Chemical Communications</i> , 2009 , 5943-57	5.8	41
88	Dual Modulation via Electrochemical Reduction Activation on Electrocatalysts for Enhanced Oxygen Evolution Reaction. <i>ACS Energy Letters</i> , 2019 , 4, 423-429	20.1	41
87	Recent Advances on the Modulation of Electrocatalysts Based on Transition Metal Nitrides for the Rechargeable Zn-Air Battery 2020 , 2, 1423-1434		40
86	Nanopore Confinement of Electrocatalysts Optimizing Triple Transport for an Ultrahigh-Power-Density Zinc-Air Fuel Cell with Robust Stability. <i>Advanced Materials</i> , 2020 , 32, e2003251 ²⁴		38
85	Molecule-Confined Engineering toward Superconductivity and Ferromagnetism in Two-Dimensional Superlattice. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16398-16404	16.4	36
84	Regulating the electrical behaviors of 2D inorganic nanomaterials for energy applications. <i>Small</i> , 2015 , 11, 654-66	11	36
83	Synthetic haggite V(4)O(6)(OH)(4) nanobelts: oxyhydroxide as a new catalog of smart electrical switch materials. <i>Journal of the American Chemical Society</i> , 2009 , 131, 7218-9	16.4	36
82	Design of nanoarchitected electrode materials applied in new-generation rechargeable lithium ion batteries. <i>Dalton Transactions</i> , 2007 , 5235-40	4.3	35
81	C-oriented and {010} facets exposed BiVO ₄ nanowall films: template-free fabrication and their enhanced photoelectrochemical properties. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 2515-23	4.5	34
80	Large negative magnetoresistance induced by anionic solid solutions in two-dimensional spin-frustrated transition metal chalcogenides. <i>Physical Review Letters</i> , 2014 , 113, 157202	7.4	33
79	Metallic mesocrystal nanosheets of vanadium nitride for high-performance all-solid-state pseudocapacitors. <i>Nano Research</i> , 2015 , 8, 193-200	10	32
78	Indium nitride from indium iodide at low temperatures: synthesis and their optical properties. <i>New Journal of Chemistry</i> , 2005 , 29, 1610	3.6	31
77	Selected-control solution-phase route to multiple-dendritic and cuboidal structures of PbSe. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 56-61	3.3	31
76	Room-Temperature Ferromagnetic Silver Vanadium Oxide (Ag _{1.2} V ₃ O ₈): A Magnetic Semiconductor Nanoring Structure. <i>Advanced Functional Materials</i> , 2010 , 20, 3666-3672	15.6	30
75	Engineering the electronic structure of two-dimensional subnanopore nanosheets using molecular titanium-oxide incorporation for enhanced photocatalytic activity. <i>Chemical Science</i> , 2016 , 7, 1462-1467	9.4	29

74	Highly efficient photothermal effect by atomic-thickness confinement in two-dimensional ZrNCl nanosheets. <i>ACS Nano</i> , 2015 , 9, 1683-91	16.7	29
73	Highly depressed temperature-induced metal-insulator transition in synthetic monodisperse 10-nm V ₂ O ₃ pseudocubes enclosed by {012} facets. <i>Nanoscale</i> , 2011 , 3, 2609-14	7.7	29
72	Surface Nitrogen-Injection Engineering for High Formation Rate of CO Reduction to Formate. <i>Nano Letters</i> , 2020 , 20, 6097-6103	11.5	28
71	Imaging metal-like monoclinic phase stabilized by surface coordination effect in vanadium dioxide nanobeam. <i>Nature Communications</i> , 2017 , 8, 15561	17.4	27
70	Facile solvent-free synthesis of pure-phased AlN nanowhiskers at a low temperature. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 3522-3528	3.3	27
69	Metallic Nickel Hydroxide Nanosheets Give Superior Electrocatalytic Oxidation of Urea for Fuel Cells. <i>Angewandte Chemie</i> , 2016 , 128, 12653-12657	3.6	26
68	Disorder Enhanced Superconductivity toward TaS Monolayer. <i>ACS Nano</i> , 2018 , 12, 9461-9466	16.7	25
67	Solid-liquid phase transition induced electrocatalytic switching from hydrogen evolution to highly selective CO ₂ reduction. <i>Nature Catalysis</i> , 2021 , 4, 202-211	36.5	25
66	Hydrogen Treatment for Superparamagnetic VO ₂ Nanowires with Large Room-Temperature Magnetoresistance. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8018-22	16.4	25
65	Surface-adsorbed ions on TiO ₂ nanosheets for selective photocatalytic CO ₂ reduction. <i>Nano Research</i> , 2018 , 11, 3362-3370	10	24
64	Complexing-reagent assisted synthesis of β -Fe and β -Fe ₂ O ₃ nanowires under mild conditions. <i>New Journal of Chemistry</i> , 2003 , 27, 588	3.6	24
63	First Experimental Identification of BiVO ₄ ·4H ₂ O and Its Evolution Mechanism to Final Monoclinic BiVO ₄ . <i>Crystal Growth and Design</i> , 2010 , 10, 602-607	3.5	23
62	Construction of PbSe Hierarchical Superstructures via an Alkaline Etching Method. <i>Crystal Growth and Design</i> , 2008 , 8, 2933-2937	3.5	22
61	Manganous oxide nanoparticles encapsulated in few-layer carbon as an efficient electrocatalyst for oxygen reduction in alkaline media. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11775-11781	13	20
60	Tailoring Electronic Structure of Atomically Dispersed Metal-NS ₁ Active Sites for Highly Efficient Oxygen Reduction Catalysis 2019 , 1, 139-146		19
59	In situ unravelling structural modulation across the charge-density-wave transition in vanadium disulfide. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 13333-9	3.6	19
58	Highly entangled K _{0.5} V ₂ O ₅ superlong nanobelt membranes for flexible nonvolatile memory devices. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18214		18
57	Sonochemical synthesis of nanostructured VOPO ₄ · 2H ₂ O/carbon nanotube composites with improved lithium ion battery performance. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 417-427	2.3	18

56	Macroscaled mesoporous calcium carbonate tetragonal prisms: top-down solid-phase fabrication and applications of phase-change material support matrices. <i>CrystEngComm</i> , 2010 , 12, 3571	3.3	17
55	Facile synthesis and optical property of SnO ₂ flower-like architectures. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 1065-1069	2.3	17
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