Changzheng Wu

List of Publications by Year
in descending order

200 papers	27,485 citations	4955 84 h-index	5677 162 g-index
218 all docs	218 docs citations	218 times ranked	26990 citing authors

#	Article	IF	Citations
1	Singleâ€Atom Pt as Coâ€Catalyst for Enhanced Photocatalytic H₂ Evolution. Advanced Materials, 2016, 28, 2427-2431.	11.1	1,156
2	Metallic Few-Layered VS₂ Ultrathin Nanosheets: High Two-Dimensional Conductivity for In-Plane Supercapacitors. Journal of the American Chemical Society, 2011, 133, 17832-17838.	6.6	1,014
3	Metallic Nickel Nitride Nanosheets Realizing Enhanced Electrochemical Water Oxidation. Journal of the American Chemical Society, 2015, 137, 4119-4125.	6.6	1,004
4	Two dimensional nanomaterials for flexible supercapacitors. Chemical Society Reviews, 2014, 43, 3303.	18.7	978
5	Atomically Dispersed Ironâ€"Nitrogen Species as Electrocatalysts for Bifunctional Oxygen Evolution and Reduction Reactions. Angewandte Chemie - International Edition, 2017, 56, 610-614.	7.2	950
6	Ultrathin Two-Dimensional MnO₂/Graphene Hybrid Nanostructures for High-Performance, Flexible Planar Supercapacitors. Nano Letters, 2013, 13, 2151-2157.	4.5	818
7	Exclusive Niâ€"N₄ Sites Realize Near-Unity CO Selectivity for Electrochemical CO₂ Reduction. Journal of the American Chemical Society, 2017, 139, 14889-14892.	6.6	725
8	Metallic Co₄N Porous Nanowire Arrays Activated by Surface Oxidation as Electrocatalysts for the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2015, 54, 14710-14714.	7.2	684
9	Synthesis of Hematite (Î±-Fe2O3) Nanorods:Â Diameter-Size and Shape Effects on Their Applications in Magnetism, Lithium Ion Battery, and Gas Sensors. Journal of Physical Chemistry B, 2006, 110, 17806-17812.	1.2	605
10	3D Nitrogenâ€Anionâ€Decorated Nickel Sulfides for Highly Efficient Overall Water Splitting. Advanced Materials, 2017, 29, 1701584.	11.1	478
11	Fabrication of flexible and freestanding zinc chalcogenide single layers. Nature Communications, 2012, 3, 1057.	5.8	470
12	Facile one step method realizing scalable production of g-C₃N₄nanosheets and study of their photocatalytic H₂evolution activity. Journal of Materials Chemistry A, 2014, 2, 18924-18928.	5.2	405
13	Design of vanadium oxide structures with controllable electrical properties for energy applications. Chemical Society Reviews, 2013, 42, 5157.	18.7	401
14	A Bifunctional Hybrid Electrocatalyst for Oxygen Reduction and Evolution: Cobalt Oxide Nanoparticles Strongly Coupled to B,Nâ€Decorated Graphene. Angewandte Chemie - International Edition, 2017, 56, 7121-7125.	7.2	395
15	Strongâ€Coupled Cobalt Borate Nanosheets/Graphene Hybrid as Electrocatalyst for Water Oxidation Under Both Alkaline and Neutral Conditions. Angewandte Chemie - International Edition, 2016, 55, 2488-2492.	7.2	391
16	A zwitterionic gel electrolyte for efficient solid-state supercapacitors. Nature Communications, 2016, 7, 11782.	5.8	374
17	Oxygen Vacancies Confined in Nickel Molybdenum Oxide Porous Nanosheets for Promoted Electrocatalytic Urea Oxidation. ACS Catalysis, 2018, 8, 1-7.	5.5	372
18	Giant Moisture Responsiveness of VS₂ Ultrathin Nanosheets for Novel Touchless Positioning Interface. Advanced Materials, 2012, 24, 1969-1974.	11.1	364

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19	Two-dimensional vanadyl phosphate ultrathin nanosheets for high energy density and flexible pseudocapacitors. Nature Communications, 2013, 4, 2431.	5.8	356
20	Metallic Nickel Hydroxide Nanosheets Give Superior Electrocatalytic Oxidation of Urea for Fuel Cells. Angewandte Chemie - International Edition, 2016, 55, 12465-12469.	7.2	356
21	Surface/interface nanoengineering for rechargeable Znâ€“air batteries. Energy and Environmental Science, 2020, 13, 1132-1153.	15.6	344
22	High-purity pyrrole-type FeN₄ sites as a superior oxygen reduction electrocatalyst. Energy and Environmental Science, 2020, 13, 111-118.	15.6	327
23	Phaseâ€Transformation Engineering in Cobalt Diselenide Realizing Enhanced Catalytic Activity for Hydrogen Evolution in an Alkaline Medium. Advanced Materials, 2016, 28, 7527-7532.	11.1	307
24	Surface chemical-modification for engineering the intrinsic physical properties of inorganic two-dimensional nanomaterials. Chemical Society Reviews, 2015, 44, 637-646.	18.7	302
25	Atomically Thick Bismuth Selenide Freestanding Single Layers Achieving Enhanced Thermoelectric Energy Harvesting. Journal of the American Chemical Society, 2012, 134, 20294-20297.	6.6	279
26	Free-Standing Two-Dimensional Ru Nanosheets with High Activity toward Water Splitting. ACS Catalysis, 2016, 6, 1487-1492.	5.5	276
27	Surface Immobilization of Transition Metal Ions on Nitrogenâ€Doped Graphene Realizing Highâ€Efficient and Selective CO₂ Reduction. Advanced Materials, 2018, 30, e1706617.	11.1	276
28	Hydrogen-Incorporated TiS₂ Ultrathin Nanosheets with Ultrahigh Conductivity for Stamp-Transferrable Electrodes. Journal of the American Chemical Society, 2013, 135, 5144-5151.	6.6	273
29	Structural Transformation of Heterogeneous Materials for Electrocatalytic Oxygen Evolution Reaction. Chemical Reviews, 2021, 121, 13174-13212.	23.0	262
30	Semimetallic molybdenum disulfide ultrathin nanosheets as an efficient electrocatalyst for hydrogen evolution. Nanoscale, 2014, 6, 8359-8367.	2.8	248
31	Cobalt nitrides as a class of metallic electrocatalysts for the oxygen evolution reaction. Inorganic Chemistry Frontiers, 2016, 3, 236-242.	3.0	243
32	Ultrathin Nanosheets of Vanadium Diselenide: A Metallic Twoâ€Dimensional Material with Ferromagnetic Chargeâ€Densityâ€Wave Behavior. Angewandte Chemie - International Edition, 2013, 52, 10477-10481.	7.2	242
33	Interfacial engineering of cobalt sulfide/graphene hybrids for highly efficient ammonia electrosynthesis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6635-6640.	3.3	242
34	Engineering the Electronic State of a Perovskite Electrocatalyst for Synergistically Enhanced Oxygen Evolution Reaction. Advanced Materials, 2015, 27, 5989-5994.	11.1	236
35	Metallic Nickel Hydroxide Nanosheets Give Superior Electrocatalytic Oxidation of Urea for Fuel Cells. Angewandte Chemie, 2016, 128, 12653-12657.	1.6	233
36	Ultrathin Cobalt Oxide Layers as Electrocatalysts for Highâ€Performance Flexible Znâ€“Air Batteries. Advanced Materials, 2019, 31, e1807468.	11.1	227

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37	Spin-State Regulation of Perovskite Cobaltite to Realize Enhanced Oxygen Evolution Activity. CheM, 2017, 3, 812-821.	5.8	225
38	Regulating Waterâ€Reduction Kinetics in Cobalt Phosphide for Enhancing HER Catalytic Activity in Alkaline Solution. Advanced Materials, 2017, 29, 1606980.	11.1	220
39	Controllable Surface Reorganization Engineering on Cobalt Phosphide Nanowire Arrays for Efficient Alkaline Hydrogen Evolution Reaction. Advanced Materials, 2018, 30, 1703322.	11.1	215
40	Synthesis of New-Phased VOOH Hollow â€œDandelionsâ€• and Their Application in Lithium-Ion Batteries. Advanced Materials, 2006, 18, 1727-1732.	11.1	213
41	Unraveling Metal-insulator Transition Mechanism of VO2Triggered by Tungsten Doping. Scientific Reports, 2012, 2, 466.	1.6	209
42	Promoting Active Species Generation by Electrochemical Activation in Alkaline Media for Efficient Electrocatalytic Oxygen Evolution in Neutral Media. Nano Letters, 2017, 17, 578-583.	4.5	191
43	Surface/Interfacial Engineering of Inorganic Low-Dimensional Electrode Materials for Electrocatalysis. Accounts of Chemical Research, 2018, 51, 2857-2866.	7.6	190
44	High-Density Planar-like Fe2N6 Structure Catalyzes Efficient Oxygen Reduction. Matter, 2020, 3, 509-521.	5.0	184
45	Promising vanadium oxide and hydroxide nanostructures: from energy storage to energy saving. Energy and Environmental Science, 2010, 3, 1191.	15.6	182
46	Dynamic Migration of Surface Fluorine Anions on Cobaltâ€Based Materials to Achieve Enhanced Oxygen Evolution Catalysis. Angewandte Chemie - International Edition, 2018, 57, 15471-15475.	7.2	178
47	In situ micelleâ€“templateâ€“interface reaction route to CdS nanotubes and nanowires. Journal of Materials Chemistry, 2002, 12, 3712-3716.	6.7	176
48	Molecular co-catalyst accelerating hole transfer for enhanced photocatalytic H2 evolution. Nature Communications, 2015, 6, 8647.	5.8	172
49	Understanding the Nature of the Kinetic Process in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>VO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>Metal-Insulator Transition. Physical Review Letters, 2010, 105, 226405.	2.9	171
50	Understanding Structure-Dependent Catalytic Performance of Nickel Selenides for Electrochemical Water Oxidation. ACS Catalysis, 2017, 7, 310-315.	5.5	155
51	Nearly Monodisperse CuInS₂ Hierarchical Microarchitectures for Photocatalytic H₂ Evolution under Visible Light. Inorganic Chemistry, 2009, 48, 4003-4009.	1.9	153
52	Enhanced Catalytic Activity in Nitrogen-Anion Modified Metallic Cobalt Disulfide Porous Nanowire Arrays for Hydrogen Evolution. ACS Catalysis, 2017, 7, 7405-7411.	5.5	152
53	Growth of Well-Aligned -MnO2 Monocrystalline Nanowires through a Coordination-Polymer-Precursor Route. Chemistry - A European Journal, 2003, 9, 1645-1651.	1.7	149
54	Dual Electricalâ€Behavior Regulation on Electrocatalysts Realizing Enhanced Electrochemical Water Oxidation. Advanced Materials, 2016, 28, 3326-3332.	11.1	145

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55	Hydrogen-Incorporation Stabilization of Metallic VO₂(R) Phase to Room Temperature, Displaying Promising Low-Temperature Thermoelectric Effect. Journal of the American Chemical Society, 2011, 133, 13798-13801.	6.6	144
56	Highly Polarized and Fast Photoresponse of Black Phosphorusâ€InSe Vertical pâ€“n Heterojunctions. Advanced Functional Materials, 2018, 28, 1802011.	7.8	142
57	Atomically Dispersed Ironâ€“Nitrogen Species as Electrocatalysts for Bifunctional Oxygen Evolution and Reduction Reactions. Angewandte Chemie, 2017, 129, 625-629.	1.6	140
58	Vibronic Superexchange in Double Perovskite Electrocatalyst for Efficient Electrocatalytic Oxygen Evolution. Journal of the American Chemical Society, 2018, 140, 11165-11169.	6.6	138
59	Novel Flowerlike Metastable Vanadium Dioxide (B) Micronanostructures: Facile Synthesis and Application in Aqueous Lithium Ion Batteries. Journal of Physical Chemistry C, 2009, 113, 15058-15067.	1.5	136
60	Selective synthesis of cobalt hydroxide carbonate 3D architectures and their thermal conversion to cobalt spinel 3D superstructures. Materials Chemistry and Physics, 2006, 99, 479-486.	2.0	131
61	MoS2 hierarchical hollow cubic cages assembled by bilayers: one-step synthesis and their electrochemical hydrogen storage properties. Chemical Communications, 2006, , 4738.	2.2	129
62	Facile Synthesis of SnO2 Hollow Nanospheres and Applications in Gas Sensors and Electrocatalysts. European Journal of Inorganic Chemistry, 2006, 2006, 1643-1648.	1.0	126
63	Graphene/Sulfur Hybrid Nanosheets from a Spaceâ€Confined â€œSaunaâ€•Reaction for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Materials, 2015, 27, 5936-5942.	11.1	124
64	Insight into Electrocatalysts as Co-catalysts in Efficient Photocatalytic Hydrogen Evolution. ACS Catalysis, 2016, 6, 4253-4257.	5.5	120
65	Selected-Control Hydrothermal Synthesis of Î³-ÎœnO23D Nanostructures. Journal of Physical Chemistry B, 2003, 107, 13583-13587.	1.2	117
66	From Complex Chains to 1D Metal Oxides:Â A Novel Strategy to Cu2O Nanowires. Journal of Physical Chemistry B, 2003, 107, 3697-3702.	1.2	116
67	Visible Light Responsive Perovskite BiFeO₃ Pills and Rods with Dominant {111}_c Facets. Crystal Growth and Design, 2011, 11, 1049-1053.	1.4	115
68	Solutionâ€Liquidâ€Solid Synthesis of Hexagonal Nickel Selenide Nanowire Arrays with a Nonmetal Catalyst. Angewandte Chemie - International Edition, 2016, 55, 1710-1713.	7.2	115
69	Acid-Assisted Exfoliation toward Metallic Sub-nanopore TaS₂ Monolayer with High Volumetric Capacitance. Journal of the American Chemical Society, 2018, 140, 493-498.	6.6	112
70	Modulation of Metal and Insulator States in 2D Ferromagnetic VS₂ by van der Waals Interaction Engineering. Advanced Materials, 2017, 29, 1700715.	11.1	112
71	Large-area graphene realizing ultrasensitive photothermal actuator with high transparency: new prototype robotic motions under infrared-light stimuli. Journal of Materials Chemistry, 2011, 21, 18584.	6.7	111
72	Recent Advances on the Modulation of Electrocatalysts Based on Transition Metal Nitrides for the Rechargeable Zn-Air Battery. , 2020, 2, 1423-1434.		111

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73	Aqueous synthesis of mesostructured BiVO4 quantum tubes with excellent dual response to visible light and temperature. Nano Research, 2010, 3, 620-631.	5.8	109
74	Very Large-Sized Transition Metal Dichalcogenides Monolayers from Fast Exfoliation by Manual Shaking. Journal of the American Chemical Society, 2017, 139, 9019-9025.	6.6	109
75	New-phase VO2 micro/nanostructures: investigation of phase transformation and magnetic property. New Journal of Chemistry, 2012, 36, 619-625.	1.4	108
76	Direct hydrothermal synthesis of monoclinic VO2(M) single-domain nanorods on large scale displaying magnetocaloric effect. Journal of Materials Chemistry, 2011, 21, 4509.	6.7	106
77	Nanopore Confinement of Electrocatalysts Optimizing Triple Transport for an Ultrahighâ€Powerâ€Density Zincâ€“Air Fuel Cell with Robust Stability. Advanced Materials, 2020, 32, e2003251.	11.1	104
78	Synthetic paramontroseite VO2 with good aqueous lithiumâ€“ion battery performance. Chemical Communications, 2008, , 3891.	2.2	102
79	Surface Engineering Protocol To Obtain an Atomically Dispersed Pt/CeO₂ Catalyst with High Activity and Stability for CO Oxidation. ACS Sustainable Chemistry and Engineering, 2018, 6, 14054-14062.	3.2	102
80	Double-Exchange Effect in Two-Dimensional MnO₂ Nanomaterials. Journal of the American Chemical Society, 2017, 139, 5242-5248.	6.6	94
81	Shape Evolution of New-Phased Lepidocrocite VOOH from Single-Shelled to Double-Shelled Hollow Nanospheres on the Basis of Programmed Reaction-Temperature Strategy. Inorganic Chemistry, 2009, 48, 6044-6054.	1.9	92
82	Solidâ€“liquid phase transition induced electrocatalytic switching from hydrogen evolution to highly selective CO2 reduction. Nature Catalysis, 2021, 4, 202-211.	16.1	89
83	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. Crystal Growth and Design, 2007, 7, 1256-1261.	1.4	88
84	High Phase Purity of Largeâ€Sized 1Tâ€²â€MoS₂ Monolayers with 2D Superconductivity. Advanced Materials, 2019, 31, e1900568.	11.1	88
85	Ultrahigh Infrared Photoresponse from Coreâ€“Shell Singleâ€Domainâ€VO₂/V₂O₅ Heterostructure in Nanobeam. Advanced Functional Materials, 2014, 24, 1821-1830.	7.8	87
86	Synthetic loosely packed monoclinic BiVO4 nanoellipsoids with novel multiresponses to visible light, trace gas and temperature. Chemical Communications, 2009, , 4542.	2.2	86
87	Subsize Pt-based intermetallic compound enables long-term cyclic mass activity for fuel-cell oxygen reduction. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	86
88	Hexagonal Cu2SnS3 with metallic character: Another category of conducting sulfides. Applied Physics Letters, 2007, 91, .	1.5	85
89	Ultrathin nanosheets of feroxyhyte: a new two-dimensional material with robust ferromagnetic behavior. Chemical Science, 2014, 5, 2251-2255.	3.7	85
90	Signature of coexistence of superconductivity and ferromagnetism in two-dimensional NbSe2 triggered by surface molecular adsorption. Nature Communications, 2016, 7, 11210.	5.8	85

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91	New Vanadium Oxide Nanostructures: Controlled Synthesis and Their Smart Electrical Switching Properties. Advanced Materials, 2010, 22, 1972-1976.	11.1	81
92	Surface Nitrogen-Injection Engineering for High Formation Rate of CO₂ Reduction to Formate. Nano Letters, 2020, 20, 6097-6103.	4.5	71
93	Highly ordered lamellar V2O3-based hybrid nanorods towards superior aqueous lithium-ion battery performance. Journal of Power Sources, 2011, 196, 8644-8650.	4.0	70
94	Largeâ€Scale Synthesis of Titanate and Anatase Tubular Hierarchitectures. Small, 2007, 3, 1518-1522.	5.2	69
95	Spatially-confined lithiationâ€“delithiation in highly dense nanocomposite anodes towards advanced lithium-ion batteries. Energy and Environmental Science, 2015, 8, 1471-1479.	15.6	69
96	Atomically Thin Two-Dimensional Solids: An Emerging Platform for CO₂ Electroreduction. ACS Energy Letters, 2018, 3, 624-633.	8.8	68
97	New aspects of size-dependent metal-insulator transition in synthetic single-domain monoclinic vanadium dioxide nanocrystals. Nanoscale, 2011, 3, 4394.	2.8	67
98	Twoâ€Dimensional Tellurium Nanosheets Exhibiting an Anomalous Switchable Photoresponse with Thickness Dependence. Angewandte Chemie - International Edition, 2018, 57, 13533-13537.	7.2	67
99	A novel approach to carbon hollow spheres and vessels from CCl4 at low temperaturesElectronic supplementary information (ESI) available: mass and GC spectra. See http://www.rsc.org/suppdata/cc/b2/b211996j/. Chemical Communications, 2003, , 904-905.	2.2	66
100	Necklace-like Hollow Carbon Nanospheres from the Pentagon-Including Reactants:Â Synthesis and Electrochemical Properties. Inorganic Chemistry, 2006, 45, 8543-8550.	1.9	66
101	Newâ€Phased Metastable V₂O₃ Porous Urchinlike Micronanostructures: Facile Synthesis and Application in Aqueous Lithium Ion Batteries. Chemistry - A European Journal, 2011, 17, 384-391.	1.7	66
102	Ambient rutile VO2(R) hollow hierarchitectures with rich grain boundaries from new-state nsutite-type VO2, displaying enhanced hydrogen adsorption behavior. Physical Chemistry Chemical Physics, 2012, 14, 4810.	1.3	65
103	Interface Engineering in Twoâ€Dimensional Heterostructures: Towards an Advanced Catalyst for Ullmann Couplings. Angewandte Chemie - International Edition, 2016, 55, 1704-1709.	7.2	65
104	Halfâ€Metallic Behavior in 2D Transition Metal Dichalcogenides Nanosheets by Dualâ€Nativeâ€Defects Engineering. Advanced Materials, 2017, 29, 1703123.	11.1	65
105	The synergy between atomically dispersed Pd and cerium oxide for enhanced catalytic properties. Nanoscale, 2017, 9, 6643-6648.	2.8	63
106	Hydrogen dangling bonds induce ferromagnetism in two-dimensional metal-free graphitic-C₃N₄ nanosheets. Chemical Science, 2015, 6, 283-287.	3.7	62
107	Ferromagnetism in 2D Vanadium Diselenide. ACS Nano, 2021, 15, 16236-16241.	7.3	61
108	A Bifunctional Hybrid Electrocatalyst for Oxygen Reduction and Evolution: Cobalt Oxide Nanoparticles Strongly Coupled to B,Nâ€Decorated Graphene. Angewandte Chemie, 2017, 129, 7227-7231.	1.6	59

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109	Enhanced oxygen evolution reaction of metallic nickel phosphide nanosheets by surface modification. Inorganic Chemistry Frontiers, 2016, 3, 1021-1027.	3.0	58
110	The Hydric Effect in Inorganic Nanomaterials for Nanoelectronics and Energy Applications. Advanced Materials, 2015, 27, 3850-3867.	11.1	55
111	Dual Modulation via Electrochemical Reduction Activiation on Electrocatalysts for Enhanced Oxygen Evolution Reaction. ACS Energy Letters, 2019, 4, 423-429.	8.8	55
112	Spherical CoS₂<i>@</i>carbon coreâ€“shell nanoparticles: one-pot synthesis and Li storage property. Nanotechnology, 2008, 19, 075602.	1.3	54
113	Molecule-Confined Engineering toward Superconductivity and Ferromagnetism in Two-Dimensional Superlattice. Journal of the American Chemical Society, 2017, 139, 16398-16404.	6.6	54
114	Disorder Enhanced Superconductivity toward TaS₂ Monolayer. ACS Nano, 2018, 12, 9461-9466.	7.3	54
115	Direct Confinedâ€Space Combustion Forming Monoclinic Vanadium Dioxides. Angewandte Chemie - International Edition, 2010, 49, 134-137.	7.2	53
116	Strongâ€Coupled Cobalt Borate Nanosheets/Graphene Hybrid as Electrocatalyst for Water Oxidation Under Both Alkaline and Neutral Conditions. Angewandte Chemie, 2016, 128, 2534-2538.	1.6	52
117	From polymerâ€“metal complex framework to 3D architectures: growth, characterization and formation mechanism of micrometer-sized Î±-NiS. New Journal of Chemistry, 2003, 27, 1331-1335.	1.4	51
118	Metallic mesocrystal nanosheets of vanadium nitride for high-performance all-solid-state pseudocapacitors. Nano Research, 2015, 8, 193-200.	5.8	50
119	Regulating the Electrical Behaviors of 2D Inorganic Nanomaterials for Energy Applications. Small, 2015, 11, 654-666.	5.2	50
120	Stoichiometric two-dimensional non-van der Waals AgCrS2 with superionic behaviour at room temperature. Nature Chemistry, 2021, 13, 1235-1240.	6.6	50
121	Ultrafast Solid-State Transformation Pathway from New-Phased Goethite VOOH to Paramontroseite VO₂ to Rutile VO₂(R). Journal of Physical Chemistry C, 2011, 115, 791-799.	1.5	49
122	Highly Efficient Photothermal Effect by Atomic-Thickness Confinement in Two-Dimensional ZrNCl Nanosheets. ACS Nano, 2015, 9, 1683-1691.	7.3	48
123	Structural Phase Transition of Multilayer VSe₂. ACS Applied Materials & Interfaces, 2020, 12, 25143-25149.	4.0	47
124	Synthetic Haggite V₄O₆(OH)₄ Nanobelts: Oxyhydroxide as a New Catalog of Smart Electrical Switch Materials. Journal of the American Chemical Society, 2009, 131, 7218-7219.	6.6	46
125	Environmentally Friendly Î³â€MnO₂ Hexagonâ€Based Nanoarchitectures: Structural Understanding and Their Energyâ€Saving Applications. Chemistry - A European Journal, 2009, 15, 492-500.	1.7	45
126	Controlling phase and morphology of inorganic nanostructures originated from the internal crystal structure. Chemical Communications, 2009, , 5943.	2.2	44

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127	Surface-adsorbed ions on TiO2 nanosheets for selective photocatalytic CO2 reduction. Nano Research, 2018, 11, 3362-3370.	5.8	44
128	Engineering the electronic structure of two-dimensional subnanopore nanosheets using molecular titanium-oxide incorporation for enhanced photocatalytic activity. Chemical Science, 2016, 7, 1462-1467.	3.7	41
129	Large Negative Magnetoresistance Induced by Anionic Solid Solutions in Two-Dimensional Spin-Frustrated Transition Metal Chalcogenides. Physical Review Letters, 2014, 113, 157202.	2.9	39
130	Hydrogen Treatment for Superparamagnetic VO₂ Nanowires with Large Roomâ€Temperature Magnetoresistance. Angewandte Chemie - International Edition, 2016, 55, 8018-8022.	7.2	37
131	Design of nanoarchitectured electrode materials applied in new-generation rechargeable lithium ion batteries. Dalton Transactions, 2007, , 5235.	1.6	36
132	<i>C</i>â€oriented and {010} Facets Exposed BiVO₄ Nanowall Films: Templateâ€Free Fabrication and their Enhanced Photoelectrochemical Properties. Chemistry - an Asian Journal, 2010, 5, 2515-2523.	1.7	35
133	Tailoring Electronic Structure of Atomically Dispersed Metalâ€“N₃S₁ Active Sites for Highly Efficient Oxygen Reduction Catalysis. , 2019, 1, 139-146.		34
134	Two-Dimensional Hierarchical Feâ€“Nâ€“C Electrocatalyst for Zn-Air Batteries with Ultrahigh Specific Capacity. , 2020, 2, 35-41.		34
135	Indium nitride from indium iodide at low temperatures: synthesis and their optical properties. New Journal of Chemistry, 2005, 29, 1610.	1.4	33
136	Selected-control solution-phase route to multiple-dendritic and cuboidal structures of PbSe. Journal of Solid State Chemistry, 2006, 179, 56-61.	1.4	33
137	Roomâ€Temperature Ferromagnetic Silver Vanadium Oxide (Ag_{1.2}V₃O₈): A Magnetic Semiconductor Nanoring Structure. Advanced Functional Materials, 2010, 20, 3666-3672.	7.8	33
138	Imaging metal-like monoclinic phase stabilized by surface coordination effect in vanadium dioxide nanobeam. Nature Communications, 2017, 8, 15561.	5.8	33
139	Highly depressed temperature-induced metal-insulator transition in synthetic monodisperse 10-nm V2O3 pseudocubes enclosed by {012} facets. Nanoscale, 2011, 3, 2609.	2.8	32
140	Epitaxial Growth of Ultrathin Highly Crystalline Ptâ€“Ni Nanostructure on a Metal Carbide Template for Efficient Oxygen Reduction Reaction. Advanced Materials, 2022, 34, e2109188.	11.1	30
141	Complexing-reagent assisted synthesis of Î±-Fe and Î³-Fe2O3 nanowires under mild conditions. New Journal of Chemistry, 2003, 27, 588.	1.4	27
142	Facile solvent-free synthesis of pure-phased AlN nanowhiskers at a low temperature. Journal of Solid State Chemistry, 2004, 177, 3522-3528.	1.4	27
143	Manganous oxide nanoparticles encapsulated in few-layer carbon as an efficient electrocatalyst for oxygen reduction in alkaline media. Journal of Materials Chemistry A, 2016, 4, 11775-11781.	5.2	27
144	Modulation of pore-size in N, S-codoped carbon/Co9S8 hybrid for a stronger O2 affinity toward rechargable zinc-air battery. Nano Energy, 2022, 92, 106750.	8.2	27

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145	Recent advances in novel aerogels through the hybrid aggregation of inorganic nanomaterials and polymeric fibers for thermal insulation. Aggregate, 2021, 2, e30.	5.2	26
146	First Experimental Identification of BiVO₄Â·0.4H₂O and Its Evolution Mechanism to Final Monoclinic BiVO₄. Crystal Growth and Design, 2010, 10, 602-607.	1.4	25
147	In situ unravelling structural modulation across the charge-density-wave transition in vanadium disulfide. Physical Chemistry Chemical Physics, 2015, 17, 13333-13339.	1.3	24
148	Solution Processing for Lateral Transition-Metal Dichalcogenides Homojunction from Polymorphic Crystal. Journal of the American Chemical Society, 2019, 141, 592-598.	6.6	24
149	Construction of PbSe Hierarchical Superstructures via an Alkaline Etching Method. Crystal Growth and Design, 2008, 8, 2933-2937.	1.4	23
150	Highly entangled K0.5V2O5 superlong nanobelt membranes for flexible nonvolatile memory devices. Journal of Materials Chemistry, 2012, 22, 18214.	6.7	22
151	High-surface-area titanium nitride nanosheets as zinc anode coating for dendrite-free rechargeable aqueous batteries. Science China Materials, 2022, 65, 1771-1778.	3.5	21
152	Macroscaled mesoporous calcium carbonate tetragonal prisms: top-down solid-phase fabrication and applications of phase-change material support matrices. CrystEngComm, 2010, 12, 3571.	1.3	20
153	Optimal coordination-site exposure engineering in porous platinum for outstanding oxygen reduction performance. Chemical Science, 2019, 10, 5589-5595.	3.7	20
154	Sonochemical synthesis of nanostructured VOPO4ÂÂ·Â2H2O/carbon nanotube composites with improved lithium ion battery performance. Journal of Nanoparticle Research, 2010, 12, 417-427.	0.8	19
155	Surface etching induced ultrathin sandwich structure realizing enhanced photocatalytic activity. Science China Chemistry, 2018, 61, 1572-1580.	4.2	19
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