

Xiao Zhang

List of Publications by Year in descending order

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163
papers

19,878
citations

18482

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173
times ranked

24613
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Pd ₃ Sn and PdCuSn Nanorods with L ₂ Phase for Highly Efficient Electrocatalytic Ethanol Oxidation. <i>Advanced Materials</i> , 2022, 34, e2106115.	21.0	65
2	Evaluation of pretreatment effect on lignin extraction from wheat straw by deep eutectic solvent. <i>Bioresource Technology</i> , 2022, 344, 126174.	9.6	31
3	A MnO _x enhanced atomically dispersed iron–nitrogen–carbon catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5981-5989.	10.3	18
4	Recent advances in biomedical applications of 2D nanomaterials with peroxidase-like properties. <i>Advanced Drug Delivery Reviews</i> , 2022, 185, 114269.	13.7	27
5	Evaluation of bio-refinery alternatives to produce sustainable aviation fuels in a sugarcane mill. <i>Fuel</i> , 2022, 321, 123992.	6.4	13
6	Highly stable and tunable peptoid/hemin enzymatic mimetics with natural peroxidase-like activities. <i>Nature Communications</i> , 2022, 13, .	12.8	32
7	Deep Eutectic Solvent-Extracted Lignin as an Efficient Additive for Entirely Biobased Polylactic Acid Composites. <i>ACS Applied Polymer Materials</i> , 2022, 4, 5861-5871.	4.4	13
8	Role of peracetic acid on the disruption of lignin packing structure and its consequence on lignin depolymerisation. <i>Green Chemistry</i> , 2021, 23, 8468-8479.	9.0	11
9	Uncovering the active sites and demonstrating stable catalyst for the cost-effective conversion of ethanol to 1-butanol. <i>Green Chemistry</i> , 2021, 23, 8030-8039.	9.0	7
10	Strategic assessment of sustainable aviation fuel production technologies: Yield improvement and cost reduction opportunities. <i>Biomass and Bioenergy</i> , 2021, 145, 105942.	5.7	44
11	Evaluation of dry corn ethanol bio-refinery concepts for the production of sustainable aviation fuel. <i>Biomass and Bioenergy</i> , 2021, 146, 105937.	5.7	15
12	General Synthesis of Ordered Mesoporous Carbonaceous Hybrid Nanostructures with Molecularly Dispersed Polyoxometallates. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15556-15562.	13.8	13
13	Recent progress on single-atom catalysts for CO ₂ electroreduction. <i>Materials Today</i> , 2021, 48, 95-114.	14.2	63
14	General Synthesis of Ordered Mesoporous Carbonaceous Hybrid Nanostructures with Molecularly Dispersed Polyoxometallates. <i>Angewandte Chemie</i> , 2021, 133, 15684-15690.	2.0	0
15	Structural studies of Myceliophthora Thermophila Laccase in the presence of deep eutectic solvents. <i>Enzyme and Microbial Technology</i> , 2021, 150, 109890.	3.2	15
16	Techno-economic analysis of catalytic hydrothermolysis pathway for jet fuel production. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111516.	16.4	27
17	Dataset for Techno-Economic Analysis of Catalytic Hydrothermolysis Pathway for Jet Fuel Production. <i>Data in Brief</i> , 2021, 39, 107514.	1.0	1
18	Production of Sustainable Aviation Fuels in Petroleum Refineries: Evaluation of New Bio-Refinery Concepts. <i>Frontiers in Energy Research</i> , 2021, 9, .	2.3	6

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19	Depolymerization and Demethylation of Kraft Lignin in Molten Salt Hydrate and Applications as an Antioxidant and Metal Ion Scavenger. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 13568-13577.	5.2	20
20	Confined Synthesis of 2D Nanostructured Materials toward Electrocatalysis. <i>Advanced Energy Materials</i> , 2020, 10, 1900486.	19.5	123
21	VS ₄ -Decorated Carbon Nanotubes for Lithium Storage with Pseudocapacitance Contribution. <i>ChemSusChem</i> , 2020, 13, 1637-1644.	6.8	32
22	Ultra-thin metal-organic framework nanoribbons. <i>National Science Review</i> , 2020, 7, 46-52.	9.5	38
23	Electrochemical sandwich-type thrombin aptasensor based on dual signal amplification strategy of silver nanowires and hollow Au@CeO ₂ . <i>Biosensors and Bioelectronics</i> , 2020, 150, 111846.	10.1	36
24	Enzymatic Oxidation of Lignin: Challenges and Barriers Toward Practical Applications. <i>ChemCatChem</i> , 2020, 12, 401-425.	3.7	62
25	5,10,15,20-Tetrakis(4-carboxylphenyl)porphyrin modified nickel-cobalt layer double hydroxide nanosheets as enhanced photoelectrocatalysts for methanol oxidation under visible-light. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 881-889.	9.4	28
26	Phase-Selective Epitaxial Growth of Heterophase Nanostructures on Unconventional 2H-Pd Nanoparticles. <i>Journal of the American Chemical Society</i> , 2020, 142, 18971-18980.	13.7	111
27	Cleavage of ethers and demethylation of lignin in acidic concentrated lithium bromide (ACLB) solution. <i>Green Chemistry</i> , 2020, 22, 7989-8001.	9.0	43
28	Direct Catalytic Conversion of Ethanol to C ₅₊ Ketones: Role of Pd-Zn Alloy on Catalytic Activity and Stability (<i>Angew. Chem.</i> 34/2020). <i>Angewandte Chemie</i> , 2020, 132, 14802-14802.	2.0	1
29	Deep Eutectic Solvent Extraction of High Purity Lignin from a Corn Stover Hydrolysate. <i>ChemSusChem</i> , 2020, 13, 4678-4690.	6.8	39
30	Flower-like CeO ₂ /CoO ₂ Heterojunctioned Nanocomposites with Enhanced Peroxidase-Mimicking Activity for Cysteine Sensing. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17540-17550.	6.7	28
31	Hydroquinone colorimetric sensing based on platinum deposited on CdS nanorods as peroxidase mimics. <i>Mikrochimica Acta</i> , 2020, 187, 587.	5.0	20
32	Porphyrin-Modified Cobalt Sulfide as a Developed Noble Metal-free Photoelectrocatalyst toward Methanol Oxidation under Visible Light. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26678-26687.	3.1	8
33	N,N-dicarboxymethyl Perylene-diimide modified CeCoO ₃ : Enhanced peroxidase activity, synergetic catalytic mechanism and glutathione colorimetric sensing. <i>Talanta</i> , 2020, 218, 121142.	5.5	21
34	Metal-Free 2(3),9(10),16(17),23(24)-Octamethoxyphthalocyanine-Modified Uniform CoSn(OH) ₆ Nanocubes: Enhanced Peroxidase-like Activity, Catalytic Mechanism, and Fast Colorimetric Sensing for Cholesterol. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9404-9414.	6.7	34
35	Direct Catalytic Conversion of Ethanol to C ₅₊ Ketones: Role of Pd-Zn Alloy on Catalytic Activity and Stability. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14550-14557.	13.8	14
36	Direct Catalytic Conversion of Ethanol to C ₅₊ Ketones: Role of Pd-Zn Alloy on Catalytic Activity and Stability. <i>Angewandte Chemie</i> , 2020, 132, 14658-14665.	2.0	0

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37	Organic-Inorganic Composite Nanorods as an Excellent Mimicking Peroxidases for Colorimetric Detection and Evaluation of Antioxidant. ACS Applied Bio Materials, 2020, 3, 2499-2506.	4.6	10
38	Phase engineering of nanomaterials. Nature Reviews Chemistry, 2020, 4, 243-256.	30.2	438
39	Rapid colorimetric sensing of ascorbic acid based on the excellent peroxidase-like activity of Pt deposited on ZnCo ₂ O ₄ spheres. New Journal of Chemistry, 2020, 44, 12002-12008.	2.8	18
40	Intramolecular Hydrogen Bonding-Based Topology Regulation of Two-Dimensional Covalent Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 13162-13169.	13.7	85
41	Facile fabrication of a NiO/Ag ₃ PO ₄ Z-scheme photocatalyst with enhanced visible-light-driven photocatalytic activity. New Journal of Chemistry, 2020, 44, 12806-12814.	2.8	27
42	Pulp mill integration with alcohol-to-jet conversion technology. Fuel Processing Technology, 2020, 201, 106338.	7.2	18
43	Ruthenium doped Ni ₂ P nanosheet arrays for active hydrogen evolution in neutral and alkaline water. Sustainable Energy and Fuels, 2020, 4, 1883-1890.	4.9	11
44	Synthesis of Palladium-Based Crystalline@Amorphous Core-Shell Nanoplates for Highly Efficient Ethanol Oxidation. Advanced Materials, 2020, 32, e2000482.	21.0	98
45	Selective Epitaxial Growth of Oriented Hierarchical Metal-Organic Framework Heterostructures. Journal of the American Chemical Society, 2020, 142, 8953-8961.	13.7	100
46	Hierarchical Ni(OH) ₂ -MnO ₂ Array as Supercapacitor Electrode with High Capacity. Advanced Materials Interfaces, 2019, 6, 1801470.	3.7	23
47	A simple electrochemical method for conversion of Pt wires to Pt concave icosahedra and nanocubes on carbon paper for electrocatalytic hydrogen evolution. Science China Materials, 2019, 62, 115-121.	6.3	16
48	Catalytic partial oxidation (CPOX) of natural gas and renewable hydrocarbons/oxygenated hydrocarbons-A review. Catalysis Today, 2019, 338, 18-30.	4.4	48
49	Porphyrin functionalized Co(OH) ₂ /GO nanocomposites as an excellent peroxidase mimic for colorimetric biosensing. Analyst, The, 2019, 144, 5284-5291.	3.5	45
50	Si Doped CoO Nanorods as Peroxidase Mimics for Colorimetric Sensing of Reduced Glutathione. ACS Sustainable Chemistry and Engineering, 2019, 7, 13989-13998.	6.7	75
51	Rapid colorimetric determination of dopamine based on the inhibition of the peroxidase mimicking activity of platinum loaded CoSn(OH) ₆ nanocubes. Mikrochimica Acta, 2019, 186, 755.	5.0	29
52	Size-Dependent Phase Transformation of Noble Metal Nanomaterials. Small, 2019, 15, e1903253.	10.0	16
53	Cerium and nitrogen doped CoP nanorod arrays for hydrogen evolution in all pH conditions. Sustainable Energy and Fuels, 2019, 3, 3344-3351.	4.9	9
54	CoFeP hollow cube as advanced electrocatalyst for water oxidation. Inorganic Chemistry Frontiers, 2019, 6, 604-611.	6.0	61

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55	Facile Extraction of Wheat Straw by Deep Eutectic Solvent (DES) to Produce Lignin Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10248-10256.	6.7	127
56	Engineering a High-Energy-Density and Long Lifespan Aqueous Zinc Battery via Ammonium Vanadium Bronze. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20796-20803.	8.0	75
57	Strong Charge Transfer at 2H \rightarrow 1T Phase Boundary of MoS ₂ for Superb High-Performance Energy Storage. <i>Small</i> , 2019, 15, e1900131.	10.0	53
58	Strong ultralight foams based on nanocrystalline cellulose for high-performance insulation. <i>Carbohydrate Polymers</i> , 2019, 218, 103-111.	10.2	25
59	Electrodepositing Pd on NiFe layered double hydroxide for improved water electrolysis. <i>Materials Chemistry Frontiers</i> , 2019, 3, 842-850.	5.9	40
60	Perylene diimide \rightarrow modified magnetic Fe ₂ O ₃ /CeO ₂ nanoparticles as peroxidase mimics for highly sensitive colorimetric detection of Vitamin C. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4884.	3.5	10
61	Controllable growth of Au nanostructures onto MoS ₂ nanosheets for dual-modal imaging and photothermal \rightarrow radiation combined therapy. <i>Nanoscale</i> , 2019, 11, 22788-22795.	5.6	16
62	Exonuclease III-Regulated Target Cyclic Amplification-Based Single Nucleotide Polymorphism Detection Using Ultrathin Ternary Chalcogenide Nanosheets. <i>Frontiers in Chemistry</i> , 2019, 7, 844.	3.6	2
63	Deep Eutectic Solvent Assisted Facile Synthesis of Lignin-Based Cryogel. <i>Macromolecules</i> , 2019, 52, 227-235.	4.8	17
64	Enhanced peroxidase \rightarrow like activity of MMT \rightarrow supported cuprous oxide nanocomposites toward rapid colorimetric estimation of H ₂ O ₂ . <i>Applied Organometallic Chemistry</i> , 2019, 33, e4716.	3.5	18
65	Hierarchical NiCo ₂ xFe _x O ₄ /Ni ₂ CoS ₄ nanoarray-decorated carbon textile anode with enhanced stability and capacitance. <i>Journal of Materials Science</i> , 2019, 54, 4905-4916.	3.7	4
66	Efficient bifunctional vanadium-doped Ni ₃ S ₂ nanorod array for overall water splitting. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 443-450.	6.0	54
67	Synthesis of MoX ₂ (X = Se or S) monolayers with high-concentration 1T \rightarrow phase on 4H/fcc-Au nanorods for hydrogen evolution. <i>Nano Research</i> , 2019, 12, 1301-1305.	10.4	44
68	Novel structured transition metal dichalcogenide nanosheets. <i>Chemical Society Reviews</i> , 2018, 47, 3301-3338.	38.1	303
69	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1705516.	21.0	375
70	Peroxidase-like activity of MoS ₂ nanoflakes with different modifications and their application for H ₂ O ₂ and glucose detection. <i>Journal of Materials Chemistry B</i> , 2018, 6, 487-498.	5.8	130
71	Organic-Dye-Modified Upconversion Nanoparticle as a Multichannel Probe To Detect Cu ²⁺ in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1028-1032.	8.0	49
72	Preparation of High-Percentage 1T \rightarrow Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, 1705509.	21.0	341

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73	Synthesis of well-dispersed Fe ₃ O ₄ nanoparticles loaded on montmorillonite and sensitive colorimetric detection of H ₂ O ₂ based on its peroxidase-like activity. <i>New Journal of Chemistry</i> , 2018, 42, 9578-9587.	2.8	65
74	New Insights Toward Quantitative Relationships between Lignin Reactivity to Monomers and Their Structural Characteristics. <i>ChemSusChem</i> , 2018, 11, 2146-2155.	6.8	19
75	Crystal phase-based epitaxial growth of hybrid noble metal nanostructures on 4H/fcc Au nanowires. <i>Nature Chemistry</i> , 2018, 10, 456-461.	13.6	220
76	Recent advances in oxidative valorization of lignin. <i>Catalysis Today</i> , 2018, 302, 50-60.	4.4	155
77	Dreidimensionale Architekturen aus Übergangsmetall-Dichalkogenid-Nanomaterialien zur elektrochemischen Energiespeicherung und -umwandlung. <i>Angewandte Chemie</i> , 2018, 130, 634-655.	2.0	37
78	Three-Dimensional Architectures Constructed from Transition-Metal Dichalcogenide Nanomaterials for Electrochemical Energy Storage and Conversion. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 626-646.	13.8	398
79	FePt nanoalloys on N-doped graphene paper as integrated electrode towards efficient formic acid electrooxidation. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 95-103.	2.9	11
80	A colorimetric sensor of H ₂ O ₂ based on Co ₃ O ₄ @montmorillonite nanocomposites with peroxidase activity. <i>New Journal of Chemistry</i> , 2018, 42, 1501-1509.	2.8	79
81	Cobalt and nickel bimetallic sulfide nanoparticles immobilized on montmorillonite demonstrating peroxidase-like activity for H ₂ O ₂ detection. <i>New Journal of Chemistry</i> , 2018, 42, 18749-18758.	2.8	34
82	The Alcohol-to-Jet Conversion Pathway for Drop-In Biofuels: Techno-Economic Evaluation. <i>ChemSusChem</i> , 2018, 11, 3692-3692.	6.8	2
83	Iron Doped CuSn(OH) ₆ Microspheres as a Peroxidase-Mimicking Artificial Enzyme for H ₂ O ₂ Colorimetric Detection. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14383-14393.	6.7	103
84	The Alcohol-to-Jet Conversion Pathway for Drop-In Biofuels: Techno-Economic Evaluation. <i>ChemSusChem</i> , 2018, 11, 3728-3741.	6.8	107
85	Doping-induced phase transition enables better electrocatalysts. <i>Science China Materials</i> , 2018, 61, 1623-1624.	6.3	2
86	FeNi Cubic Cage@N-Doped Carbon Coupled with N-Doped Graphene toward Efficient Electrochemical Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8266-8273.	6.7	68
87	Lithiation-induced amorphization of Pd ₃ P ₂ S ₈ for highly efficient hydrogen evolution. <i>Nature Catalysis</i> , 2018, 1, 460-468.	34.4	247
88	Ni ₃ [Fe(CN) ₆] ₂ nanocubes boost the catalytic activity of Pt for electrochemical hydrogen evolution. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1683-1689.	6.0	23
89	A High-Rate and Stable Quasi-Solid-State Zinc-Ion Battery with Novel 2D Layered Zinc Orthovanadate Array. <i>Advanced Materials</i> , 2018, 30, e1803181.	21.0	571
90	In Situ Growth of NiFe Alloy Nanoparticles Embedded into N-Doped Bamboo-like Carbon Nanotubes as a Bifunctional Electrocatalyst for Zn-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26178-26187.	8.0	94

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91	Enhanced hydrogen evolution of MoS ₂ /RGO: vanadium, nitrogen dopants triggered new active sites and expanded interlayer. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2092-2099.	6.0	36
92	FePt nanoparticles-decorated graphene oxide nanosheets as enhanced peroxidase mimics for sensitive response to H ₂ O ₂ . <i>Materials Science and Engineering C</i> , 2018, 90, 610-620.	7.3	93
93	Chapter 6. Oxidative Valorization of Lignin. <i>RSC Energy and Environment Series</i> , 2018, , 128-158.	0.5	5
94	Investigation of Thermally Induced Cellular Ablation and Heat Response Triggered by Planar MoS ₂ -Based Nanocomposite. <i>Bioconjugate Chemistry</i> , 2017, 28, 1059-1067.	3.6	33
95	Self-branched $\text{Ti-MnO}_2/\text{Ti-MnO}_2$ heterojunction nanowires with enhanced pseudocapacitance. <i>Materials Horizons</i> , 2017, 4, 415-422.	12.2	105
96	Preparation of Ultrathin Two-Dimensional Ti _x Ta _{1-x} S _y O _z Nanosheets as Highly Efficient Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7842-7846.	13.8	59
97	Preparation of Ultrathin Two-Dimensional Ti _x Ta _{1-x} S _y O _z Nanosheets as Highly Efficient Photothermal Agents. <i>Angewandte Chemie</i> , 2017, 129, 7950-7954.	2.0	11
98	Alkaline hydrogen peroxide (AHP) pretreatment of softwood: Enhanced enzymatic hydrolysability at low peroxide loadings. <i>Biomass and Bioenergy</i> , 2017, 96, 96-102.	5.7	42
99	Effects of the Surface Morphology and Conformations of Lignocellulosic Biomass Biopolymers on Their Nanoscale Interactions with Hydrophobic Self-Assembled Monolayers. <i>Langmuir</i> , 2017, 33, 6857-6868.	3.5	7
100	Growth of Au Nanoparticles on 2D Metalloporphyrinic Metal-Organic Framework Nanosheets Used as Biomimetic Catalysts for Cascade Reactions. <i>Advanced Materials</i> , 2017, 29, 1700102.	21.0	384
101	Lignin Depolymerization to Dicarboxylic Acids with Sodium Percarbonate. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6253-6260.	6.7	38
102	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. <i>Chemical Reviews</i> , 2017, 117, 6225-6331.	47.7	3,940
103	Relating Dicarboxylic Acid Yield to Residual Lignin Structural Features. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11695-11705.	6.7	10
104	Recent Progress in the Preparation, Assembly, Transformation, and Applications of Layer-Structured Nanodisks beyond Graphene. <i>Advanced Materials</i> , 2017, 29, 1701704.	21.0	65
105	Synthesis of WO _n â€W ₂ (n=2.7, 2.9; X=S, Se) Heterostructures for Highly Efficient Green Quantum Dot Light-Emitting Diodes. <i>Angewandte Chemie</i> , 2017, 129, 10622-10626.	2.0	7
106	Synthesis of WO _n â€W ₂ (n=2.7, 2.9; X=S, Se) Heterostructures for Highly Efficient Green Quantum Dot Light-Emitting Diodes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10486-10490.	13.8	21
107	Two-dimensional transition metal dichalcogenide nanomaterials for biosensing applications. <i>Materials Chemistry Frontiers</i> , 2017, 1, 24-36.	5.9	173
108	A Novel and Formaldehyde-Free Preparation Method for Lignin Amine and Its Enhancement for Soy Protein Adhesive. <i>Journal of Polymers and the Environment</i> , 2017, 25, 599-605.	5.0	24

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109	Surface Charge-Mediated Formation of H_2TiO_2 @ $\text{Ni}(\text{OH})_2$ Heterostructures for High-Performance Supercapacitors. <i>Advanced Materials</i> , 2017, 29, 1604164.	21.0	203
110	Weavable, High-Performance, Solid-State Supercapacitors Based on Hybrid Fibers Made of Sandwiched Structure of MWCNT/rGO/MWCNT. <i>Advanced Electronic Materials</i> , 2016, 2, 1600102.	5.1	47
111	Lösungsprozessierte MoS_2 -Nanoplättchen: Herstellung, Hybridisierung und Anwendungen. <i>Angewandte Chemie</i> , 2016, 128, 8960-8984.	2.0	52
112	Preparation of Single-Layer MoS_2 and MoS_2/Se and MoS_2/W Nanosheets with High-Concentration Metallic 1T Phase. <i>Small</i> , 2016, 12, 1866-1874.	10.0	126
113	$\text{Co}@ \text{Co}_3\text{O}_4$ @PPD Core@birefringent Nanoparticle-Based Composite as an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Small</i> , 2016, 12, 2580-2587.	10.0	86
114	Solution-Processed Two-Dimensional MoS_2 Nanosheets: Preparation, Hybridization, and Applications. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8816-8838.	13.8	557
115	Sacrificial template formation of CoMoO_4 hollow nanostructures constructed by ultrathin nanosheets for robust lithium storage. <i>RSC Advances</i> , 2016, 6, 51710-51715.	3.6	20
116	Synthesis of Two-Dimensional $\text{CoS}_{1.097}$ /Nitrogen-Doped Carbon Nanocomposites Using Metal-Organic Framework Nanosheets as Precursors for Supercapacitor Application. <i>Journal of the American Chemical Society</i> , 2016, 138, 6924-6927.	13.7	591
117	The Effects of Noncellulosic Compounds on the Nanoscale Interaction Forces Measured between Carbohydrate-Binding Module and Lignocellulosic Biomass. <i>Biomacromolecules</i> , 2016, 17, 1705-1715.	5.4	21
118	Preparation of Cobalt Sulfide Nanoparticle-Decorated Nitrogen and Sulfur Co-Doped Reduced Graphene Oxide Aerogel Used as a Highly Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Small</i> , 2016, 12, 5920-5926.	10.0	65
119	Highly Sensitive and Selective Aptamer-Based Fluorescence Detection of a Malarial Biomarker Using Single-Layer MoS_2 Nanosheets. <i>ACS Sensors</i> , 2016, 1, 1315-1321.	7.8	64
120	One-Pot Synthesis of Highly Anisotropic Five-Fold-Twinned PtCu Nanoframes Used as a Bifunctional Electrocatalyst for Oxygen Reduction and Methanol Oxidation. <i>Advanced Materials</i> , 2016, 28, 8712-8717.	21.0	336
121	Peracetic Acid Depolymerization of Biorefinery Lignin for Production of Selective Monomeric Phenolic Compounds. <i>Chemistry - A European Journal</i> , 2016, 22, 10884-10891.	3.3	42
122	Flexible foams of graphene entrapped SnO_2 @ Co_3O_4 nanocubes with remarkably large and fast lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16101-16107.	10.3	38
123	In Situ Synthesis of Metal Sulfide Nanoparticles Based on 2D Metal-Organic Framework Nanosheets. <i>Small</i> , 2016, 12, 4669-4674.	10.0	101
124	Evaluation of physical structural features on influencing enzymatic hydrolysis efficiency of micronized wood. <i>RSC Advances</i> , 2016, 6, 103026-103034.	3.6	21
125	Solution-Processed Two-Dimensional Metal Dichalcogenide-Based Nanomaterials for Energy Storage and Conversion. <i>Advanced Materials</i> , 2016, 28, 6167-6196.	21.0	438
126	Unique low-molecular-weight lignin with high purity extracted from wood by deep eutectic solvents (DES): a source of lignin for valorization. <i>Green Chemistry</i> , 2016, 18, 5133-5141.	9.0	457

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127	Mussel-inspired one-pot synthesis of transition metal and nitrogen co-doped carbon (M/N@C) as efficient oxygen catalysts for Zn-air batteries. <i>Nanoscale</i> , 2016, 8, 5067-5075.	5.6	109
128	Genetic Parameters of Factors Affecting the Biomass Recalcitrance of Douglas Fir Trees. <i>Bioenergy Research</i> , 2016, 9, 731-739.	3.9	0
129	Boosting the lithium storage performance of MoS ₂ with graphene quantum dots. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4783-4789.	10.3	100
130	Mesoporous CoFe ₂ O ₄ octahedra with high-capacity and long-life lithium storage properties. <i>RSC Advances</i> , 2016, 6, 18-22.	3.6	11
131	All Metal Nitrides Solid-State Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2015, 27, 4566-4571.	21.0	371
132	Ultrathin 2D Metal-Organic Framework Nanosheets. <i>Advanced Materials</i> , 2015, 27, 7372-7378.	21.0	943
133	Heterogeneity and Specificity of Nanoscale Adhesion Forces Measured between Self-Assembled Monolayers and Lignocellulosic Substrates: A Chemical Force Microscopy Study. <i>Langmuir</i> , 2015, 31, 10233-10245.	3.5	11
134	Black Phosphorus Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3653-3657.	13.8	594
135	An improved X-ray diffraction method for cellulose crystallinity measurement. <i>Carbohydrate Polymers</i> , 2015, 123, 476-481.	10.2	205
136	Dilute Acid Pretreatment of Douglas Fir Forest Residues: Pretreatment Yield, Hemicellulose Degradation, and Enzymatic Hydrolysability. <i>Bioenergy Research</i> , 2015, 8, 42-52.	3.9	18
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