

# 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  
docs citations

173  
times ranked

24613  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances in Ultrathin Two-Dimensional Nanomaterials. <i>Chemical Reviews</i> , 2017, 117, 6225-6331.	47.7	3,940
2	Ultrathin 2D Metal-Organic Framework Nanosheets. <i>Advanced Materials</i> , 2015, 27, 7372-7378.	21.0	943
3	Black Phosphorus Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3653-3657.	13.8	594
4	Synthesis of Two-Dimensional CoS <sub>1.097</sub> /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
5	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
6	Solution-Processed Two-Dimensional MoS <sub>2</sub> Nanosheets: Preparation, Hybridization, and Applications. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8816-8838.	13.8	557
7	Biorefining of softwoods using ethanol organosolv pulping: Preliminary evaluation of process streams for manufacture of fuel-grade ethanol and co-products. <i>Biotechnology and Bioengineering</i> , 2005, 90, 473-481.	3.3	493
8	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
9	Solution-Processed Two-Dimensional Metal Dichalcogenide-Based Nanomaterials for Energy Storage and Conversion. <i>Advanced Materials</i> , 2016, 28, 6167-6196.	21.0	438
10	Phase engineering of nanomaterials. <i>Nature Reviews Chemistry</i> , 2020, 4, 243-256.	30.2	438
11	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
12	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
13	Catalytic Oxidation of Biorefinery Lignin to Value-Added Chemicals to Support Sustainable Biofuel Production. <i>ChemSusChem</i> , 2015, 8, 24-51.	6.8	378
14	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1705516.	21.0	375
15	All Metal Nitrides Solid-State Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2015, 27, 4566-4571.	21.0	371
16	Preparation of High-Percentage 1T-Phase Transition Metal Dichalcogenide Nanodots for Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018, 30, 1705509.	21.0	341
17	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
18	Novel structured transition metal dichalcogenide nanosheets. <i>Chemical Society Reviews</i> , 2018, 47, 3301-3338.	38.1	303

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19	Effects of Sugar Inhibition on Cellulases and Î <sup>2</sup> -Glucosidase During Enzymatic Hydrolysis of Softwood Substrates. <i>Applied Biochemistry and Biotechnology</i> , 2004, 115, 1115-1126.	2.9	291
20	Lithiation-induced amorphization of Pd <sub>3</sub> P <sub>2</sub> S <sub>8</sub> for highly efficient hydrogen evolution. <i>Nature Catalysis</i> , 2018, 1, 460-468.	34.4	247
21	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
22	An improved X-ray diffraction method for cellulose crystallinity measurement. <i>Carbohydrate Polymers</i> , 2015, 123, 476-481.	10.2	205
23	Surfaceâ€Chargeâ€Mediated Formation of Hâ€TiO <sub>2</sub> @Ni(OH) <sub>2</sub> Heterostructures for Highâ€Performance Supercapacitors. <i>Advanced Materials</i> , 2017, 29, 1604164.	21.0	203
24	A Facile and Universal Topâ€Down Method for Preparation of Monodisperse Transitionâ€Metal Dichalcogenide Nanodots. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 5425-5428.	13.8	185
25	Two-dimensional transition metal dichalcogenide nanomaterials for biosensing applications. <i>Materials Chemistry Frontiers</i> , 2017, 1, 24-36.	5.9	173
26	Recent advances in oxidative valorization of lignin. <i>Catalysis Today</i> , 2018, 302, 50-60.	4.4	155
27	Peroxidase-like activity of MoS <sub>2</sub> nanoflakes with different modifications and their application for H <sub>2</sub> O <sub>2</sub> and glucose detection. <i>Journal of Materials Chemistry B</i> , 2018, 6, 487-498.	5.8	130
28	Routes to Potential Bioproducts from Lignocellulosic Biomass Lignin and Hemicelluloses. <i>Bioenergy Research</i> , 2011, 4, 246-257.	3.9	129
29	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
30	Preparation of Singleâ€Layer MoS <sub>2</sub> /Se <sub>2</sub> (1â€x)S <sub>2</sub> and Mo <sub>2</sub> W <sub>2</sub> (1â€x)S <sub>2</sub> Nanosheets with Highâ€Concentration Metallic 1T Phase. <i>Small</i> , 2016, 12, 1866-1874.	10.0	126
31	Confined Synthesis of 2D Nanostructured Materials toward Electrocatalysis. <i>Advanced Energy Materials</i> , 2020, 10, 1900486.	19.5	123
32	Selective Conversion of Biorefinery Lignin into Dicarboxylic Acids. <i>ChemSusChem</i> , 2014, 7, 412-415.	6.8	120
33	An advanced understanding of the specific effects of xylan and surface lignin contents on enzymatic hydrolysis of lignocellulosic biomass. <i>Bioresource Technology</i> , 2013, 132, 137-145.	9.6	115
34	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
35	Mussel-inspired one-pot synthesis of transition metal and nitrogen co-doped carbon (M/Nâ€C) as efficient oxygen catalysts for Zn-air batteries. <i>Nanoscale</i> , 2016, 8, 5067-5075.	5.6	109
36	High consistency enzymatic hydrolysis of hardwood substrates. <i>Bioresource Technology</i> , 2009, 100, 5890-5897.	9.6	107

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37	The Alcohol-to-Jet Conversion Pathway for Drop-In Biofuels: Techno-Economic Evaluation. <i>ChemSusChem</i> , 2018, 11, 3728-3741.	6.8	107
38	Self-branched $\text{MnO}_2/\text{MnO}_2$ heterojunction nanowires with enhanced pseudocapacitance. <i>Materials Horizons</i> , 2017, 4, 415-422.	12.2	105
39	Iron Doped $\text{CuSn}(\text{OH})_6$ Microspheres as a Peroxidase-Mimicking Artificial Enzyme for $\text{H}_2\text{O}_2$ Colorimetric Detection. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14383-14393.	6.7	103
40	In Situ Synthesis of Metal Sulfide Nanoparticles Based on 2D Metal-Organic Framework Nanosheets. <i>Small</i> , 2016, 12, 4669-4674.	10.0	101
41	Boosting the lithium storage performance of $\text{MoS}_2$ with graphene quantum dots. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4783-4789.	10.3	100
42	Selective Epitaxial Growth of Oriented Hierarchical Metal-Organic Framework Heterostructures. <i>Journal of the American Chemical Society</i> , 2020, 142, 8953-8961.	13.7	100
43	Synthesis of Palladium-Based Crystalline@Amorphous Core-Shell Nanoplates for Highly Efficient Ethanol Oxidation. <i>Advanced Materials</i> , 2020, 32, e2000482.	21.0	98
44	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 &amp; Interfaces</i> , 2018, 10, 26178-26187.	8.0	94
45	FePt nanoparticles-decorated graphene oxide nanosheets as enhanced peroxidase mimics for sensitive response to $\text{H}_2\text{O}_2$ . <i>Materials Science and Engineering C</i> , 2018, 90, 610-620.	7.3	93
46	Ultralong life lithium-ion battery anode with superior high-rate capability and excellent cyclic stability from mesoporous $\text{Fe}_2\text{O}_3/\text{TiO}_2$ core-shell nanorods. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3912.	10.3	91
47	Potential of Nanocrystalline Cellulose-Fibrin Nanocomposites for Artificial Vascular Graft Applications. <i>Biomacromolecules</i> , 2013, 14, 1063-1071.	5.4	90
48	$\text{Co}_3\text{O}_4/\text{PPD}$ Core-Shell Nanoparticle-Based Composite as an Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Small</i> , 2016, 12, 2580-2587.	10.0	86
49	Intramolecular Hydrogen Bonding-Based Topology Regulation of Two-Dimensional Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 13162-13169.	13.7	85
50	A colorimetric sensor of $\text{H}_2\text{O}_2$ based on $\text{Co}_3\text{O}_4/\text{montmorillonite}$ nanocomposites with peroxidase activity. <i>New Journal of Chemistry</i> , 2018, 42, 1501-1509.	2.8	79
51	Alkaline hydrogen peroxide pretreatment of softwood: Hemicellulose degradation pathways. <i>Bioresource Technology</i> , 2013, 150, 321-327.	9.6	75
52	A cyanine-modified upconversion nanoprobe for NIR-excited imaging of endogenous hydrogen peroxide signaling in vivo. <i>Biomaterials</i> , 2015, 54, 34-43.	11.4	75
53	Si Doped $\text{CoO}$ Nanorods as Peroxidase Mimics for Colorimetric Sensing of Reduced Glutathione. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13989-13998.	6.7	75
54	Engineering a High-Energy-Density and Long Lifespan Aqueous Zinc Battery via Ammonium Vanadium Bronze. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 20796-20803.	8.0	75

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55	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
56	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
57	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
58	Synthesis of well-dispersed Fe <sub>3</sub> O <sub>4</sub> nanoparticles loaded on montmorillonite and sensitive colorimetric detection of H <sub>2</sub> O <sub>2</sub> based on its peroxidase-like activity. <i>New Journal of Chemistry</i> , 2018, 42, 9578-9587.	2.8	65
59	Synthesis of Pd <sub>3</sub> Sn and PdCuSn Nanorods with L1 <sub>2</sub> Phase for Highly Efficient Electrocatalytic Ethanol Oxidation. <i>Advanced Materials</i> , 2022, 34, e2106115.	21.0	65
60	Highly Sensitive and Selective Aptamer-Based Fluorescence Detection of a Malarial Biomarker Using Single-Layer MoS <sub>2</sub> Nanosheets. <i>ACS Sensors</i> , 2016, 1, 1315-1321.	7.8	64
61	Recent progress on single-atom catalysts for CO <sub>2</sub> electroreduction. <i>Materials Today</i> , 2021, 48, 95-114.	14.2	63
62	Sol-gel synthesis of mesoporous Co <sub>3</sub> O <sub>4</sub> octahedra toward high-performance anodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2014, 129, 410-415.	5.2	62
63	Enzymatic Oxidation of Lignin: Challenges and Barriers Toward Practical Applications. <i>ChemCatChem</i> , 2020, 12, 401-425.	3.7	62
64	CoFeP hollow cube as advanced electrocatalyst for water oxidation. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 604-611.	6.0	61
65	Preparation of Ultrathin Two-Dimensional Ti <sub>x</sub> Ta <sub>1-x</sub> S <sub>y</sub> O <sub>z</sub> Nanosheets as Highly Efficient Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7842-7846.	13.8	59
66	Efficient bifunctional vanadium-doped Ni <sub>3</sub> S <sub>2</sub> nanorod array for overall water splitting. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 443-450.	6.0	54
67	Strong Charge Transfer at 2H-1T Phase Boundary of MoS <sub>2</sub> for Superb High-Performance Energy Storage. <i>Small</i> , 2019, 15, e1900131.	10.0	53
68	L�sungsprozessierte MoS <sub>2</sub> -Nanoplttchen: Herstellung, Hybridisierung und Anwendungen. <i>Angewandte Chemie</i> , 2016, 128, 8960-8984.	2.0	52
69	Topochemical transformation of Co( <i>scpi</i> ) coordination polymers to Co <sub>3</sub> O <sub>4</sub> nanoplates for high-performance lithium storage. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2251-2257.	10.3	49
70	Organic-Dye-Modified Upconversion Nanoparticle as a Multichannel Probe To Detect Cu <sup>2+</sup> in Living Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1028-1032.	8.0	49
71	Catalytic partial oxidation (CPOX) of natural gas and renewable hydrocarbons/oxygenated hydrocarbons�A review. <i>Catalysis Today</i> , 2019, 338, 18-30.	4.4	48
72	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

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73	Porphyrin functionalized Co(OH) <sub>2</sub> /GO nanocomposites as an excellent peroxidase mimic for colorimetric biosensing. <i>Analyst</i> , 2019, 144, 5284-5291.	3.5	45
74	Construction of sandwiched graphene paper@Fe <sub>3</sub> O <sub>4</sub> nanorod array@graphene for large and fast lithium storage with an extended lifespan. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19384-19392.	10.3	44
75	Synthesis of 4H/fcc-Au@Metal Sulfide Core-Shell Nanoribbons. <i>Journal of the American Chemical Society</i> , 2015, 137, 10910-10913.	13.7	44
76	Synthesis of MoX <sub>2</sub> (X = Se or S) monolayers with high-concentration 1T phase on 4H/fcc-Au nanorods for hydrogen evolution. <i>Nano Research</i> , 2019, 12, 1301-1305.	10.4	44
77	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
78	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
79	Partial depolymerization of enzymolysis lignin via mild hydrogenolysis over Raney Nickel. <i>Bioresource Technology</i> , 2014, 155, 422-426.	9.6	42
80	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
81	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
82	Specific effects of fiber size and fiber swelling on biomass substrate surface area and enzymatic digestibility. <i>Bioresource Technology</i> , 2013, 144, 232-239.	9.6	40
83	Electrodepositing Pd on NiFe layered double hydroxide for improved water electrolysis. <i>Materials Chemistry Frontiers</i> , 2019, 3, 842-850.	5.9	40
84	Deep Eutectic Solvent Extraction of High-Purity Lignin from a Corn Stover Hydrolysate. <i>ChemSusChem</i> , 2020, 13, 4678-4690.	6.8	39
85	Flexible foams of graphene entrapped SnO <sub>2</sub> @Co <sub>3</sub> O <sub>4</sub> nanocubes with remarkably large and fast lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16101-16107.	10.3	38
86	Lignin Depolymerization to Dicarboxylic Acids with Sodium Percarbonate. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6253-6260.	6.7	38
87	Ultra-thin metal-organic framework nanoribbons. <i>National Science Review</i> , 2020, 7, 46-52.	9.5	38
88	Dreidimensionale Architekturen aus Übergangsmetall-Dichalkogenid-Nanomaterialien zur elektrochemischen Energiespeicherung und -umwandlung. <i>Angewandte Chemie</i> , 2018, 130, 634-655.	2.0	37
89	Enhanced hydrogen evolution of MoS <sub>2</sub> /RGO: vanadium, nitrogen dopants triggered new active sites and expanded interlayer. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2092-2099.	6.0	36
90	Electrochemical sandwich-type thrombin aptasensor based on dual signal amplification strategy of silver nanowires and hollow Au@CeO <sub>2</sub> . <i>Biosensors and Bioelectronics</i> , 2020, 150, 111846.	10.1	36

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91	Cobalt and nickel bimetallic sulfide nanoparticles immobilized on montmorillonite demonstrating peroxidase-like activity for H <sub>2</sub> O <sub>2</sub> detection. <i>New Journal of Chemistry</i> , 2018, 42, 18749-18758.	2.8	34
92	Metal-Free 2(3),9(10),16(17),23(24)-Octamethoxyphthalocyanine-Modified Uniform CoSn(OH) <sub>6</sub> 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
93	Investigation of Thermally Induced Cellular Ablation and Heat Response Triggered by Planar MoS <sub>2</sub> -Based Nanocomposite. <i>Bioconjugate Chemistry</i> , 2017, 28, 1059-1067.	3.6	33
94	VS <sub>4</sub> -Decorated Carbon Nanotubes for Lithium Storage with Pseudocapacitance Contribution. <i>ChemSusChem</i> , 2020, 13, 1637-1644.	6.8	32
95	Highly stable and tunable peptoid/hemin enzymatic mimetics with natural peroxidase-like activities. <i>Nature Communications</i> , 2022, 13, .	12.8	32
96	Evaluation of pretreatment effect on lignin extraction from wheat straw by deep eutectic solvent. <i>Bioresource Technology</i> , 2022, 344, 126174.	9.6	31
97	Rapid colorimetric determination of dopamine based on the inhibition of the peroxidase mimicking activity of platinum loaded CoSn(OH) <sub>6</sub> nanocubes. <i>Mikrochimica Acta</i> , 2019, 186, 755.	5.0	29
98	PtFe/nitrogen-doped graphene for high-performance electrooxidation of formic acid with composition sensitive electrocatalytic activity. <i>RSC Advances</i> , 2015, 5, 60237-60245.	3.6	28
99	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
100	Flower-like CeO <sub>2</sub> /CoO Heterojuncted Nanocomposites with Enhanced Peroxidase-Mimicking Activity for Cysteine Sensing. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17540-17550.	6.7	28
101	Facile fabrication of a NiO/Ag <sub>3</sub> PO <sub>4</sub> Z-scheme photocatalyst with enhanced visible-light-driven photocatalytic activity. <i>New Journal of Chemistry</i> , 2020, 44, 12806-12814.	2.8	27
102	Techno-economic analysis of catalytic hydrothermolysis pathway for jet fuel production. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 151, 111516.	16.4	27
103	Recent advances in biomedical applications of 2D nanomaterials with peroxidase-like properties. <i>Advanced Drug Delivery Reviews</i> , 2022, 185, 114269.	13.7	27
104	Impact of alg3 gene deletion on growth, development, pigment production, protein secretion, and functions of recombinant <i>Trichoderma reesei</i> cellobiohydrolases in <i>Aspergillus niger</i> . <i>Fungal Genetics and Biology</i> , 2013, 61, 120-132.	2.1	25
105	Strong ultralight foams based on nanocrystalline cellulose for high-performance insulation. <i>Carbohydrate Polymers</i> , 2019, 218, 103-111.	10.2	25
106	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
107	Hierarchical Ni(OH) <sub>2</sub> /MnO <sub>2</sub> Array as Supercapacitor Electrode with High Capacity. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801470.	3.7	23
108	Ni <sub>3</sub> [Fe(CN) <sub>6</sub> ] <sub>2</sub> nanocubes boost the catalytic activity of Pt for electrochemical hydrogen evolution. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1683-1689.	6.0	23

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109	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
110	Evaluation of physical structural features on influencing enzymatic hydrolysis efficiency of micronized wood. <i>RSC Advances</i> , 2016, 6, 103026-103034.	3.6	21
111	Synthesis of $WO_x$ ( $x=2.7, 2.9$ ; 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
112	N,N-dicarboxymethyl Perylene-diimide modified CeCoO <sub>3</sub> : Enhanced peroxidase activity, synergetic catalytic mechanism and glutathione colorimetric sensing. <i>Talanta</i> , 2020, 218, 121142.	5.5	21
113	Sacrificial template formation of CoMoO <sub>4</sub> hollow nanostructures constructed by ultrathin nanosheets for robust lithium storage. <i>RSC Advances</i> , 2016, 6, 51710-51715.	3.6	20
114	Hydroquinone colorimetric sensing based on platinum deposited on CdS nanorods as peroxidase mimics. <i>Mikrochimica Acta</i> , 2020, 187, 587.	5.0	20
115	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
116	Investigating commercial cellulase performances toward specific biomass recalcitrance factors using reference substrates. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 4409-4420.	3.6	19
117	Self-assembled 3D Co <sub>3</sub> O <sub>4</sub> -graphene frameworks with high lithium storage performance. <i>Ionics</i> , 2014, 20, 1635-1639.	2.4	19
118	New Insights Toward Quantitative Relationships between Lignin Reactivity to Monomers and Their Structural Characteristics. <i>ChemSusChem</i> , 2018, 11, 2146-2155.	6.8	19
119	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
120	Enhanced peroxidase-like activity of MMT-supported cuprous oxide nanocomposites toward rapid colorimetric estimation of H <sub>2</sub> O <sub>2</sub> . <i>Applied Organometallic Chemistry</i> , 2019, 33, e4716.	3.5	18
121	Rapid colorimetric sensing of ascorbic acid based on the excellent peroxidase-like activity of Pt deposited on ZnCo <sub>2</sub> O <sub>4</sub> spheres. <i>New Journal of Chemistry</i> , 2020, 44, 12002-12008.	2.8	18
122	Pulp mill integration with alcohol-to-jet conversion technology. <i>Fuel Processing Technology</i> , 2020, 201, 106338.	7.2	18
123	A MnO <sub>x</sub> 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
124	Deep Eutectic Solvent Assisted Facile Synthesis of Lignin-Based Cryogel. <i>Macromolecules</i> , 2019, 52, 227-235.	4.8	17
125	A simple electrochemical method for conversion of Pt wires to Pt concave icosahedra and nanocubes on carbon paper for electrocatalytic hydrogen evolution. <i>Science China Materials</i> , 2019, 62, 115-121.	6.3	16
126	Size-Dependent Phase Transformation of Noble Metal Nanomaterials. <i>Small</i> , 2019, 15, e1903253.	10.0	16



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127	Controllable growth of Au nanostructures onto MoS <sub>2</sub> nanosheets for dual-modal imaging and photothermal radiation combined therapy. <i>Nanoscale</i> , 2019, 11, 22788-22795.	5.6	16
128	Effects of cutting orientation in poplar wood biomass size reduction on enzymatic hydrolysis sugar yield. <i>Bioresource Technology</i> , 2015, 194, 407-410.	9.6	15
129	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
130	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
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