

# Shilei Xie

## List of Publications by Year in descending order

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78  
papers

9,062  
citations

76326

40  
h-index

66911

78  
g-index

80  
all docs

80  
docs citations

80  
times ranked

11647  
citing authors

#	ARTICLE	IF	CITATIONS
1	H <sub>2</sub> TiO <sub>2</sub> @MnO <sub>2</sub> //H <sub>2</sub> TiO <sub>2</sub> @C Core-Shell Nanowires for High Performance and Flexible Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2013, 25, 267-272.	21.0	894
2	Oxygen-Deficient Hematite Nanorods as High-Performance and Novel Negative Electrodes for Flexible Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2014, 26, 3148-3155.	21.0	838
3	High Energy Density Asymmetric Quasi-Solid-State Supercapacitor Based on Porous Vanadium Nitride Nanowire Anode. <i>Nano Letters</i> , 2013, 13, 2628-2633.	9.1	691
4	Stabilized TiN Nanowire Arrays for High-Performance and Flexible Supercapacitors. <i>Nano Letters</i> , 2012, 12, 5376-5381.	9.1	627
5	Oxygen-Vacancy and Surface Modulation of Ultrathin Nickel Cobaltite Nanosheets as a High-Energy Cathode for Advanced Zn-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1802396.	21.0	495
6	Facile synthesis of large-area manganese oxide nanorod arrays as a high-performance electrochemical supercapacitor. <i>Energy and Environmental Science</i> , 2011, 4, 2915.	30.8	479
7	Oxygen vacancies promoting photoelectrochemical performance of In <sub>2</sub> O <sub>3</sub> nanocubes. <i>Scientific Reports</i> , 2013, 3, 1021.	3.3	427
8	Oxygen vacancies enhancing capacitive properties of MnO <sub>2</sub> nanorods for wearable asymmetric supercapacitors. <i>Nano Energy</i> , 2014, 8, 255-263.	16.0	381
9	Metal-Organic-Framework-Derived Dual Metal- and Nitrogen-Doped Carbon as Efficient and Robust Oxygen Reduction Reaction Catalysts for Microbial Fuel Cells. <i>Advanced Science</i> , 2016, 3, 1500265.	11.2	262
10	3D MnO <sub>2</sub> -graphene composites with large areal capacitance for high-performance asymmetric supercapacitors. <i>Nanoscale</i> , 2013, 5, 6790.	5.6	258
11	Efficient photocatalytic hydrogen evolution over hydrogenated ZnO nanorod arrays. <i>Chemical Communications</i> , 2012, 48, 7717-7719.	4.1	253
12	Improving the Cycling Stability of Metal-Nitride Supercapacitor Electrodes with a Thin Carbon Shell. <i>Advanced Energy Materials</i> , 2014, 4, 1300994.	19.5	217
13	Photoelectrochemical hydrogen production from biomass derivatives and water. <i>Chemical Society Reviews</i> , 2014, 43, 7581-7593.	38.1	216
14	Controllable synthesis of porous nickel-cobalt oxide nanosheets for supercapacitors. <i>Journal of Materials Chemistry</i> , 2012, 22, 13357.	6.7	207
15	TiO <sub>2</sub> @C core-shell nanowires for high-performance and flexible solid-state supercapacitors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 225-229.	5.5	192
16	Ceria and ceria-based nanostructured materials for photoenergy applications. <i>Nano Energy</i> , 2017, 34, 313-337.	16.0	134
17	Manganese dioxide nanorod arrays on carbon fabric for flexible solid-state supercapacitors. <i>Journal of Power Sources</i> , 2013, 239, 64-71.	7.8	121
18	Redox cycles promoting photocatalytic hydrogen evolution of CeO <sub>2</sub> nanorods. <i>Journal of Materials Chemistry</i> , 2011, 21, 5569.	6.7	120

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19	Improving the photoelectrochemical and photocatalytic performance of CdO nanorods with CdS decoration. <i>CrystEngComm</i> , 2013, 15, 4212.	2.6	110
20	Facile Electrochemical Synthesis of Single Crystalline CeO <sub>2</sub> Octahedrons and Their Optical Properties. <i>Langmuir</i> , 2010, 26, 7569-7573.	3.5	107
21	Remarkable photoelectrochemical performance of carbon dots sensitized TiO <sub>2</sub> under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16365-16368.	10.3	100
22	Binder-free WS <sub>2</sub> nanosheets with enhanced crystallinity as a stable negative electrode for flexible asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21460-21466.	10.3	89
23	Enhanced photoactivity and stability of carbon and nitrogen co-treated ZnO nanorod arrays for photoelectrochemical water splitting. <i>Journal of Materials Chemistry</i> , 2012, 22, 14272.	6.7	85
24	Controllable Synthesis of Zn <sub>x</sub> Cd <sub>1-x</sub> S@ZnO Core-Shell Nanorods with Enhanced Photocatalytic Activity. <i>Langmuir</i> , 2012, 28, 10558-10564.	3.5	83
25	Monodisperse CeO <sub>2</sub> /CdS heterostructured spheres: one-pot synthesis and enhanced photocatalytic hydrogen activity. <i>RSC Advances</i> , 2011, 1, 1207.	3.6	80
26	Controllable synthesis of hierarchical ZnO nanodisks for highly photocatalytic activity. <i>CrystEngComm</i> , 2012, 14, 1850.	2.6	75
27	Heterostructured ZnO/SnO <sub>2</sub> nanoparticles for efficient photocatalytic hydrogen production. <i>Chemical Communications</i> , 2014, 50, 4341-4343.	4.1	73
28	Hydrogen production from solar driven glucose oxidation over Ni(OH) <sub>2</sub> functionalized electroreduced-TiO <sub>2</sub> nanowire arrays. <i>Green Chemistry</i> , 2013, 15, 2434.	9.0	72
29	NiO decorated Mo:BiVO <sub>4</sub> photoanode with enhanced visible-light photoelectrochemical activity. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4820-4827.	7.1	72
30	Facile electrochemical synthesis of CeO <sub>2</sub> hierarchical nanorods and nanowires with excellent photocatalytic activities. <i>New Journal of Chemistry</i> , 2014, 38, 2581-2586.	2.8	64
31	Hierarchical CeO <sub>2</sub> nanospheres as highly-efficient adsorbents for dye removal. <i>New Journal of Chemistry</i> , 2013, 37, 585.	2.8	62
32	CdS/CeO <sub>x</sub> heterostructured nanowires for photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4190.	10.3	61
33	Facile synthesis of large-area CeO <sub>2</sub> /ZnO nanotube arrays for enhanced photocatalytic hydrogen evolution. <i>Journal of Power Sources</i> , 2014, 247, 545-550.	7.8	60
34	Vertically aligned In <sub>2</sub> O <sub>3</sub> nanorods on FTO substrates for photoelectrochemical applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 14685.	6.7	59
35	Nanoporous carbon derived from a functionalized metal-organic framework as a highly efficient oxygen reduction electrocatalyst. <i>Nanoscale</i> , 2017, 9, 862-868.	5.6	56
36	Recent Advances toward Achieving High-Performance Carbon-Fiber Materials for Supercapacitors. <i>ChemElectroChem</i> , 2018, 5, 571-582.	3.4	54

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37	Porous Pr(OH) <sub>3</sub> Nanostructures as High-Efficiency Adsorbents for Dye Removal. Langmuir, 2012, 28, 11078-11085.	3.5	49
38	Chitosan Waste-Derived Co and N Co-Doped Carbon Electrocatalyst for Efficient Oxygen Reduction Reaction. ChemElectroChem, 2015, 2, 1806-1812.	3.4	49
39	Phase controllable synthesis of three-dimensional star-like MnO <sub>2</sub> hierarchical architectures as highly efficient and stable oxygen reduction electrocatalysts. Journal of Materials Chemistry A, 2016, 4, 16462-16468.	10.3	48
40	Photoelectrochemical immunosensor based on CdSe@BiVO <sub>4</sub> Co-sensitized TiO <sub>2</sub> for carcinoembryonic antigen. Biosensors and Bioelectronics, 2020, 150, 111949.	10.1	44
41	Gold nanoparticles inducing surface disorders of titanium dioxide photoanode for efficient water splitting. Nano Energy, 2014, 10, 313-321.	16.0	42
42	Facile synthesis of porous 3D CoNiCu nano-network structure and their activity towards hydrogen evolution reaction. International Journal of Hydrogen Energy, 2012, 37, 18688-18693.	7.1	37
43	ZnO/SnO <sub>2</sub> hierarchical and flower-like nanostructures: facile synthesis, formation mechanism, and optical and magnetic properties. CrystEngComm, 2012, 14, 2289.	2.6	36
44	A novel electrochemical ascorbic acid sensor based on branch-trunk Ag hierarchical nanostructures. Journal of Electroanalytical Chemistry, 2018, 818, 250-256.	3.8	35
45	Hierarchical MoS <sub>2</sub> @Polypyrrole core-shell microspheres with enhanced electrochemical performances for lithium storage. Electrochimica Acta, 2018, 269, 632-639.	5.2	34
46	Facile synthesis of tungsten oxide nanostructures for efficient photoelectrochemical water oxidation. Journal of Power Sources, 2014, 269, 98-103.	7.8	33
47	Functionalized N-Doped Carbon Nanotube Arrays: Novel Binder-Free Anodes for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 18662-18670.	8.0	32
48	Nickel Hydroxide Decorated Hydrogenated Zinc Oxide Nanorod Arrays with Enhanced Photoelectrochemical Performance. Electrochimica Acta, 2014, 137, 108-113.	5.2	29
49	Transcriptome analysis reveals a positive effect of brassinosteroids on the photosynthetic capacity of wucaï under low temperature. BMC Genomics, 2019, 20, 810.	2.8	29
50	Facile preparation and photoelectrochemical properties of CdSe/TiO <sub>2</sub> NTAs. Materials Research Bulletin, 2012, 47, 580-585.	5.2	26
51	Advanced negative electrode of Fe <sub>2</sub> O <sub>3</sub> /graphene oxide paper for high energy supercapacitors. Materials Research Bulletin, 2017, 96, 413-418.	5.2	26
52	Efficient and stable photoelectrochemical water oxidation by ZnO photoanode coupled with Eu <sub>2</sub> O <sub>3</sub> as novel oxygen evolution catalyst. Journal of Power Sources, 2015, 297, 9-15.	7.8	25
53	Non-enzymatic glucose biosensor based on palladium-copper oxide nanocomposites synthesized via galvanic replacement reaction. Sensors and Actuators B: Chemical, 2017, 253, 552-558.	7.8	25
54	Electrochemical Reduction of CO <sub>2</sub> on Hollow Cubic Cu <sub>2</sub> O@Au Nanocomposites. Nanoscale Research Letters, 2019, 14, 63.	5.7	24

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55	Controllable Electrochemical Synthesis and Photocatalytic Activity of CeO <sub>2</sub> Octahedra and Nanotubes. <i>Journal of the Electrochemical Society</i> , 2011, 158, E41.	2.9	23
56	Comparative Proteomics Indicates That Redox Homeostasis Is Involved in High- and Low-Temperature Stress Tolerance in a Novel Wucui ( <i>Brassica campestris</i> L.) Genotype. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3760.	4.1	23
57	Voltammetric determination of levofloxacin using silver nanoparticles deposited on a thin nickel oxide porous film. <i>Mikrochimica Acta</i> , 2019, 186, 21.	5.0	21
58	Transparent PAN:TiO <sub>2</sub> and PAN-co-PMA:TiO <sub>2</sub> Nanofiber Composite Membranes with High Efficiency in Particulate Matter Pollutants Filtration. <i>Nanoscale Research Letters</i> , 2020, 15, 7.	5.7	21
59	Three-dimensional structures of Mn doped CoP on flexible carbon cloth for effective oxygen evolution reaction. <i>Journal of Materials Research</i> , 2018, 33, 1258-1267.	2.6	20
60	Rational design of hybrid Fe <sub>7</sub> S <sub>8</sub> /Fe <sub>2</sub> N nanoparticles as effective and durable bifunctional electrocatalysts for rechargeable zinc-air batteries. <i>Journal of Power Sources</i> , 2020, 457, 228038.	7.8	20
61	General electrochemical assembling to porous nanowires with high adaptability to water treatment. <i>CrystEngComm</i> , 2011, 13, 2451.	2.6	18
62	Comprehensive Evaluation for Cold Tolerance in Wucui ( <i>Brassica campestris</i> L.) by the Performance Index on an Absorption Basis (Plabs). <i>Agronomy</i> , 2019, 9, 61.	3.0	18
63	Comparative Proteomic Analysis Reveals That Chlorophyll Metabolism Contributes to Leaf Color Changes in Wucui ( <i>Brassica campestris</i> L.) Responding to Cold Acclimation. <i>Journal of Proteome Research</i> , 2019, 18, 2478-2492.	3.7	17
64	Enhanced Photoelectrochemical Activity by Autologous Cd/CdO/CdS Heterojunction Photoanodes with High Conductivity and Separation Efficiency. <i>Chemistry - A European Journal</i> , 2017, 23, 9625-9631.	3.3	14
65	Facile Electrochemical Synthesis of ZnO/ZnS Heterostructure Nanorod Arrays. <i>Journal of the Electrochemical Society</i> , 2011, 158, E84.	2.9	13
66	Facile synthesis of Pr(OH) <sub>3</sub> nanostructures and their application in water treatment. <i>Materials Research Bulletin</i> , 2012, 47, 1783-1786.	5.2	9
67	Comparative Proteomics Reveals Cold Acclimation Machinery Through Enhanced Carbohydrate and Amino Acid Metabolism in Wucui ( <i>Brassica Campestris</i> L.). <i>Plants</i> , 2019, 8, 474.	3.5	7
68	Oxygen Functionalized CoP Nanowires as High-Efficient and Stable Electrocatalyst for Oxygen Evolution Reaction and Full Water Splitting. <i>Journal of the Electrochemical Society</i> , 2020, 167, 124512.	2.9	7
69	Facile preparation of porous carbon nanomaterials for robust supercapacitors. <i>Journal of Materials Research</i> , 2018, 33, 1142-1154.	2.6	6
70	Structural, Photocatalytic and Enhanced Magnetic Properties of Bi <sub>1-x</sub> HoxFeO <sub>3</sub> Nanoparticles Synthesized Via Sol-Gel Method. <i>Ferroelectrics</i> , 2015, 489, 65-72.	0.6	5
71	DNA intrastrand cross-links induced by the purine-type deoxyguanosine-8-yl radical: a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16621-16628.	2.8	5
72	A Convenient Method for Synthesis of Fe <sub>3</sub> O <sub>4</sub> /FeS <sub>2</sub> as High-Performance Electrocatalysts for Oxygen Evolution Reaction and Zinc-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2021, 168, 030517.	2.9	4

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73	Oxygen-deficient NiCo <sub>2</sub> O <sub>4</sub> nanowires as the robust cathode for high-performance nickel-zinc batteries. <i>Journal of Materials Research</i> , 2022, 37, 2185-2194.	2.6	4
74	5-(Halomethyl)uridine derivatives as potential antitumor radiosensitizers: A DFT study. <i>Chemical Physics Letters</i> , 2018, 692, 374-381.	2.6	3
75	A Sensor Based on Hollow, Octahedral, Cu <sub>2</sub> O-Supported Palladium Nanoparticles Prepared by a Galvanic Replacement Reaction and Carboxylic Multi-Walled Carbon Nanotubes for Electrochemical Detection of Caffeic Acid in Red Wine. <i>ChemistrySelect</i> , 2019, 4, 4057-4063.	1.5	3
76	Formation of pyrimidine-pyrimidine type DNA intrastrand cross-links: a theoretical verification. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28907-28916.	2.8	2
77	Theoretical studies on the purine radical induced purine-purine type intrastrand cross-links. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 892-897.	2.8	1
78	Mechanism studies of addition reactions between the pyrimidine type radicals and their 3'/5'-neighboring deoxyguanosines. <i>RSC Advances</i> , 2018, 8, 2777-2785.	3.6	0