

# Yichao Wang

## List of Publications by Year in descending order

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78  
papers

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citations

71102

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Defective ZnOx@porous carbon nanofiber network inducing dendrite-free zinc plating as zinc metal anode for high-performance aqueous rechargeable Zn/Na4Mn9O18 battery based on hybrid electrolyte. Journal of Power Sources, 2022, 518, 230761.	7.8	20
2	Doped 2D SnS materials derived from liquid metal-solution for tunable optoelectronic devices. Nanoscale, 2022, 14, 6802-6810.	5.6	17
3	Plasmon-induced long-lived hot electrons in degenerately doped molybdenum oxides for visible-light-driven photochemical reactions. Materials Today, 2022, 55, 21-28.	14.2	18
4	Enhanced Piezoelectric Properties Enabled by Engineered Low-Dimensional Nanomaterials. ACS Applied Nano Materials, 2022, 5, 12126-12142.	5.0	18
5	Heterojunction of the CoMn Metal-Organic Framework with Lanthanum for Enhanced Oxygen Evolution Reaction. ACS Applied Energy Materials, 2022, 5, 8686-8696.	5.1	4
6	Chemical vapor deposition of amorphous molybdenum sulphide on black phosphorus for photoelectrochemical water splitting. Journal of Materials Science and Technology, 2021, 68, 1-7.	10.7	16
7	Low dimensional materials for glucose sensing. Nanoscale, 2021, 13, 11017-11040.	5.6	30
8	Plasmonic metal-organic framework nanocomposites enabled by degenerately doped molybdenum oxides. Journal of Colloid and Interface Science, 2021, 588, 305-314.	9.4	21
9	Nickel Phosphides Electrodeposited on TiO <sub>2</sub> Nanotube Arrays as Electrocatalysts for Hydrogen Evolution. ACS Applied Nano Materials, 2021, 4, 4542-4551.	5.0	19
10	Engineering two-dimensional metal oxides and chalcogenides for enhanced electro- and photocatalysis. Science Bulletin, 2021, 66, 1228-1252.	9.0	103
11	3D Visible-Light-Driven Plasmonic Oxide Frameworks Deviated from Liquid Metal Nanodroplets. Advanced Functional Materials, 2021, 31, 2106397.	14.9	23
12	Cu <sub>3</sub> Ge coated by nitrogen-doped carbon nanorods as advanced sodium-ion battery anodes. Ionics, 2020, 26, 719-726.	2.4	12
13	Engineering two-dimensional metal oxides <i>via</i> surface functionalization for biological applications. Journal of Materials Chemistry B, 2020, 8, 1108-1127.	5.8	50
14	Flexible integrated metallic glass-based sandwich electrodes for high-performance wearable all-solid-state supercapacitors. Applied Materials Today, 2020, 19, 100539.	4.3	45
15	Bimodal nanoporous NiO@Ni-Si network prepared by dealloying method for stable Li-ion storage. Journal of Power Sources, 2020, 449, 227550.	7.8	42
16	Facile synthesis of free-standing nanorod structured ZnO@carbon nanofiber film and its application in lithium-ion battery anode. Solid State Sciences, 2020, 109, 106430.	3.2	7
17	Faradaic Electrodes Open a New Era for Capacitive Deionization. Advanced Science, 2020, 7, 2002213.	11.2	104
18	Piezoelectric Responses of Mechanically Exfoliated Two-Dimensional SnS <sub>2</sub> Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 51662-51668.	8.0	45

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19	Deciphering the Role of Quaternary N in O <sub>2</sub> Reduction over Controlled N-Doped Carbon Catalysts. <i>Chemistry of Materials</i> , 2020, 32, 1384-1392.	6.7	41
20	2D Plasmonic Tungsten Oxide Enabled Ultrasensitive Fiber Optics Gas Sensor. <i>Advanced Optical Materials</i> , 2019, 7, 1901383.	7.3	57
21	A Ni(OH) <sub>2</sub> nanopetals network for high-performance supercapacitors synthesized by immersing Ni nanofoam in water. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 281-293.	2.8	22
22	Nanoporous GeO <sub>2</sub> /Cu/Cu <sub>2</sub> O network synthesized by dealloying method for stable Li-ion storage. <i>Electrochimica Acta</i> , 2019, 300, 363-372.	5.2	28
23	An Ultrasensitive Silicon Photonic Ion Sensor Enabled by 2D Plasmonic Molybdenum Oxide. <i>Small</i> , 2019, 15, e1805251.	10.0	31
24	Ordered intracrystalline pores in planar molybdenum oxide for enhanced alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 257-268.	10.3	70
25	Identification of active sites for acidic oxygen reduction on carbon catalysts with and without nitrogen doping. <i>Nature Catalysis</i> , 2019, 2, 688-695.	34.4	423
26	Immobilisation of microperoxidase-11 into layered MoO <sub>3</sub> for applications of enzymatic conversion. <i>Applied Materials Today</i> , 2019, 16, 185-192.	4.3	21
27	Improving lithium storage capability of ternary Sn-based sulfides by enhancing inactive/active element ratio. <i>Solid State Ionics</i> , 2019, 337, 47-55.	2.7	10
28	Lithium Intercalated Molybdenum Disulfide-Coated Cotton Thread as a Viable Nerve Tissue Scaffold Candidate. <i>ACS Applied Nano Materials</i> , 2019, 2, 2044-2053.	5.0	9
29	A porous 3D-RGO@MWCNT hybrid material as Li-S battery cathode. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 514-521.	2.8	8
30	ZnS Nanotubes/Carbon Cloth as a Reversible and High-Capacity Anode Material for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 461-466.	3.4	27
31	H <sup>+</sup> Intercalation into Molybdenum Oxide Nanosheets Under AFM Tip Bias. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1700439.	2.4	6
32	Degenerately Hydrogen Doped Molybdenum Oxide Nanodisks for Ultrasensitive Plasmonic Biosensing. <i>Advanced Functional Materials</i> , 2018, 28, 1706006.	14.9	105
33	Preparation and Electrochemical Properties of Pomegranate-Shaped Fe <sub>2</sub> O <sub>3</sub> /C Anodes for Li-ion Batteries. <i>Nanoscale Research Letters</i> , 2018, 13, 344.	5.7	10
34	Stable nanoporous Sn/SnO <sub>2</sub> composites for efficient electroreduction of CO <sub>2</sub> to formate over wide potential range. <i>Applied Materials Today</i> , 2018, 13, 135-143.	4.3	58
35	Synergetic coupling of Pd nanoparticles and amorphous MoS toward highly efficient electrocatalytic hydrogen evolution reactions. <i>Applied Materials Today</i> , 2018, 13, 158-165.	4.3	33
36	Mn <sub>3</sub> O <sub>4</sub> Octahedral Microparticles Prepared by Facile Dealloying Process as Efficient Sulfur Hosts for Lithium/Sulfur Batteries. <i>Metals</i> , 2018, 8, 515.	2.3	3

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37	Simultaneously "pushing" and "pulling" graphene oxide into low-polar solvents through a designed interface. <i>Nanotechnology</i> , 2018, 29, 315707.	2.6	6
38	Amorphous MoS <sub>2</sub> -Coated TiO <sub>2</sub> Nanotube Arrays for Enhanced Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 12589-12597.	3.1	72
39	Transparent Glass with the Growth of Pyramid-Type MoS <sub>2</sub> for Highly Efficient Water Disinfection under Visible-Light Irradiation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 23444-23450.	8.0	48
40	Micro-Spherical Sulfur/Graphene Oxide Composite via Spray Drying for High Performance Lithium Sulfur Batteries. <i>Nanomaterials</i> , 2018, 8, 50.	4.1	43
41	Liquid Phase Acoustic Wave Exfoliation of Layered MoS <sub>2</sub> : Critical Impact of Electric Field in Efficiency. <i>Chemistry of Materials</i> , 2018, 30, 5593-5601.	6.7	31
42	PbTe quantum dots as electron transfer intermediates for the enhanced hydrogen evolution reaction of amorphous MoS <sub>2</sub> /TiO <sub>2</sub> nanotube arrays. <i>Nanoscale</i> , 2018, 10, 10288-10295.	5.6	44
43	Ultrafast Acoustofluidic Exfoliation of Stratified Crystals. <i>Advanced Materials</i> , 2018, 30, e1704756.	21.0	32
44	Selectively nitrogen-doped carbon materials as superior metal-free catalysts for oxygen reduction. <i>Nature Communications</i> , 2018, 9, 3376.	12.8	436
45	Well-dispersed sulfur anchored on interconnected polypyrrole nanofiber network as high performance cathode for lithium-sulfur batteries. <i>Solid State Sciences</i> , 2017, 66, 44-49.	3.2	61
46	MoS <sub>2</sub> /Polymer Nanocomposites: Preparation, Properties, and Applications. <i>Polymer Reviews</i> , 2017, 57, 440-466.	10.9	132
47	Atom-scale dispersed palladium in a conductive Pd <sub>0.1</sub> TaS <sub>2</sub> lattice with a unique electronic structure for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22618-22624.	10.3	23
48	Sonication-Assisted Synthesis of Gallium Oxide Suspensions Featuring Trap State Absorption: Test of Photochemistry. <i>Advanced Functional Materials</i> , 2017, 27, 1702295.	14.9	110
49	Quasi physisorptive two dimensional tungsten oxide nanosheets with extraordinary sensitivity and selectivity to NO <sub>2</sub> . <i>Nanoscale</i> , 2017, 9, 19162-19175.	5.6	81
50	A novel wireless gas sensor based on LTCC technology. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 711-717.	7.8	57
51	Manufacturing Techniques and Surface Engineering of Polymer Based Nanoparticles for Targeted Drug Delivery to Cancer. <i>Nanomaterials</i> , 2016, 6, 26.	4.1	163
52	Efficiently dense hierarchical graphene based aerogel electrode for supercapacitors. <i>Journal of Power Sources</i> , 2016, 324, 188-198.	7.8	92
53	Enhanced quantum efficiency from a mosaic of two dimensional MoS <sub>2</sub> formed onto aminosilane functionalised substrates. <i>Nanoscale</i> , 2016, 8, 12258-12266.	5.6	18
54	Intercalated 2D MoS <sub>2</sub> Utilizing a Simulated Sun Assisted Process: Reducing the HER Overpotential. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2447-2455.	3.1	61

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55	2D MoS <sub>2</sub> PDMS Nanocomposites for NO <sub>2</sub> Separation. <i>Small</i> , 2015, 11, 5035-5040.	10.0	59
56	Enhanced Gas Permeation through Graphene Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13700-13712.	3.1	70
57	Plasmon Resonances of Highly Doped Two-Dimensional MoS <sub>2</sub> . <i>Nano Letters</i> , 2015, 15, 883-890.	9.1	167
58	Liquid Metal/Metal Oxide Frameworks with Incorporated Ga <sub>2</sub> O <sub>3</sub> for Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 1943-1948.	8.0	138
59	Two solvent grinding sonication method for the synthesis of two-dimensional tungsten disulphide flakes. <i>Chemical Communications</i> , 2015, 51, 3770-3773.	4.1	58
60	Anodized nanoporous WO <sub>3</sub> Schottky contact structures for hydrogen and ethanol sensing. <i>Journal of Materials Chemistry A</i> , 2015, 3, 7994-8001.	10.3	71
61	Physisorption-Based Charge Transfer in Two-Dimensional SnS <sub>2</sub> for Selective and Reversible NO <sub>2</sub> Gas Sensing. <i>ACS Nano</i> , 2015, 9, 10313-10323.	14.6	624
62	Targeted delivery of 5-fluorouracil to HT-29 cells using high efficient folic acid-conjugated nanoparticles. <i>Drug Delivery</i> , 2015, 22, 191-198.	5.7	67
63	Microencapsulation of coupled folate and chitosan nanoparticles for targeted delivery of combination drugs to colon. <i>Journal of Microencapsulation</i> , 2015, 32, 40-45.	2.8	49
64	A promising gene delivery system developed from PEGylated MoS <sub>2</sub> nanosheets for gene therapy. <i>Nanoscale Research Letters</i> , 2014, 9, 587.	5.7	77
65	Amorphous carbon enriched with pyridinic nitrogen as an efficient metal-free electrocatalyst for oxygen reduction reaction. <i>Chemical Communications</i> , 2014, 50, 557-559.	4.1	105
66	Ion-Driven Photoluminescence Modulation of Quasi-Two-Dimensional MoS <sub>2</sub> Nanoflakes for Applications in Biological Systems. <i>Nano Letters</i> , 2014, 14, 857-863.	9.1	245
67	Chitosan-Modified PLGA Nanoparticles with Versatile Surface for Improved Drug Delivery. <i>AAPS PharmSciTech</i> , 2013, 14, 585-592.	3.3	211
68	Electrochemical Control of Photoluminescence in Two-Dimensional MoS <sub>2</sub> Nanoflakes. <i>ACS Nano</i> , 2013, 7, 10083-10093.	14.6	282
69	Formation of WO <sub>3</sub> nanotube-based bundles directed by NaHSO <sub>4</sub> and its application in water treatment. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1246-1253.	10.3	106
70	Characterization of metal contacts for two-dimensional MoS <sub>2</sub> nanoflakes. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	144
71	Microencapsulation of nanoparticles with enhanced drug loading for pH-sensitive oral drug delivery for the treatment of colon cancer. <i>Journal of Applied Polymer Science</i> , 2013, 129, 714-720.	2.6	25
72	Review on Recent Progress in Nitrogen-Doped Graphene: Synthesis, Characterization, and Its Potential Applications. <i>ACS Catalysis</i> , 2012, 2, 781-794.	11.2	3,171

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73	Development of chitosan nanoparticles as drug delivery systems for 5-fluorouracil and leucovorin blends. Carbohydrate Polymers, 2011, 85, 698-704.	10.2	142
74	Synthesis and characterization of folate conjugated chitosan and cellular uptake of its nanoparticles in HT-29 cells. Carbohydrate Research, 2011, 346, 801-806.	2.3	102
75	Formulation optimization for high drug loading colonic drug delivery carrier. , 2010, , .		3
76	Physicochemical property and morphology of 5-fluorouracil loaded chitosan nanoparticles. , 2010, , .		5
77	Controlled synthesis of Pt-decorated Au nanostructure and its promoted activity toward formic acid electro-oxidation. Electrochimica Acta, 2009, 54, 4916-4924.	5.2	108
78	Enhanced photocatalytic activity of (La, N) co-doped TiO <sub>2</sub> by TiCl <sub>4</sub> sol-gel autoigniting synthesis. International Journal of Minerals, Metallurgy, and Materials, 2007, 14, 552-557.	0.2	6