

# Yizhan Wang

## List of Publications by Year in descending order

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49  
papers

2,166  
citations

236925

25  
h-index

223800

46  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2540  
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature-Dependent Nucleation and Electrochemical Performance of Zn Metal Anodes. Nano Letters, 2022, 22, 1549-1556.	9.1	39
2	Nucleation Kinetics and Structure Evolution of Quasi-Two-Dimensional ZnO at the Air-Water Interface: An <i>In Situ</i> Time-Resolved Grazing Incidence X-ray Scattering Study. Nano Letters, 2022, 22, 3040-3046.	9.1	7
3	Thickness-Dependent Piezoelectric Property from Quasi-Two-Dimensional Zinc Oxide Nanosheets with Unit Cell Resolution. Research, 2021, 2021, 1519340.	5.7	2
4	Bioresorbable Primary Battery Anodes Built on Core-Double-Shell Zinc Microparticle Networks. ACS Applied Materials & Interfaces, 2021, 13, 14275-14282.	8.0	10
5	Mechanisms of the Planar Growth of Lithium Metal Enabled by the 2D Lattice Confinement from a $Ti_3C_2Tx$ MXene Intermediate Layer. Advanced Functional Materials, 2021, 31, 2010987.	14.9	33
6	Identification of the structural, electronic properties, and ionic diffusion kinetics of $Na_3Cr_2(PO_4)_3$ by first-principles calculations. Electrochimica Acta, 2021, 379, 138157.	5.2	12
7	Magnesium Ion Storage Properties in a Layered $(NH_4)_2V_6O_{16} \cdot 1.5H_2O$ Nanobelt Cathode Material Activated by Lattice Water. ACS Applied Materials & Interfaces, 2021, 13, 30625-30632.	8.0	20
8	Wafer-scale heterostructured piezoelectric bio-organic thin films. Science, 2021, 373, 337-342.	12.6	129
9	Flexible structural changes of the oxocarbon salt $K_2C_6O_6$ during potassium ion insertion: An in-depth first-principles study. Electrochimica Acta, 2021, 383, 138357.	5.2	4
10	Bulk Ferroelectric Metamaterial with Enhanced Piezoelectric and Biomimetic Mechanical Properties from Additive Manufacturing. ACS Nano, 2021, 15, 14903-14914.	14.6	21
11	A Rigid-Flexible Protecting Film with Surface Pits Structure for Dendrite-Free and High-Performance Lithium Metal Anode. Nano Letters, 2021, 21, 7063-7069.	9.1	24
12	Quasi-Two-Dimensional Earth-Abundant Bimetallic Electrocatalysts for Oxygen Evolution Reactions. ACS Energy Letters, 2021, 6, 3367-3375.	17.4	29
13	Vacancy engineering in $VS_2$ nanosheets for ultrafast pseudocapacitive sodium ion storage. Chemical Engineering Journal, 2021, 421, 129715.	12.7	56
14	Designing of Efficient Bifunctional ORR/OER Pt Single-Atom Catalysts Based on O-Terminated MXenes by First-Principles Calculations. ACS Applied Materials & Interfaces, 2021, 13, 52508-52518.	8.0	29
15	Multifunctional Artificial Artery from Direct 3D Printing with Built-in Ferroelectricity and Tissue-Matching Modulus for Real-time Sensing and Occlusion Monitoring. Advanced Functional Materials, 2020, 30, 2002868.	14.9	46
16	Prevention of Hepatic Ischemia-Reperfusion Injury by Carbohydrate-Derived Nanoantioxidants. Nano Letters, 2020, 20, 6510-6519.	9.1	32
17	Two-dimensional nonlayered materials for electrocatalysis. Energy and Environmental Science, 2020, 13, 3993-4016.	30.8	76
18	In vitro study of enhanced photodynamic cancer cell killing effect by nanometer-thick gold nanosheets. Nano Research, 2020, 13, 3217-3223.	10.4	17

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19	Nanoparticle-Decorated Ultrathin La <sub>2</sub> O <sub>3</sub> Nanosheets as an Efficient Electrocatalysis for Oxygen Evolution Reactions. <i>Nano-Micro Letters</i> , 2020, 12, 49.	27.0	51
20	Memristive Behavior Enabled by Amorphous/Crystalline 2D Oxide Heterostructure. <i>Advanced Materials</i> , 2020, 32, e2000801.	21.0	26
21	Ligand-Regulated Uptake of Dipolar-Aromatic Guests by Hydrophobically Assembled Suprasphere Hosts. <i>Journal of the American Chemical Society</i> , 2019, 141, 14078-14082.	13.7	7
22	Bioinspired Synthesis of Quasi-Two-Dimensional Monocrystalline Oxides. <i>Chemistry of Materials</i> , 2019, 31, 9040-9048.	6.7	21
23	Enhanced Ferromagnetism from Organic/Cerium Oxide Hybrid Ultrathin Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 44601-44608.	8.0	8
24	Self-Activated Electrical Stimulation for Effective Hair Regeneration via a Wearable Omnidirectional Pulse Generator. <i>ACS Nano</i> , 2019, 13, 12345-12356.	14.6	90
25	Massive Vacancy Concentration Yields Strong Room-Temperature Ferromagnetism in Two-Dimensional ZnO. <i>Nano Letters</i> , 2019, 19, 7085-7092.	9.1	31
26	Diethyl ether as self-healing electrolyte additive enabled long-life rechargeable aqueous zinc ion batteries. <i>Nano Energy</i> , 2019, 62, 275-281.	16.0	455
27	Implanted Battery-Free Direct-Current Micro-Power Supply from in Vivo Breath Energy Harvesting. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42030-42038.	8.0	54
28	Polyoxometalate-Engineered Building Blocks with Gold Cores for the Self-Assembly of Responsive Water-Soluble Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7083-7087.	13.8	12
29	Polyoxometalate-Engineered Building Blocks with Gold Cores for the Self-Assembly of Responsive Water-Soluble Nanostructures. <i>Angewandte Chemie</i> , 2017, 129, 7189-7193.	2.0	3
30	Host-guest chemistry with water-soluble gold nanoparticle supraspheres. <i>Nature Nanotechnology</i> , 2017, 12, 170-176.	31.5	62
31	Potential applications of polyoxometalates for the discrimination of human papillomavirus in different subtypes. <i>Dalton Transactions</i> , 2016, 45, 15457-15463.	3.3	12
32	A fluorescence-enhanced inorganic probe to detect the peptide and capsid protein of human papillomavirus in vitro. <i>RSC Advances</i> , 2016, 6, 28612-28618.	3.6	11
33	The Two-Step Assemblies of Basic Amino Acid-Rich Peptide with a Highly Charged Polyoxometalate. <i>Chemistry - A European Journal</i> , 2015, 21, 9028-9033.	3.3	20
34	Self-Assembly of an Europium-Containing Polyoxometalate and the Arginine/Lysine-Rich Peptides from Human Papillomavirus Capsid Protein L1 in Forming Luminescence-Enhanced Hybrid Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8321-8328.	3.1	42
35	Selective Binding of Amino Acids on Europium-Substituted Polyoxometalates and the Interaction-Induced Luminescent Enhancement Effect. <i>ChemPlusChem</i> , 2014, 79, 1208-1213.	2.8	21
36	Polyoxometalate complexes for oxidative kinetic resolution of secondary alcohols: unique effects of chiral environment, immobilization and aggregation. <i>Dalton Transactions</i> , 2014, 43, 9177-9188.	3.3	25

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37	Induced circular dichroism of polyoxometalates via electrostatic encapsulation with chiral organic cations. Dalton Transactions, 2014, 43, 13178.	3.3	11
38	Synthesis, Structural Characterization, and Thermoresponsivity of Hybrid Supramolecular Dendrimers Bearing a Polyoxometalate Core. Chemistry - A European Journal, 2013, 19, 11051-11061.	3.3	16
39	Chiral Heteropoly Blues and Controllable Switching of Achiral Polyoxometalate Clusters. Angewandte Chemie - International Edition, 2013, 52, 4577-4581.	13.8	67
40	Fabrication of transparent and luminescent CdTe/TiO <sub>2</sub> hybrid film with enhanced photovoltaic property. Materials Letters, 2013, 107, 60-63.	2.6	7
41	A Photo-driven Polyoxometalate Complex Shuttle and Its Homogeneous Catalysis and Heterogeneous Separation. Journal of the American Chemical Society, 2013, 135, 14500-14503.	13.7	132
42	Polyoxometalate Assemblies: Photo-Responsive Self-Assembly of an Azobenzene-Ended Surfactant-Encapsulated Polyoxometalate Complex for Modulating Catalytic Reactions (Small) Tj ETQqO 0 0 rgBT /Ooel lock 10 Tf 50 537		
43	Charge and Pressure-Tuned Surface Patterning of Surfactant-Encapsulated Polyoxometalate Complexes at the Air-Water Interface. Langmuir, 2012, 28, 14624-14632.	3.5	18
44	Supramolecular assembly of chiral polyoxometalate complexes for asymmetric catalytic oxidation of thioethers. Journal of Materials Chemistry, 2012, 22, 9181.	6.7	49
45	Photo-Responsive Self-Assembly of an Azobenzene-Ended Surfactant-Encapsulated Polyoxometalate Complex for Modulating Catalytic Reactions. Small, 2012, 8, 3105-3110.	10.0	64
46	Self-assembly and ion-trapping properties of inorganic nanocapsule-surfactant hybrid spheres. Soft Matter, 2011, 7, 2668.	2.7	30
47	Surfactant-Encapsulated Polyoxometalates as Immobilized Supramolecular Catalysts for Highly Efficient and Selective Oxidation Reactions. Chemistry - A European Journal, 2010, 16, 1068-1078.	3.3	103
48	Self-Assembly and Structural Evolution of Polyoxometalate-Anchored Dendron Complexes. Chemistry - A European Journal, 2010, 16, 8062-8071.	3.3	60
49	In situ fabrication of flower-like gold nanoparticles in surfactant-polyoxometalate-hybrid spherical assemblies. Chemical Communications, 2010, 46, 3750.	4.1	58