

# Yirui Zhang

## List of Publications by Year in descending order

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27  
papers

1,878  
citations

361413

20  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2265  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable metal hydroxide-organic frameworks for catalysing oxygen evolution. <i>Nature Materials</i> , 2022, 21, 673-680.	27.5	123
2	Tuning the Catalytic Activity of Fe-Phthalocyanine-Based Catalysts for the Oxygen Reduction Reaction by Ligand Functionalization. <i>ACS Catalysis</i> , 2022, 12, 7278-7287.	11.2	30
3	Theory of coupled ion-electron transfer kinetics. <i>Electrochimica Acta</i> , 2021, 367, 137432.	5.2	64
4	Cation-Dependent Interfacial Structures and Kinetics for Outer-Sphere Electron-Transfer Reactions. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4397-4411.	3.1	38
5	pH- and Cation-Dependent Water Oxidation on Rutile RuO <sub>2</sub> (110). <i>Journal of Physical Chemistry C</i> , 2021, 125, 8195-8207.	3.1	45
6	Enhanced Cycling of Ni-Rich Positive Electrodes by Fluorine Modification. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060538.	2.9	10
7	Cation- and pH-Dependent Hydrogen Evolution and Oxidation Reaction Kinetics. <i>Jacs Au</i> , 2021, 1, 1674-1687.	7.9	109
8	Enhancing oxygen reduction electrocatalysis by tuning interfacial hydrogen bonds. <i>Nature Catalysis</i> , 2021, 4, 753-762.	34.4	122
9	Stabilizing electrode-electrolyte interfaces to realize high-voltage Li   LiCoO <sub>2</sub> batteries by a sulfonamide-based electrolyte. <i>Energy and Environmental Science</i> , 2021, 14, 6030-6040.	30.8	84
10	Revealing electrolyte oxidation via carbonate dehydrogenation on Ni-based oxides in Li-ion batteries by in situ Fourier transform infrared spectroscopy. <i>Energy and Environmental Science</i> , 2020, 13, 183-199.	30.8	202
11	The Role of Diphenyl Carbonate Additive on the Interfacial Reactivity of Positive Electrodes in Li-ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 040522.	2.9	8
12	Surface Changes of LiNi <sub>x</sub> Mn <sub>y</sub> Co <sub>1-x-y</sub> O <sub>2</sub> in Li-Ion Batteries Using in Situ Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4024-4031.	3.1	29
13	A scaling law to determine phase morphologies during ion intercalation. <i>Energy and Environmental Science</i> , 2020, 13, 2142-2152.	30.8	43
14	Molecular Design of Stable Sulfamide- and Sulfonamide-Based Electrolytes for Aprotic Li-O <sub>2</sub> Batteries. <i>CheM</i> , 2019, 5, 2630-2641.	11.7	53
15	Enhanced Cycling Performance of Ni-Rich Positive Electrodes (NMC) in Li-Ion Batteries by Reducing Electrolyte Free-Solvent Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 34973-34988.	8.0	63
16	Ligand-Dependent Energetics for Dehydrogenation: Implications in Li-Ion Battery Electrolyte Stability and Selective Oxidation Catalysis of Hydrogen-Containing Molecules. <i>Chemistry of Materials</i> , 2019, 31, 5464-5474.	6.7	28
17	Stability Trend of Metal-Organic Frameworks with Heterometal-Modified Hexanuclear Zr Building Units. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28266-28274.	3.1	19
18	Editors' Choice Coating-Dependent Electrode-Electrolyte Interface for Ni-Rich Positive Electrodes in Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A1022-A1030.	2.9	41

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19	The Effect of Electrode-Electrolyte Interface on the Electrochemical Impedance Spectra for Positive Electrode in Li-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5090-A5098.	2.9	190
20	Layer-Number-Dependent Exciton Recombination Behaviors of MoS <sub>2</sub> Determined by Fluorescence-Lifetime Imaging Microscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18651-18658.	3.1	21
21	High temperature thermal radiation property measurements on large periodic micro-structured nickel surfaces fabricated using a femtosecond laser source. <i>Applied Surface Science</i> , 2018, 450, 200-208.	6.1	5
22	Rapid flame doping of Co to WS <sub>2</sub> for efficient hydrogen evolution. <i>Energy and Environmental Science</i> , 2018, 11, 2270-2277.	30.8	74
23	Light-Driven BiVO <sub>4</sub> C Fuel Cell with Simultaneous Production of H <sub>2</sub> O <sub>2</sub> . <i>Advanced Energy Materials</i> , 2018, 8, 1801158.	19.5	107
24	Understanding activity trends in electrochemical water oxidation to form hydrogen peroxide. <i>Nature Communications</i> , 2017, 8, 701.	12.8	333
25	Triboluminescence modulated by humidity. <i>Journal of Luminescence</i> , 2017, 182, 22-28.	3.1	11
26	A method to measure heat flux in convection using Gardon gauge. <i>Applied Thermal Engineering</i> , 2016, 108, 1357-1361.	6.0	16
27	Enhancement of Triboluminescence in the Presence of CO <sub>2</sub> by Sliding between Silica and Yttria-Stabilized Zirconia. <i>Langmuir</i> , 2015, 31, 8224-8227.	3.5	9