

Yirui Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Understanding activity trends in electrochemical water oxidation to form hydrogen peroxide. Nature Communications, 2017, 8, 701. | 12.8 | 333 |
| 2 | Revealing electrolyte oxidation <i>via</i> carbonate dehydrogenation on Ni-based oxides in Li-ion batteries by <i>in situ</i> Fourier transform infrared spectroscopy. Energy and Environmental Science, 2020, 13, 183-199. | 30.8 | 202 |
| 3 | The Effect of Electrode-Electrolyte Interface on the Electrochemical Impedance Spectra for Positive Electrode in Li-Ion Battery. Journal of the Electrochemical Society, 2019, 166, A5090-A5098. | 2.9 | 190 |
| 4 | Tunable metal hydroxide-organic frameworks for catalysing oxygen evolution. Nature Materials, 2022, 21, 673-680. | 27.5 | 123 |
| 5 | Enhancing oxygen reduction electrocatalysis by tuning interfacial hydrogen bonds. Nature Catalysis, 2021, 4, 753-762. | 34.4 | 122 |
| 6 | Cation- and pH-Dependent Hydrogen Evolution and Oxidation Reaction Kinetics. JACS Au, 2021, 1, 1674-1687. | 7.9 | 109 |
| 7 | Light-Driven BiVO ₄ Fuel Cell with Simultaneous Production of H ₂ O ₂ . Advanced Energy Materials, 2018, 8, 1801158. | 19.5 | 107 |
| 8 | Stabilizing electrode-electrolyte interfaces to realize high-voltage Li LiCoO ₂ batteries by a sulfonamide-based electrolyte. Energy and Environmental Science, 2021, 14, 6030-6040. | 30.8 | 84 |
| 9 | Rapid flame doping of Co to WS ₂ for efficient hydrogen evolution. Energy and Environmental Science, 2018, 11, 2270-2277. | 30.8 | 74 |
| 10 | Theory of coupled ion-electron transfer kinetics. Electrochimica Acta, 2021, 367, 137432. | 5.2 | 64 |
| 11 | Enhanced Cycling Performance of Ni-Rich Positive Electrodes (NMC) in Li-Ion Batteries by Reducing Electrolyte Free-Solvent Activity. ACS Applied Materials & Interfaces, 2019, 11, 34973-34988. | 8.0 | 63 |
| 12 | Molecular Design of Stable Sulfamide- and Sulfonamide-Based Electrolytes for Aprotic Li-O ₂ Batteries. Chem, 2019, 5, 2630-2641. | 11.7 | 53 |
| 13 | pH- and Cation-Dependent Water Oxidation on Rutile RuO ₂ (110). Journal of Physical Chemistry C, 2021, 125, 8195-8207. | 3.1 | 45 |
| 14 | A scaling law to determine phase morphologies during ion intercalation. Energy and Environmental Science, 2020, 13, 2142-2152. | 30.8 | 43 |
| 15 | Editors' Choice Coating-Dependent Electrode-Electrolyte Interface for Ni-Rich Positive Electrodes in Li-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A1022-A1030. | 2.9 | 41 |
| 16 | Cation-Dependent Interfacial Structures and Kinetics for Outer-Sphere Electron-Transfer Reactions. Journal of Physical Chemistry C, 2021, 125, 4397-4411. | 3.1 | 38 |
| 17 | Tuning the Catalytic Activity of Fe-Phthalocyanine-Based Catalysts for the Oxygen Reduction Reaction by Ligand Functionalization. ACS Catalysis, 2022, 12, 7278-7287. | 11.2 | 30 |
| 18 | Surface Changes of LiNi _x Mn _y Co _{1-x-y} O ₂ in Li-Ion Batteries Using <i>In Situ</i> Surface-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 4024-4031. | 3.1 | 29 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | Layer-Number-Dependent Exciton Recombination Behaviors of MoS ₂ Determined by Fluorescence-Lifetime Imaging Microscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18651-18658. | 3.1 | 21 |
| 21 | 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 |
| 22 | A method to measure heat flux in convection using Gardon gauge. <i>Applied Thermal Engineering</i> , 2016, 108, 1357-1361. | 6.0 | 16 |
| 23 | Triboluminescence modulated by humidity. <i>Journal of Luminescence</i> , 2017, 182, 22-28. | 3.1 | 11 |
| 24 | Enhanced Cycling of Ni-Rich Positive Electrodes by Fluorine Modification. <i>Journal of the Electrochemical Society</i> , 2021, 168, 060538. | 2.9 | 10 |
| 25 | Enhancement of Triboluminescence in the Presence of CO ₂ by Sliding between Silica and Yttria-Stabilized Zirconia. <i>Langmuir</i> , 2015, 31, 8224-8227. | 3.5 | 9 |
| 26 | 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 |
| 27 | 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 |