

Wei Li

List of Publications by Year in descending order

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69
papers

6,962
citations

53794

45
h-index

95266

68
g-index

69
all docs

69
docs citations

69
times ranked

8740
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge Transfer of Interfacial Catalysts for Hydrogen Energy. , 2022, 4, 967-977.		35
2	Polyvinyl alcohol coating induced preferred crystallographic orientation in aqueous zinc battery anodes. Nano Energy, 2022, 98, 107269.	16.0	102
3	Low-temperature water electrolysis: fundamentals, progress, and new strategies. Materials Advances, 2022, 3, 5598-5644.	5.4	50
4	High-Entropy Perovskite as a High-Performing Chromium-Tolerant Cathode for Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2022, 14, 24363-24373.	8.0	27
5	Engineering stable Zn-MnO ₂ batteries by synergistic stabilization between the carbon nanofiber core and birnessite-MnO ₂ nanosheets shell. Chemical Engineering Journal, 2021, 405, 126969.	12.7	74
6	Iron Phthalocyanine/Two-Dimensional Metal-Organic Framework Composite Nanosheets for Enhanced Alkaline Hydrogen Evolution. Inorganic Chemistry, 2021, 60, 9987-9995.	4.0	32
7	Degradation of solid oxide electrolysis cells: Phenomena, mechanisms, and emerging mitigation strategies—A review. Journal of Materials Science and Technology, 2020, 55, 35-55.	10.7	133
8	Enhancing chalcopyrite leaching by tetrachloroethylene-assisted removal of sulphur passivation and the mechanism of jarosite formation. Hydrometallurgy, 2020, 191, 105192.	4.3	39
9	Bifunctional 3D Hierarchical Hairy Foam toward Ultrastable Lithium/Sulfur Electrochemistry. Advanced Functional Materials, 2020, 30, 2004650.	14.9	29
10	A high-temperature mixed potential CO gas sensor for <i>in situ</i> combustion control. Journal of Materials Chemistry A, 2020, 8, 20101-20110.	10.3	21
11	Alternating Current Electrophoretic Deposition of Gadolinium Doped Ceria onto Yttrium Stabilized Zirconia: A Study of the Mechanism. ACS Applied Materials & Interfaces, 2020, 12, 11126-11134.	8.0	9
12	Nanosized Fe ₂ Particles Caged in the Hollow Carbon Shell as a Robust Polysulfide Adsorbent and Redox Mediator. ACS Sustainable Chemistry and Engineering, 2020, 8, 3261-3272.	6.7	26
13	In Situ Exsolved Nanoparticles on La _{0.5} Sr _{1.5} Fe _{1.5} Mo _{0.5} O _{6-δ} Anode Enhance the Hydrogen Oxidation Reaction in SOFCs. Journal of the Electrochemical Society, 2020, 167, 024510.	2.9	13
14	Positive Effects of H ₂ O on the Hydrogen Oxidation Reaction on Sr ₂ Fe _{1.5} Mo _{0.5} O _{6-δ} -Based Perovskite Anodes for Solid Oxide Fuel Cells. ACS Catalysis, 2020, 10, 5567-5578.	11.2	20
15	Charging activation and desulfurization of MnS unlock the active sites and electrochemical reactivity for Zn-ion batteries. Nano Energy, 2020, 75, 104869.	16.0	66
16	A study on the electrophoretic deposition of gadolinium doped ceria on polypyrrole coated yttrium stabilized zirconia. Journal of Colloid and Interface Science, 2019, 555, 115-123.	9.4	13
17	Programmed Design of a Lithium-Sulfur Battery Cathode by Integrating Functional Units. Advanced Science, 2019, 6, 1900711.	11.2	44
18	Aqueous electrophoretic deposition of gadolinium doped ceria. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 579, 123717.	4.7	7

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19	Reduced Thermal Expansion and Enhanced Redox Reversibility of $\text{La}_{0.5}\text{Sr}_{1.5}\text{Fe}_{1.5}\text{Mo}_{0.5}\text{O}_{6+\delta}$ Anode Material for Solid Oxide Fuel Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 4244-4254.	5.1	18
20	Interfacial Sites between Cobalt Nitride and Cobalt Act as Bifunctional Catalysts for Hydrogen Electrochemistry. <i>ACS Energy Letters</i> , 2019, 4, 1594-1601.	17.4	128
21	The oxygen evolution reaction enabled by transition metal phosphide and chalcogenide pre-catalysts with dynamic changes. <i>Chemical Communications</i> , 2019, 55, 8744-8763.	4.1	246
22	Ultrafine CoSe nano-crystallites confined in leaf-like N-doped carbon for long-cyclic and fast sodium ion storage. <i>Electrochimica Acta</i> , 2019, 294, 173-182.	5.2	63
23	Trends in activity for the oxygen evolution reaction on transition metal (M = Fe, Co, Ni) phosphide pre-catalysts. <i>Chemical Science</i> , 2018, 9, 3470-3476.	7.4	443
24	Boosting the hydrogen evolution performance of ruthenium clusters through synergistic coupling with cobalt phosphide. <i>Energy and Environmental Science</i> , 2018, 11, 1819-1827.	30.8	350
25	Electrolyzer Design for Flexible Decoupled Water Splitting and Organic Upgrading with Electron Reservoirs. <i>CheM</i> , 2018, 4, 637-649.	11.7	130
26	Nitrogen-Doped Perovskite as a Bifunctional Cathode Catalyst for Rechargeable Lithium-Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5543-5550.	8.0	100
27	Highly-ordered silicon nanowire arrays for photoelectrochemical hydrogen evolution: an investigation on the effect of wire diameter, length and inter-wire spacing. <i>Sustainable Energy and Fuels</i> , 2018, 2, 978-982.	4.9	31
28	Electropolymerization of Aniline on Nickel-Based Electrocatalysts Substantially Enhances Their Performance for Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2018, 1, 3-8.	5.1	50
29	Interfacing nickel nitride and nickel boosts both electrocatalytic hydrogen evolution and oxidation reactions. <i>Nature Communications</i> , 2018, 9, 4531.	12.8	410
30	High-Performance Coral Reef-like Carbon Nitrides: Synthesis and Application in Photocatalysis and Heavy Metal Ion Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4540-4547.	8.0	94
31	Atomic-layer-deposited ultrafine MoS_2 nanocrystals on cobalt foam for efficient and stable electrochemical oxygen evolution. <i>Nanoscale</i> , 2017, 9, 2711-2717.	5.6	88
32	Vapor-solid synthesis of monolithic single-crystalline CoP nanowire electrodes for efficient and robust water electrolysis. <i>Chemical Science</i> , 2017, 8, 2952-2958.	7.4	162
33	One-Step Fabrication of Monolithic Electrodes Comprising Co_9S_8 Particles Supported on Cobalt Foam for Efficient and Durable Oxygen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2017, 23, 8749-8755.	3.3	64
34	Hydrothermal Synthesis of Monolithic Co_3Se_4 Nanowire Electrodes for Oxygen Evolution and Overall Water Splitting with High Efficiency and Extraordinary Catalytic Stability. <i>Advanced Energy Materials</i> , 2017, 7, 1602579.	19.5	267
35	Vertically Aligned Porous Nickel(II) Hydroxide Nanosheets Supported on Carbon Paper with Long-Term Oxygen Evolution Performance. <i>Chemistry - an Asian Journal</i> , 2017, 12, 543-551.	3.3	118
36	Orderly integration of porous $\text{TiO}_2(\text{B})$ nanosheets into bunched hierarchical structure for high-rate and ultralong-lifespan lithium-ion batteries. <i>Nano Energy</i> , 2017, 31, 1-8.	16.0	109

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37	Low-crystallinity molybdenum sulfide nanosheets assembled on carbon nanotubes for long-life lithium storage: Unusual electrochemical behaviors and ascending capacities. <i>Applied Surface Science</i> , 2017, 392, 297-304.	6.1	27
38	Self-supported Co-Ni-P ternary nanowire electrodes for highly efficient and stable electrocatalytic hydrogen evolution in acidic solution. <i>Catalysis Today</i> , 2017, 287, 122-129.	4.4	105
39	Metal-Organic Frameworks and Their Derivatives for Photocatalytic Water Splitting. <i>Inorganics</i> , 2017, 5, 40.	2.7	68
40	Bifunctional Nickel Phosphide Nanocatalysts Supported on Carbon Fiber Paper for Highly Efficient and Stable Overall Water Splitting. <i>Advanced Functional Materials</i> , 2016, 26, 4067-4077.	14.9	591
41	Mesoporous Nitrogen-Modified Titania with Enhanced Dye Adsorption Capacity and Visible Light Photocatalytic Activity. <i>ChemistrySelect</i> , 2016, 1, 4868-4878.	1.5	20
42	Passivation of hematite nanorod photoanodes with a phosphorus overlayer for enhanced photoelectrochemical water oxidation. <i>Nanotechnology</i> , 2016, 27, 375401.	2.6	28
43	From water reduction to oxidation: Janus Co-Ni-P nanowires as high-efficiency and ultrastable electrocatalysts for over 3000 h water splitting. <i>Journal of Power Sources</i> , 2016, 330, 156-166.	7.8	190
44	Facile synthesis of iron phosphide nanorods for efficient and durable electrochemical oxygen evolution. <i>Chemical Communications</i> , 2016, 52, 8711-8714.	4.1	168
45	Efficient and durable electrochemical hydrogen evolution using cocoon-like MoS ₂ with preferentially exposed edges. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 9344-9354.	7.1	74
46	Fast fabrication of self-supported porous nickel phosphide foam for efficient, durable oxygen evolution and overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5639-5646.	10.3	224
47	Flowerlike WSe ₂ and WS ₂ microspheres: one-pot synthesis, formation mechanism and application in heavy metal ion sequestration. <i>Chemical Communications</i> , 2016, 52, 4481-4484.	4.1	81
48	Extremely high arsenic removal capacity for mesoporous aluminium magnesium oxide composites. <i>Environmental Science: Nano</i> , 2016, 3, 94-106.	4.3	123
49	Smart Hybrids of Zn ₂ GeO ₄ Nanoparticles and Ultrathin g-C ₃ N ₄ Layers: Synergistic Lithium Storage and Excellent Electrochemical Performance. <i>Advanced Functional Materials</i> , 2015, 25, 6858-6866.	14.9	182
50	Preparation and Room Temperature Gas Sensing Study of Tungsten Oxide Nanowires/PEDOT/PSS Hybrid Materials. <i>Ferroelectrics</i> , 2015, 477, 93-102.	0.6	12
51	Solvothermal Growth of Bismuth Chalcogenide Nanoplatelets by the Oriented Attachment Mechanism: An in Situ PXRD Study. <i>Chemistry of Materials</i> , 2015, 27, 3471-3482.	6.7	51
52	Glucose-assisted synthesis of the hierarchical TiO ₂ nanowire@MoS ₂ nanosheet nanocomposite and its synergistic lithium storage performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2762-2769.	10.3	142
53	Hierarchically Porous Titania Networks with Tunable Anatase:Rutile Ratios and Their Enhanced Photocatalytic Activities. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 13129-13137.	8.0	73
54	Versatile inorganic-organic hybrid WO _x -ethylenediamine nanowires: Synthesis, mechanism and application in heavy metal ion adsorption and catalysis. <i>Nano Research</i> , 2014, 7, 903-916.	10.4	59

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55	Copper germanate nanowire/reduced graphene oxide anode materials for high energy lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11404.	10.3	73
56	Metal silicate nanotubes with nanostructured walls as superb adsorbents for uranyl ions and lead ions in water. <i>Journal of Materials Chemistry</i> , 2012, 22, 17222.	6.7	125
57	Low-cost synthesis of graphitic carbon nanofibers as excellent room temperature sensors for explosive gases. <i>Journal of Materials Chemistry</i> , 2012, 22, 15342.	6.7	114
58	Cubic nickel frames: one-pot synthesis, magnetic properties and application in water treatment. <i>CrystEngComm</i> , 2012, 14, 7616.	2.6	21
59	Low-cost and large-scale synthesis of alkaline earth metal germanate nanowires as a new class of lithium ion battery anode material. <i>Energy and Environmental Science</i> , 2012, 5, 8007.	30.8	111
60	Low-cost synthesis of robust anatase polyhedral structures with a preponderance of exposed {001} facets for enhanced photoactivities. <i>Nano Research</i> , 2012, 5, 434-442.	10.4	46
61	Chrysanthemum-like FeOOH microspheres produced by a simple green method and their outstanding ability in heavy metal ion removal. <i>Journal of Materials Chemistry</i> , 2011, 21, 7878.	6.7	158
62	Mesoporous $\text{Ce}_{1-x}\text{Zr}_x\text{O}_2$ solid solution nanofibers as high efficiency catalysts for the catalytic combustion of VOCs. <i>Journal of Materials Chemistry</i> , 2011, 21, 12836.	6.7	46
63	Fabrication of nanostructured metal nitrides with tailored composition and morphology. <i>Chemical Communications</i> , 2011, 47, 3619.	4.1	50
64	Superb fluoride and arsenic removal performance of highly ordered mesoporous aluminas. <i>Journal of Hazardous Materials</i> , 2011, 198, 143-150.	12.4	137
65	Nanoporous Nickel Spheres as Highly Active Catalyst for Hydrogen Generation from Ammonia Borane. <i>ChemSusChem</i> , 2010, 3, 1241-1244.	6.8	73
66	Enhanced catalytic activity of perovskite oxide nanofibers for combustion of methane in coal mine ventilation air. <i>Journal of Materials Chemistry</i> , 2010, 20, 6968.	6.7	41
67	Programmed Fabrication of Metal Oxides Nanostructures Using Dual Templates to Spatially Disperse Metal Oxide Nanocrystals. <i>Chemistry of Materials</i> , 2010, 22, 414-419.	6.7	41
68	Hydrophilic TiO_2 porous spheres anchored on hydrophobic polypropylene membrane for wettability induced high photodegrading activities. <i>Nanoscale</i> , 2010, 2, 1480.	5.6	30
69	Synthesis of Porous and Graphitic Carbon for Electrochemical Detection. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20594-20598.	3.1	67