

Zhenhua Li

List of Publications by Year in descending order

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53
papers

5,134
citations

94433

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times ranked

6375
citing authors

#	ARTICLE	IF	CITATIONS
1	Directed Growth of Metal-Organic Frameworks and Their Derived Carbon-Based Network for Efficient Electrocatalytic Oxygen Reduction. <i>Advanced Materials</i> , 2016, 28, 2337-2344.	21.0	448
2	Fast electrosynthesis of Fe-containing layered double hydroxide arrays toward highly efficient electrocatalytic oxidation reactions. <i>Chemical Science</i> , 2015, 6, 6624-6631.	7.4	378
3	Interface engineering of (Ni, Fe)S ₂ @MoS ₂ heterostructures for synergetic electrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 247, 107-114.	20.2	378
4	Layered double hydroxides toward electrochemical energy storage and conversion: design, synthesis and applications. <i>Chemical Communications</i> , 2015, 51, 15880-15893.	4.1	361
5	A flexible all-solid-state micro-supercapacitor based on hierarchical CuO@layered double hydroxide core-shell nanoarrays. <i>Nano Energy</i> , 2016, 20, 294-304.	16.0	300
6	Electrocatalytic upcycling of polyethylene terephthalate to commodity chemicals and H ₂ fuel. <i>Nature Communications</i> , 2021, 12, 4679.	12.8	226
7	Au nanoparticles sensitized ZnO nanorod@nanoplatelet core-shell arrays for enhanced photoelectrochemical water splitting. <i>Nano Energy</i> , 2015, 12, 231-239.	16.0	175
8	Hierarchical NiFe Layered Double Hydroxide Hollow Microspheres with Highly-Efficient Behavior toward Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33697-33703.	8.0	175
9	Alcohols electrooxidation coupled with H ₂ production at high current densities promoted by a cooperative catalyst. <i>Nature Communications</i> , 2022, 13, 147.	12.8	133
10	Directed synthesis of carbon nanotube arrays based on layered double hydroxides toward highly-efficient bifunctional oxygen electrocatalysis. <i>Nano Energy</i> , 2017, 37, 98-107.	16.0	129
11	Carbon modified transition metal oxides/hydroxides nanoarrays toward high-performance flexible all-solid-state supercapacitors. <i>Nano Energy</i> , 2017, 41, 408-416.	16.0	126
12	Carbon-based electrocatalyst derived from bimetallic metal-organic framework arrays for high performance oxygen reduction. <i>Nano Energy</i> , 2016, 25, 100-109.	16.0	124
13	Confined Synthesis of 2D Nanostructured Materials toward Electrocatalysis. <i>Advanced Energy Materials</i> , 2020, 10, 1900486.	19.5	123
14	Hierarchical Conducting Polymer@Clay Core-Shell Arrays for Flexible All-Solid-State Supercapacitor Devices. <i>Small</i> , 2015, 11, 3530-3538.	10.0	116
15	Ordered-Vacancy-Induced Cation Intercalation into Layered Double Hydroxides: A General Approach for High-Performance Supercapacitors. <i>CheM</i> , 2018, 4, 2168-2179.	11.7	105
16	Layer-by-layer assembly of exfoliated layered double hydroxide nanosheets for enhanced electrochemical oxidation of water. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11516-11523.	10.3	104
17	Oxygen-rich carbon nanotube networks for enhanced lithium metal anode. <i>Energy Storage Materials</i> , 2018, 15, 308-314.	18.0	100
18	Polysulfide Confinement and Highly Efficient Conversion on Hierarchical Mesoporous Carbon Nanosheets for Li-S Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1901935.	19.5	93

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19	Selectively Upgrading Lignin Derivatives to Carboxylates through Electrochemical Oxidative C(OH) ⁺ C Bond Cleavage by a Mn ^{II} -Doped Cobalt Oxyhydroxide Catalyst. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8976-8982.	13.8	93
20	2020 Roadmap on two-dimensional nanomaterials for environmental catalysis. <i>Chinese Chemical Letters</i> , 2019, 30, 2065-2088.	9.0	90
21	Ultrathin layered double hydroxides nanosheets array towards efficient electrooxidation of 5-hydroxymethylfurfural coupled with hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120669.	20.2	83
22	Boosting Hydrogen Production by Electrooxidation of Urea over 3D Hierarchical Ni ₄ N/Cu ₃ N Nanotube Arrays. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13278-13285.	6.7	80
23	Selective Photoelectrocatalytic Glycerol Oxidation to Dihydroxyacetone via Enhanced Middle Hydroxyl Adsorption over a Bi ₂ O ₃ -Incorporated Catalyst. <i>Journal of the American Chemical Society</i> , 2022, 144, 7720-7730.	13.7	80
24	Host Modification of Layered Double Hydroxide Electrocatalyst to Boost the Thermodynamic and Kinetic Activity of Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2009743.	14.9	71
25	Mesoporous graphene-layered double hydroxides free-standing films for enhanced flexible supercapacitors. <i>Chemical Engineering Journal</i> , 2016, 289, 85-92.	12.7	68
26	Photoelectrocatalytic C-H halogenation over an oxygen vacancy-rich TiO ₂ photoanode. <i>Nature Communications</i> , 2021, 12, 6698.	12.8	68
27	Super-stable mineralization of cadmium by calcium-aluminum layered double hydroxide and its large-scale application in agriculture soil remediation. <i>Chemical Engineering Journal</i> , 2021, 407, 127178.	12.7	67
28	NiBi intermetallic compounds catalyst toward selective hydrogenation of unsaturated aldehydes. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119273.	20.2	57
29	An Electrocatalytic Strategy for C-C Bond Cleavage in Lignin Model Compounds and Lignin under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1932-1940.	6.7	49
30	Plastic Waste Valorization by Leveraging Multidisciplinary Catalytic Technologies. <i>ACS Catalysis</i> , 2022, 12, 9307-9324.	11.2	47
31	Ultrathin Mesoporous Co ₃ O ₄ Nanosheet Arrays for High-Performance Lithium-Ion Batteries. <i>ACS Omega</i> , 2018, 3, 1675-1683.	3.5	46
32	Recycling-oriented cathode materials design for lithium-ion batteries: Elegant structures versus complicated compositions. <i>Energy Storage Materials</i> , 2021, 41, 380-394.	18.0	46
33	Layered double hydroxides and their derivatives for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23738-23755.	10.3	45
34	Active-Oxygen-Enhanced Homogeneous Nucleation of Lithium Metal on Ultrathin Layered Double Hydroxide. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3962-3966.	13.8	44
35	Confinement Synthesis Based on Layered Double Hydroxides: A New Strategy to Construct Single-Atom-Containing Integrated Electrodes. <i>Advanced Functional Materials</i> , 2021, 31, 2008064.	14.9	43
36	Electrosynthesis of Well-Defined Metal-Organic Framework Films and the Carbon Nanotube Network Derived from Them toward Electrocatalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34494-34501.	8.0	42

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37	An atomic-confined-space separator for high performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1896-1903.	10.3	41
38	Mass-loading independent electrocatalyst with high performance for oxygen reduction reaction and Zn-air battery based on Co-N-codoped carbon nanotube assembled microspheres. <i>Chemical Engineering Journal</i> , 2019, 373, 734-743.	12.7	40
39	Electrocatalytic oxidative upgrading of biomass platform chemicals: from the aspect of reaction mechanism. <i>Chemical Communications</i> , 2022, 58, 897-907.	4.1	39
40	Photoelectrochemical Catalysis toward Selective Anaerobic Oxidation of Alcohols. <i>Chemistry - A European Journal</i> , 2017, 23, 8142-8147.	3.3	35
41	Layered double hydroxide-based core-shell nanoarrays for efficient electrochemical water splitting. <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 537-554.	4.4	33
42	Highly efficient metal-free electrocatalysts toward oxygen reduction derived from carbon nanotubes@polypyrrole core-shell hybrids. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18008-18014.	10.3	25
43	Atom-economical construction of carbon nanotube architectures for flexible supercapacitors with ultrahigh areal and volumetric capacities. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21287-21294.	10.3	24
44	Controllable synthesis of core-shell Co@C@SiO ₂ catalysts for enhancing product selectivity in Fischer-Tropsch synthesis by tuning the mass transfer resistance. <i>Journal of Energy Chemistry</i> , 2020, 51, 199-206.	12.9	24
45	A bifunctional nonenzymatic flexible glucose microsensor based on CoFe-Layered double hydroxide. <i>Nanoscale Advances</i> , 2019, 1, 948-952.	4.6	23
46	Phase engineering of cobalt hydroxide toward cation intercalation. <i>Chemical Science</i> , 2021, 12, 1756-1761.	7.4	23
47	Selectively Upgrading Lignin Derivatives to Carboxylates through Electrochemical Oxidative C(OH)-C Bond Cleavage by a Mn-Doped Cobalt Oxyhydroxide Catalyst. <i>Angewandte Chemie</i> , 2021, 133, 9058-9064.	2.0	22
48	Confinement of Zinc Salt in Ultrathin Heterogeneous Film to Stabilize Zinc Metal Anode. <i>Small</i> , 2021, 17, e2100722.	10.0	22
49	Efficient photocatalytic epoxidation of styrene over a quantum-sized SnO ₂ on carbon nitride as a heterostructured catalyst. <i>Applied Catalysis B: Environmental</i> , 2022, 309, 121268.	20.2	22
50	Fluorine enhanced nucleophilicity of TiO ₂ nanorod arrays: A general approach for dendrite-free anodes towards high-performance metal batteries. <i>Nano Energy</i> , 2022, 93, 106837.	16.0	21
51	Active-Oxygen-Enhanced Homogeneous Nucleation of Lithium Metal on Ultrathin Layered Double Hydroxide. <i>Angewandte Chemie</i> , 2019, 131, 4002-4006.	2.0	13
52	Supercapacitors: Hierarchical Conducting Polymer@Clay Core-Shell Arrays for Flexible All-Solid-State Supercapacitor Devices (<i>Small</i> 29/2015). <i>Small</i> , 2015, 11, 3529-3529.	10.0	11
53	Metal vacancy-enriched layered double hydroxide for biomass molecule electrooxidation coupled with hydrogen production. <i>Fundamental Research</i> , 2024, 4, 69-76.	3.3	2