

Hanfeng Liang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

7,755
citations

39
h-index

88
g-index

93
ext. papers

9,722
ext. citations

11.8
avg, IF

6.54
L-index

#	Paper	IF	Citations
84	Electrostatic Shielding Regulation of Magnetron Sputtered Al-Based Alloy Protective Coatings Enables Highly Reversible Zinc Anodes.. <i>Nano Letters</i> , 2022 ,	11.5	9
83	Ionically Conductive Tunnels in h-WO Enable High-Rate NH Storage.. <i>Advanced Science</i> , 2022 , e2105158	13.6	6
82	Surface and Interface Engineering of Zn Anodes in Aqueous Rechargeable Zn-Ion Batteries.. <i>Small</i> , 2022 , e2200006	11	11
81	Preferred Orientation of TiN Coatings Enables Stable Zinc Anodes. <i>ACS Energy Letters</i> , 2022 , 7, 197-203	20.1	13
80	Co-Solvent Electrolyte Engineering for Stable Anode-Free Zinc Metal Batteries.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	24
79	Recent progress in advanced flexible zinc ion battery design. <i>Applied Physics Reviews</i> , 2022 , 9, 021304	17.3	5
78	Simultaneous electrocatalytic hydrogen production and hydrazine removal from acidic waste water. <i>Chemical Engineering Science</i> , 2022 , 258, 117769	4.4	0
77	Tungsten Blue Oxide as a Reusable Electrocatalyst for Acidic Water Oxidation by Plasma-Induced Vacancy Engineering. <i>CCS Chemistry</i> , 2021 , 3, 1553-1561	7.2	8
76	Tuning the electronic structure of NiMoO ₄ by coupling with SnO ₂ for high-performance hybrid supercapacitors. <i>Chemical Engineering Journal</i> , 2021 , 409, 128297	14.7	10
75	All nitride asymmetric supercapacitors of niobium titanium nitride-vanadium nitride. <i>Journal of Power Sources</i> , 2021 , 481, 228842	8.9	16
74	MXenes for Rechargeable Batteries Beyond the Lithium-Ion. <i>Advanced Materials</i> , 2021 , 33, e2004039	24	71
73	Construction of hydroxide pn junction for water splitting electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120160	21.8	19
72	NiCo/NiCoDH and NiFe/NiFeDH core shell nanostructures for water splitting electrocatalysis at large currents. <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119326	21.8	68
71	Review of MXene electrochemical microsupercapacitors. <i>Energy Storage Materials</i> , 2020 , 27, 78-95	19.4	105
70	Made-to-order porous electrodes for supercapacitors: MOFs embedded with redox-active centers as a case study. <i>Chemical Communications</i> , 2020 , 56, 1883-1886	5.8	19
69	Autonomous MXene-PVDF actuator for flexible solar trackers. <i>Nano Energy</i> , 2020 , 77, 105277	17.1	12
68	MXene hydrogels: fundamentals and applications. <i>Chemical Society Reviews</i> , 2020 , 49, 7229-7251	58.5	135

67	Accelerating the water splitting kinetics of CoP microcubes anchored on a graphene electrocatalyst by Mn incorporation. <i>Nanoscale Advances</i> , 2019 , 1, 177-183	5.1	15
66	Construction of 3D Si@Ti@TiN thin film arrays for aqueous symmetric supercapacitors. <i>Chemical Communications</i> , 2019 , 55, 1402-1405	5.8	19
65	A novel strategy for the synthesis of highly stable ternary SiO _x composites for Li-ion-battery anodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15969-15974	13	89
64	On-Chip MXene Microsupercapacitors for AC-Line Filtering Applications. <i>Advanced Energy Materials</i> , 2019 , 9, 1901061	21.8	64
63	Supermolecule Self-Assembly Promoted Porous N, P Co-Doped Reduced Graphene Oxide for High Energy Density Supercapacitors. <i>ACS Applied Energy Materials</i> , 2019 , 2, 4084-4091	6.1	21
62	Porous MXenes enable high performance potassium ion capacitors. <i>Nano Energy</i> , 2019 , 62, 853-860	17.1	115
61	Aqueous Zinc-Ion Storage in MoS ₂ by Tuning the Intercalation Energy. <i>Nano Letters</i> , 2019 , 19, 3199-3206	11.5	223
60	Rational Design of Manganese Cobalt Phosphide with Yolk@Shell Structure for Overall Water Splitting. <i>Energy Technology</i> , 2019 , 7, 1900066	3.5	6
59	Partially Reduced Holey Graphene Oxide as High Performance Anode for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019 , 9, 1803215	21.8	68
58	Phosphine plasma activation of Fe ₂ O ₃ for high energy asymmetric supercapacitors. <i>Nano Energy</i> , 2018 , 49, 155-162	17.1	123
57	Magnetron sputtered TiN thin films toward enhanced performance supercapacitor electrodes. <i>Materials for Renewable and Sustainable Energy</i> , 2018 , 7, 1	4.7	16
56	Porous CrN thin films by selectively etching CrCuN for symmetric supercapacitors. <i>Journal of Power Sources</i> , 2018 , 385, 39-44	8.9	34
55	Bimetallic vanadium-molybdenum nitrides using magnetron co-sputtering as alkaline hydrogen evolution catalyst. <i>Electrochemistry Communications</i> , 2018 , 93, 166-170	5.1	19
54	Solution synthesis of VSe ₂ nanosheets and their alkali metal ion storage performance. <i>Nano Energy</i> , 2018 , 53, 11-16	17.1	69
53	Applications of Plasma in Energy Conversion and Storage Materials. <i>Advanced Energy Materials</i> , 2018 , 8, 1801804	21.8	47
52	Direct Synthesis and Anion Exchange of Noncarbonate-Intercalated NiFe-Layered Double Hydroxides and the Influence on Electrocatalysis. <i>Chemistry of Materials</i> , 2018 , 30, 4321-4330	9.6	75
51	One-step synthesis of graphitic-C ₃ N ₄ /ZnS composites for enhanced supercapacitor performance. <i>Journal of Energy Chemistry</i> , 2018 , 27, 472-477	12	50
50	Rechargeable Aqueous Zinc-Ion Battery Based on Porous Framework Zinc Pyrovanadate Intercalation Cathode. <i>Advanced Materials</i> , 2018 , 30, 1705580	24	523

49	Layered Mg _x V ₂ O ₅ ·nH ₂ O as Cathode Material for High-Performance Aqueous Zinc Ion Batteries. <i>ACS Energy Letters</i> , 2018 , 3, 2602-2609	20.1	381
48	Bimetallic MnCo selenide yolk shell structures for efficient overall water splitting. <i>Electrochimica Acta</i> , 2018 , 290, 82-89	6.7	35
47	Large Intercalation Pseudocapacitance in 2D VO (B): Breaking through the Kinetic Barrier. <i>Advanced Materials</i> , 2018 , 30, e1803594	24	32
46	Active Edge Sites Engineering in Nickel Cobalt Selenide Solid Solutions for Highly Efficient Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2017 , 7, 1602089	21.8	145
45	Amorphous NiFe-OH/NiFeP Electrocatalyst Fabricated at Low Temperature for Water Oxidation Applications. <i>ACS Energy Letters</i> , 2017 , 2, 1035-1042	20.1	369
44	Efficient Overall Water-Splitting Electrocatalysis Using Lepidocrocite VOOH Hollow Nanospheres. <i>Angewandte Chemie</i> , 2017 , 129, 588-592	3.6	50
43	Efficient Overall Water-Splitting Electrocatalysis Using Lepidocrocite VOOH Hollow Nanospheres. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 573-577	16.4	170
42	A Plasma-Assisted Route to the Rapid Preparation of Transition-Metal Phosphides for Energy Conversion and Storage. <i>Small Methods</i> , 2017 , 1, 1700111	12.8	27
41	Low temperature synthesis of ternary metal phosphides using plasma for asymmetric supercapacitors. <i>Nano Energy</i> , 2017 , 35, 331-340	17.1	242
40	CrN thin films prepared by reactive DC magnetron sputtering for symmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 2844-2851	13	54
39	Solution Growth of Screw Dislocation Driven ZnGaOOH Nanorod Arrays and Their Conversion to Porous ZnGa ₂ O ₄ Nanotubes. <i>Chemistry of Materials</i> , 2017 , 29, 7278-7287	9.6	15
38	Hierarchical (Ni,Co)Se ₂ /Carbon Hollow Rhombic Dodecahedra Derived from Metal-Organic Frameworks for Efficient Water-Splitting Electrocatalysis. <i>Electrochimica Acta</i> , 2017 , 250, 167-173	6.7	51
37	Layered SnS sodium ion battery anodes synthesized near room temperature. <i>Nano Research</i> , 2017 , 10, 4368-4377	10	50
36	Prussian Blue Analogues Derived Penroseite (Ni,Co)Se ₂ Nanocages Anchored on 3D Graphene Aerogel for Efficient Water Splitting. <i>ACS Catalysis</i> , 2017 , 7, 6394-6399	13.1	177
35	MOF-derived Co-doped nickel selenide/C electrocatalysts supported on Ni foam for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 15148-15155	13	236
34	SnSe ₂ 2D Anodes for Advanced Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1601188	21.8	192
33	Plasma-Assisted Synthesis of NiCoP for Efficient Overall Water Splitting. <i>Nano Letters</i> , 2016 , 16, 7718-7725	25	812
32	Lithium copper/manganese titanate anode material for rechargeable lithium-ion batteries. <i>Materials Chemistry and Physics</i> , 2016 , 169, 128-135	4.4	2

31	Layer-tunable LaCO ₃ OH microstructures and their photoluminescence property. <i>Materials Letters</i> , 2016 , 175, 184-187	3.3	1
30	Hydrothermal synthesis of cobalt-doped ZnS for efficient photodegradation of methylene blue. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 325, 62-67	4.7	30
29	Solution Growth of Vertical VS ₂ Nanoplate Arrays for Electrocatalytic Hydrogen Evolution. <i>Chemistry of Materials</i> , 2016 , 28, 5587-5591	9.6	141
28	Porous Two-Dimensional Nanosheets Converted From Layered Double Hydroxides and Their Applications in Electrocatalytic Water Splitting. <i>Chemistry of Materials</i> , 2015 , 27, 5702-5711	9.6	237
27	X-shaped hollow γ -FeOOH penetration twins and their conversion to γ -Fe ₂ O ₃ nanocrystals bound by high-index facets with enhanced photocatalytic activity. <i>Chemical Engineering Journal</i> , 2015 , 274, 224-230	14.7	31
26	Controlled synthesis of layered double hydroxide nanoplates driven by screw dislocations. <i>Nano Letters</i> , 2015 , 15, 3403-9	11.5	82
25	High-Performance Electrocatalysis for Hydrogen Evolution Reaction Using Se-Doped Pyrite-Phase Nickel Diphosphide Nanostructures. <i>ACS Catalysis</i> , 2015 , 5, 6355-6361	13.1	217
24	Operando Analysis of NiFe and Fe Oxyhydroxide Electrocatalysts for Water Oxidation: Detection of Fe ^{III} by Mössbauer Spectroscopy. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15090-3	16.4	508
23	Observation of the structural changes of sol-gel formed Li ₂ MnTi ₃ O ₈ during electrochemical reaction by in-situ and ex-situ studies. <i>Electrochimica Acta</i> , 2015 , 152, 187-194	6.7	34
22	Enhanced electrochemical properties of lithium cobalt titanate via lithium-site substitution with sodium. <i>Electrochimica Acta</i> , 2015 , 174, 1202-1215	6.7	9
21	High performance Na-doped lithium zinc titanate as anode material for Li-ion batteries. <i>RSC Advances</i> , 2015 , 5, 49890-49898	3.7	51
20	Hydrothermal continuous flow synthesis and exfoliation of NiCo layered double hydroxide nanosheets for enhanced oxygen evolution catalysis. <i>Nano Letters</i> , 2015 , 15, 1421-7	11.5	767
19	Lithium storage mechanism in cubic lithium copper titanate anode material upon lithiation/delithiation process. <i>Journal of Power Sources</i> , 2015 , 281, 56-68	8.9	12
18	γ -Fe ₂ O ₃ /Pt hybrid nanorings and their enhanced photocatalytic activities. <i>Ceramics International</i> , 2014 , 40, 5653-5658	5.1	20
17	Lithium storage behavior of manganese based complex spinel titanate as anode material for Li-ion batteries. <i>Journal of Power Sources</i> , 2014 , 272, 622-628	8.9	20
16	Hematite concave nanocubes and their superior catalytic activity for low temperature CO oxidation. <i>Nanoscale</i> , 2014 , 6, 7199-203	7.7	33
15	Synthesis of 2D hollow hematite microplatelets with tuneable porosity and their comparative photocatalytic activities. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 4340	13	38
14	Facile synthesis of hematite nanostructures with controlled hollowness and porosity and their comparative photocatalytic activities. <i>CrystEngComm</i> , 2014 , 16, 959-963	3.3	32

13	Solid state synthesis of $\text{Li}_2\text{Co}_0.5\text{Cu}_0.5\text{Ti}_3\text{O}_8$ and $\text{Li}_2\text{CoTi}_3\text{O}_8$ and their comparative lithium storage properties. <i>Ceramics International</i> , 2014 , 40, 13757-13761	5.1	14
12	Complex spinel titanate as an advanced anode material for rechargeable lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2014 , 611, 65-73	5.7	31
11	Effects of Biomolecules on the Selectivity of Biosynthesized Pd/MgO Catalyst toward Selective Oxidation of Benzyl Alcohol. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 19128-19135	3.9	11
10	Hydrothermal synthesis, self-assembly and electrochemical performance of $\alpha\text{-Fe}_2\text{O}_3$ microspheres for lithium ion batteries. <i>Ceramics International</i> , 2014 , 40, 10283-10290	5.1	39
9	Synthesis and adsorption behavior of chitosan-coated MnFe_2O_4 nanoparticles for trace heavy metal ions removal. <i>Applied Surface Science</i> , 2013 , 285, 498-504	6.7	66
8	Self-assembled 3D flower-like $\alpha\text{-Fe}_2\text{O}_3$ microstructures and their superior capability for heavy metal ion removal. <i>Materials Chemistry and Physics</i> , 2013 , 141, 727-734	4.4	41
7	Facile synthesis and photocatalytic activity of cocoon-like hollow hematite nanostructures. <i>Materials Letters</i> , 2013 , 96, 12-15	3.3	15
6	MnFe_2O_4 /chitosan nanocomposites as a recyclable adsorbent for the removal of hexavalent chromium. <i>Materials Research Bulletin</i> , 2013 , 48, 3910-3915	5.1	43
5	Adsorption of bovine serum albumin on functionalized silica-coated magnetic MnFe_2O_4 nanoparticles. <i>Materials Chemistry and Physics</i> , 2010 , 124, 964-969	4.4	39
4	Template-free synthesis and characterization of snowflake-like $\alpha\text{-Fe}_2\text{O}_3$ microstructures. <i>Materials Letters</i> , 2010 , 64, 2410-2412	3.3	12
3	Recent advances in anode materials for potassium-ion batteries: A review. <i>Nano Research</i> , 1	10	23
2	Conversion of hydroxide into carbon-coated phosphide using plasma for sodium ion batteries. <i>Nano Research</i> , 1	10	1
1	Hydrogen production by electrocatalysis using the reaction of acidic oxygen evolution: a review. <i>Environmental Chemistry Letters</i> ,	13.3	1