Hanfeng Liang

List of Publications by Citations

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	Plasma-Assisted Synthesis of NiCoP for Efficient Overall Water Splitting. *Nano Letters*, **2016**, 16, 7718-7725	11.5	812
83	Hydrothermal continuous flow synthesis and exfoliation of NiCo layered double hydroxide nanosheets for enhanced oxygen evolution catalysis. *Nano Letters*, **2015**, 15, 1421-7	11.5	767
82	Rechargeable Aqueous Zinc-Ion Battery Based on Porous Framework Zinc Pyrovanadate Intercalation Cathode. *Advanced Materials*, **2018**, 30, 1705580	24	523
81	Operando Analysis of NiFe and Fe Oxyhydroxide Electrocatalysts for Water Oxidation: Detection of Fe by Mössbauer Spectroscopy. *Journal of the American Chemical Society*, **2015**, 137, 15090-3	16.4	508
80	Layered MgxV2O5nH2O as Cathode Material for High-Performance Aqueous Zinc Ion Batteries. *ACS Energy Letters*, **2018**, 3, 2602-2609	20.1	381
79	Amorphous NiFe-OH/NiFeP Electrocatalyst Fabricated at Low Temperature for Water Oxidation Applications. *ACS Energy Letters*, **2017**, 2, 1035-1042	20.1	369
78	Low temperature synthesis of ternary metal phosphides using plasma for asymmetric supercapacitors. *Nano Energy*, **2017**, 35, 331-340	17.1	242
77	Porous Two-Dimensional Nanosheets Converted from Layered Double Hydroxides and Their Applications in Electrocatalytic Water Splitting. *Chemistry of Materials*, **2015**, 27, 5702-5711	9.6	237
76	MOF-derived Co-doped nickel selenide/C electrocatalysts supported on Ni foam for overall water splitting. *Journal of Materials Chemistry A*, **2016**, 4, 15148-15155	13	236
75	Aqueous Zinc-Ion Storage in MoS by Tuning the Intercalation Energy. *Nano Letters*, **2019**, 19, 3199-3206	11.5	223
74	High-Performance Electrocatalysis for Hydrogen Evolution Reaction Using Se-Doped Pyrite-Phase Nickel Diphosphide Nanostructures. *ACS Catalysis*, **2015**, 5, 6355-6361	13.1	217
73	SnSe2 2D Anodes for Advanced Sodium Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1601188	21.8	192
72	Prussian Blue Analogues Derived Penroseite (Ni,Co)Se2 Nanocages Anchored on 3D Graphene Aerogel for Efficient Water Splitting. *ACS Catalysis*, **2017**, 7, 6394-6399	13.1	177
71	Efficient Overall Water-Splitting Electrocatalysis Using Lepidocrocite VOOH Hollow Nanospheres. *Angewandte Chemie - International Edition*, **2017**, 56, 573-577	16.4	170
70	Active Edge Sites Engineering in Nickel Cobalt Selenide Solid Solutions for Highly Efficient Hydrogen Evolution. *Advanced Energy Materials*, **2017**, 7, 1602089	21.8	145
69	Solution Growth of Vertical VS2 Nanoplate Arrays for Electrocatalytic Hydrogen Evolution. *Chemistry of Materials*, **2016**, 28, 5587-5591	9.6	141
68	MXene hydrogels: fundamentals and applications. *Chemical Society Reviews*, **2020**, 49, 7229-7251	58.5	135

67	Phosphine plasma activation of □Fe2O3 for high energy asymmetric supercapacitors. *Nano Energy*, **2018**, 49, 155-162	17.1	123
66	Porous MXenes enable high performance potassium ion capacitors. *Nano Energy*, **2019**, 62, 853-860	17.1	115
65	Review of MXene electrochemical microsupercapacitors. *Energy Storage Materials*, **2020**, 27, 78-95	19.4	105
64	A novel strategy for the synthesis of highly stable ternary SiOx composites for Li-ion-battery anodes. *Journal of Materials Chemistry A*, **2019**, 7, 15969-15974	13	89
63	Controlled synthesis of layered double hydroxide nanoplates driven by screw dislocations. *Nano Letters*, **2015**, 15, 3403-9	11.5	82
62	Direct Synthesis and Anion Exchange of Noncarbonate-Intercalated NiFe-Layered Double Hydroxides and the Influence on Electrocatalysis. *Chemistry of Materials*, **2018**, 30, 4321-4330	9.6	75
61	MXenes for Rechargeable Batteries Beyond the Lithium-Ion. *Advanced Materials*, **2021**, 33, e2004039	24	71
60	Solution synthesis of VSe2 nanosheets and their alkali metal ion storage performance. *Nano Energy*, **2018**, 53, 11-16	17.1	69
59	NiCo/NiCo□DH and NiFe/NiFe□DH core shell nanostructures for water splitting electrocatalysis at large currents. *Applied Catalysis B: Environmental*, **2020**, 278, 119326	21.8	68
58	Partially Reduced Holey Graphene Oxide as High Performance Anode for Sodium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803215	21.8	68
57	Synthesis and adsorption behavior of chitosan-coated MnFe2O4 nanoparticles for trace heavy metal ions removal. *Applied Surface Science*, **2013**, 285, 498-504	6.7	66
56	On-Chip MXene Microsupercapacitors for AC-Line Filtering Applications. *Advanced Energy Materials*, **2019**, 9, 1901061	21.8	64
55	CrN thin films prepared by reactive DC magnetron sputtering for symmetric supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 2844-2851	13	54
54	Hierarchical (Ni,Co)Se 2 /Carbon Hollow Rhombic Dodecahedra Derived from Metal-Organic Frameworks for Efficient Water-Splitting Electrocatalysis. *Electrochimica Acta*, **2017**, 250, 167-173	6.7	51
53	High performance Na-doped lithium zinc titanate as anode material for Li-ion batteries. *RSC Advances*, **2015**, 5, 49890-49898	3.7	51
52	Efficient Overall Water-Splitting Electrocatalysis Using Lepidocrocite VOOH Hollow Nanospheres. *Angewandte Chemie*, **2017**, 129, 588-592	3.6	50
51	Layered SnS sodium ion battery anodes synthesized near room temperature. *Nano Research*, **2017**, 10, 4368-4377	10	50
50	One-step synthesis of graphitic-C 3 N 4 /ZnS composites for enhanced supercapacitor performance. *Journal of Energy Chemistry*, **2018**, 27, 472-477	12	50

49	Applications of Plasma in Energy Conversion and Storage Materials. *Advanced Energy Materials*, **2018**, 8, 1801804	21.8	47
48	MnFe2O4/chitosan nanocomposites as a recyclable adsorbent for the removal of hexavalent chromium. *Materials Research Bulletin*, **2013**, 48, 3910-3915	5.1	43
47	Self-assembled 3D flower-like □Fe2O3 microstructures and their superior capability for heavy metal ion removal. *Materials Chemistry and Physics*, **2013**, 141, 727-734	4.4	41
46	Hydrothermal synthesis, self-assembly and electrochemical performance of □Fe2O3 microspheres for lithium ion batteries. *Ceramics International*, **2014**, 40, 10283-10290	5.1	39
45	Adsorption of bovine serum albumin on functionalized silica-coated magnetic MnFe2O4 nanoparticles. *Materials Chemistry and Physics*, **2010**, 124, 964-969	4.4	39
44	Synthesis of 2D hollow hematite microplatelets with tuneable porosity and their comparative photocatalytic activities. *Journal of Materials Chemistry A*, **2014**, 2, 4340	13	38
43	Bimetallic MnCo selenide yolk shell structures for efficient overall water splitting. *Electrochimica Acta*, **2018**, 290, 82-89	6.7	35
42	Observation of the structural changes of sol-gel formed Li2MnTi3O8 during electrochemical reaction by in-situ and ex-situ studies. *Electrochimica Acta*, **2015**, 152, 187-194	6.7	34
41	Porous CrN thin films by selectively etching CrCuN for symmetric supercapacitors. *Journal of Power Sources*, **2018**, 385, 39-44	8.9	34
40	Hematite concave nanocubes and their superior catalytic activity for low temperature CO oxidation. *Nanoscale*, **2014**, 6, 7199-203	7.7	33
39	Facile synthesis of hematite nanostructures with controlled hollowness and porosity and their comparative photocatalytic activities. *CrystEngComm*, **2014**, 16, 959-963	3.3	32
38	Large Intercalation Pseudocapacitance in 2D VO (B): Breaking through the Kinetic Barrier. *Advanced Materials*, **2018**, 30, e1803594	24	32
37	X-shaped hollow □FeOOH penetration twins and their conversion to □Fe2O3 nanocrystals bound by high-index facets with enhanced photocatalytic activity. *Chemical Engineering Journal*, **2015**, 274, 224-230	14.7	31
36	Complex spinel titanate as an advanced anode material for rechargeable lithium-ion batteries. *Journal of Alloys and Compounds*, **2014**, 611, 65-73	5.7	31
35	Hydrothermal synthesis of cobalt-doped ZnS for efficient photodegradation of methylene blue. *Journal of Photochemistry and Photobiology A: Chemistry*, **2016**, 325, 62-67	4.7	30
34	A Plasma-Assisted Route to the Rapid Preparation of Transition-Metal Phosphides for Energy Conversion and Storage. *Small Methods*, **2017**, 1, 1700111	12.8	27
33	Co-Solvent Electrolyte Engineering for Stable Anode-Free Zinc Metal Batteries.. *Journal of the American Chemical Society*, **2022**,	16.4	24
32	Recent advances in anode materials for potassium-ion batteries: A review. *Nano Research*,1	10	23

31	Supermolecule Self-Assembly Promoted Porous N, P Co-Doped Reduced Graphene Oxide for High Energy Density Supercapacitors. *ACS Applied Energy Materials*, **2019**, 2, 4084-4091	6.1	21
30	□Fe2O3/Pt hybrid nanorings and their enhanced photocatalytic activities. *Ceramics International*, **2014**, 40, 5653-5658	5.1	20
29	Lithium storage behavior of manganese based complex spinel titanate as anode material for Li-ion batteries. *Journal of Power Sources*, **2014**, 272, 622-628	8.9	20
28	Construction of 3D Si@Ti@TiN thin film arrays for aqueous symmetric supercapacitors. *Chemical Communications*, **2019**, 55, 1402-1405	5.8	19
27	Bimetallic vanadium-molybdenum nitrides using magnetron co-sputtering as alkaline hydrogen evolution catalyst. *Electrochemistry Communications*, **2018**, 93, 166-170	5.1	19
26	Made-to-order porous electrodes for supercapacitors: MOFs embedded with redox-active centers as a case study. *Chemical Communications*, **2020**, 56, 1883-1886	5.8	19
25	Construction of hydroxide pn junction for water splitting electrocatalysis. *Applied Catalysis B: Environmental*, **2021**, 292, 120160	21.8	19
24	Magnetron sputtered TiN thin films toward enhanced performance supercapacitor electrodes. *Materials for Renewable and Sustainable Energy*, **2018**, 7, 1	4.7	16
23	All nitride asymmetric supercapacitors of niobium titanium nitride-vanadium nitride. *Journal of Power Sources*, **2021**, 481, 228842	8.9	16
22	Accelerating the water splitting kinetics of CoP microcubes anchored on a graphene electrocatalyst by Mn incorporation. *Nanoscale Advances*, **2019**, 1, 177-183	5.1	15
21	Facile synthesis and photocatalytic activity of cocoon-like hollow hematite nanostructures. *Materials Letters*, **2013**, 96, 12-15	3.3	15
20	Solution Growth of Screw Dislocation Driven □GaOOH Nanorod Arrays and Their Conversion to Porous ZnGa2O4 Nanotubes. *Chemistry of Materials*, **2017**, 29, 7278-7287	9.6	15
19	Solid state synthesis of Li2Co0.5Cu0.5Ti3O8 and Li2CoTi3O8 and their comparative lithium storage properties. *Ceramics International*, **2014**, 40, 13757-13761	5.1	14
18	Preferred Orientation of TiN Coatings Enables Stable Zinc Anodes. *ACS Energy Letters*, **2022**, 7, 197-203	20.1	13
17	Lithium storage mechanism in cubic lithium copper titanate anode material upon lithiation/delithiation process. *Journal of Power Sources*, **2015**, 281, 56-68	8.9	12
16	Template-free synthesis and characterization of snowflake-like □Fe2O3 microstructures. *Materials Letters*, **2010**, 64, 2410-2412	3.3	12
15	Autonomous MXene-PVDF actuator for flexible solar trackers. *Nano Energy*, **2020**, 77, 105277	17.1	12
14	Effects of Biomolecules on the Selectivity of Biosynthesized Pd/MgO Catalyst toward Selective Oxidation of Benzyl Alcohol. *Industrial & Engineering Chemistry Research*, **2014**, 53, 19128-19135	3.9	11

13	Surface and Interface Engineering of Zn Anodes in Aqueous Rechargeable Zn-Ion Batteries.. *Small*, **2022**, e2200006	11	11
12	Tuning the electronic structure of NiMoO4 by coupling with SnO2 for high-performance hybrid supercapacitors. *Chemical Engineering Journal*, **2021**, 409, 128297	14.7	10
11	Enhanced electrochemical properties of lithium cobalt titanate via lithium-site substitution with sodium. *Electrochimica Acta*, **2015**, 174, 1202-1215	6.7	9
10	Electrostatic Shielding Regulation of Magnetron Sputtered Al-Based Alloy Protective Coatings Enables Highly Reversible Zinc Anodes.. *Nano Letters*, **2022**,	11.5	9
9	Tungsten Blue Oxide as a Reusable Electrocatalyst for Acidic Water Oxidation by Plasma-Induced Vacancy Engineering. *CCS Chemistry*, **2021**, 3, 1553-1561	7.2	8
8	Rational Design of Manganese Cobalt Phosphide with Yolk□Shell Structure for Overall Water Splitting. *Energy Technology*, **2019**, 7, 1900066	3.5	6
7	Ionically Conductive Tunnels in h-WO Enable High-Rate NH Storage.. *Advanced Science*, **2022**, e2105158	13.6	6
6	Recent progress in advanced flexible zinc ion battery design. *Applied Physics Reviews*, **2022**, 9, 021304	17.3	5
5	Lithium copper/manganese titanate anode material for rechargeable lithium-ion batteries. *Materials Chemistry and Physics*, **2016**, 169, 128-135	4.4	2
4	Layer-tunable LaCO3OH microstructures and their photoluminescence property. *Materials Letters*, **2016**, 175, 184-187	3.3	1
3	Conversion of hydroxide into carbon-coated phosphide using plasma for sodium ion batteries. *Nano Research*,1	10	1
2	Hydrogen production by□electrocatalysis using the reaction of□acidic oxygen evolution: a review. *Environmental Chemistry Letters*,	13.3	1
1	Simultaneous electrocatalytic hydrogen production and hydrazine removal from acidic waste water. *Chemical Engineering Science*, **2022**, 258, 117769	4.4	0