

# Linfeng Hu

## List of Publications by Year in descending order

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91  
papers

10,669  
citations

38742

50  
h-index

39675

94  
g-index

99  
all docs

99  
docs citations

99  
times ranked

12937  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nickel–Cobalt Layered Double Hydroxide Nanosheets for High-performance Supercapacitor Electrode Materials. <i>Advanced Functional Materials</i> , 2014, 24, 934-942.	14.9	1,235
2	New concept ultraviolet photodetectors. <i>Materials Today</i> , 2015, 18, 493-502.	14.2	661
3	Preparation of $\text{MnCo}_2\text{O}_4 @ \text{Ni(OH)}_2$ Core–Shell Flowers for Asymmetric Supercapacitor Materials with Ultrahigh Specific Capacitance. <i>Advanced Functional Materials</i> , 2016, 26, 4085-4093.	14.9	517
4	An Optimized Ultraviolet–A Light Photodetector with Wide-Range Photoresponse Based on ZnS/ZnO Biaxial Nanobelt. <i>Advanced Materials</i> , 2012, 24, 2305-2309.	21.0	426
5	Low-Dimensional Nanostructure Ultraviolet Photodetectors. <i>Advanced Materials</i> , 2013, 25, 5321-5328.	21.0	362
6	One-Step Fabrication of Ultrathin Porous Nickel Hydroxide–Manganese Dioxide Hybrid Nanosheets for Supercapacitor Electrodes with Excellent Capacitive Performance. <i>Advanced Energy Materials</i> , 2013, 3, 1636-1646.	19.5	342
7	One-Step Hydrothermal Synthesis of 2D Hexagonal Nanoplates of $\text{Fe}_2\text{O}_3/\text{Graphene}$ Composites with Enhanced Photocatalytic Activity. <i>Advanced Functional Materials</i> , 2014, 24, 5719-5727.	14.9	331
8	A Novel Sustainable Flour Derived Hierarchical Nitrogen-Doped Porous Carbon/Polyaniline Electrode for Advanced Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2016, 6, 1601111.	19.5	303
9	Electrical Transport Properties of Large, Individual $\text{NiCo}_2\text{O}_4$ Nanoplates. <i>Advanced Functional Materials</i> , 2012, 22, 998-1004.	14.9	297
10	ZnS Nanostructure Arrays: A Developing Material Star. <i>Advanced Materials</i> , 2011, 23, 585-598.	21.0	296
11	New Ultraviolet Photodetector Based on Individual $\text{Nb}_2\text{O}_5$ Nanobelts. <i>Advanced Functional Materials</i> , 2011, 21, 3907-3915.	14.9	285
12	Ultrahigh External Quantum Efficiency from Thin $\text{SnO}_2$ Nanowire Ultraviolet Photodetectors. <i>Small</i> , 2011, 7, 1012-1017.	10.0	278
13	Controlled Growth from ZnS Nanoparticles to ZnS–CdS Nanoparticle Hybrids with Enhanced Photoactivity. <i>Advanced Functional Materials</i> , 2015, 25, 445-454.	14.9	239
14	Oil–water interfacial self-assembly: a novel strategy for nanofilm and nanodevice fabrication. <i>Chemical Society Reviews</i> , 2012, 41, 1350-1362.	38.1	233
15	Energy Harvesting for Nanostructured Self-Powered Photodetectors. <i>Advanced Functional Materials</i> , 2014, 24, 2591-2610.	14.9	217
16	Efficient Self-Assembly Synthesis of Uniform CdS Spherical Nanoparticles–Au Nanoparticles Hybrids with Enhanced Photoactivity. <i>Advanced Functional Materials</i> , 2014, 24, 3725-3733.	14.9	211
17	ZnO Hollow-Sphere Nanofilm-Based High-Performance and Low-Cost Photodetector. <i>Small</i> , 2011, 7, 2449-2453.	10.0	209
18	<i>In Situ</i> Growth of Layered Bimetallic ZnCo Hydroxide Nanosheets for High-Performance All-Solid-State Pseudocapacitor. <i>ACS Nano</i> , 2018, 12, 2968-2979.	14.6	193

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19	Fractal (Ni <sub>x</sub> /Co <sub>1-x</sub> ) <sub>9</sub> Se <sub>8</sub> Nanodendrite Arrays with Highly Exposed () Surface for Wearable, All-Solid-State Supercapacitor. <i>Advanced Energy Materials</i> , 2018, 8, 1801392.	19.5	183
20	High-Performance NiCo <sub>2</sub> O <sub>4</sub> Nanofilm Photodetectors Fabricated by an Interfacial Self-Assembly Strategy. <i>Advanced Materials</i> , 2011, 23, 1988-1992.	21.0	181
21	Ultrathin VSe <sub>2</sub> Nanosheets with Fast Ion Diffusion and Robust Structural Stability for Rechargeable Zinc-Ion Battery Cathode. <i>Small</i> , 2020, 16, e2000698.	10.0	154
22	General Fabrication of Monolayer SnO <sub>2</sub> Nanonets for High-Performance Ultraviolet Photodetectors. <i>Advanced Functional Materials</i> , 2012, 22, 1229-1235.	14.9	141
23	Stacking-Order-Dependent Optoelectronic Properties of Bilayer Nanofilm Photodetectors Made From Hollow ZnS and ZnO Microspheres. <i>Advanced Materials</i> , 2012, 24, 5872-5877.	21.0	134
24	Thin SnO <sub>2</sub> Nanowires with Uniform Diameter as Excellent Field Emitters: A Stability of More Than 2400 Minutes. <i>Advanced Functional Materials</i> , 2012, 22, 1613-1622.	14.9	134
25	Charge Transfer in Ultrafine LDH Nanosheets/Graphene Interface with Superior Capacitive Energy Storage Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37645-37654.	8.0	134
26	Oriented Monolayer Film of Gd <sub>2</sub> O <sub>3</sub> :0.05%Eu Crystallites: Quasi-Topotactic Transformation of the Hydroxide Film and Drastic Enhancement of Photoluminescence Properties. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3846-3849.	13.8	128
27	Nickel Cobaltite Nanostructures for Photoelectric and Catalytic Applications. <i>Small</i> , 2015, 11, 4267-4283.	10.0	127
28	Ultrafast Zinc-Ion Diffusion Ability Observed in 6.0-Nanometer Spinel Nanodots. <i>ACS Nano</i> , 2019, 13, 10376-10385.	14.6	124
29	Growth and Device Application of CdSe Nanostructures. <i>Advanced Functional Materials</i> , 2012, 22, 1551-1566.	14.9	122
30	Principles of interlayer-spacing regulation of layered vanadium phosphates for superior zinc-ion batteries. <i>Energy and Environmental Science</i> , 2021, 14, 4095-4106.	30.8	121
31	Superior Adsorption and Regenerable Dye Adsorbent Based on Flower-Like Molybdenum Disulfide Nanostructure. <i>Scientific Reports</i> , 2017, 7, 43599.	3.3	118
32	Selenic Acid Etching Assisted Vacancy Engineering for Designing Highly Active Electrocatalysts toward the Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2021, 33, e2007523.	21.0	116
33	New composite polymer electrolyte comprising mesoporous lithium aluminate nanosheets and PEO/LiClO <sub>4</sub> . <i>Journal of Power Sources</i> , 2007, 166, 226-232.	7.8	110
34	Bilayered VOPO <sub>4</sub> ·2H <sub>2</sub> O Nanosheets with High-Concentration Oxygen Vacancies for High-Performance Aqueous Zinc-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2106816.	14.9	104
35	New UV-A Photodetector Based on Individual Potassium Niobate Nanowires with High Performance. <i>Advanced Optical Materials</i> , 2014, 2, 771-778.	7.3	97
36	Exfoliation of Layered Europium Hydroxide into Unilamellar Nanosheets. <i>Chemistry - an Asian Journal</i> , 2010, 5, 248-251.	3.3	96

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37	One-dimensional inorganic semiconductor nanostructures: A new carrier for nanosensors. <i>Pure and Applied Chemistry</i> , 2010, 82, 2185-2198.	1.9	88
38	Pseudocapacitance-tuned high-rate and long-term cyclability of NiCo <sub>2</sub> S <sub>4</sub> hexagonal nanosheets prepared by vapor transformation for lithium storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9022-9031.	10.3	87
39	Synthesis of a Solid Solution Series of Layered Eu <sub>x</sub> Gd <sub>1-x</sub> (OH) <sub>2.5</sub> Cl <sub>0.5</sub> ·0.9H <sub>2</sub> O and Its Transformation into (Eu <sub>x</sub> Gd <sub>1-x</sub> ) <sub>2</sub> O <sub>3</sub> with Enhanced Photoluminescence Properties. <i>Inorganic Chemistry</i> , 2010, 49, 2060-2068.	4.0	78
40	Oriented films of layered rare-earth hydroxide crystallites self-assembled at the hexane/water interface. <i>Chemical Communications</i> , 2008, , 4897.	4.1	75
41	Uniform carbon-coated CdS core-shell nanostructures: synthesis, ultrafast charge carrier dynamics, and photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1078-1086.	10.3	75
42	Epitaxial Growth of Lattice-Mismatched Core-Shell TiO <sub>2</sub> @MoS <sub>2</sub> for Enhanced Lithium-Ion Storage. <i>Small</i> , 2016, 12, 2792-2799.	10.0	71
43	Cathodoluminescence Modulation of ZnS Nanostructures by Morphology, Doping, and Temperature. <i>Advanced Functional Materials</i> , 2013, 23, 3701-3709.	14.9	69
44	Heteroepitaxial Growth of GaP/ZnS Nanocable with Superior Optoelectronic Response. <i>Nano Letters</i> , 2013, 13, 1941-1947.	9.1	67
45	Band Gap Tunable Zn <sub>2</sub> SnO <sub>4</sub> Nanocubes through Thermal Effect and Their Outstanding Ultraviolet Light Photoresponse. <i>Scientific Reports</i> , 2014, 4, 6847.	3.3	60
46	A Layered Zn <sub>0.4</sub> VOPO <sub>4</sub> ·0.8H <sub>2</sub> O Cathode for Robust and Stable Zn Ion Storage. <i>ACS Applied Energy Materials</i> , 2020, 3, 3919-3927.	5.1	60
47	Novel Sub-5 nm Layered Niobium Phosphate Nanosheets for High-Voltage, Cation-Intercalation Typed Electrochemical Energy Storage in Wearable Pseudocapacitors. <i>Advanced Energy Materials</i> , 2019, 9, 1900111.	19.5	57
48	Freestanding CoSeO <sub>3</sub> ·H <sub>2</sub> O nanoribbon/carbon nanotube composite paper for 2.4 V high-voltage, flexible, solid-state supercapacitors. <i>Nanoscale</i> , 2018, 10, 12003-12010.	5.6	56
49	Vacancies boosting strategy enabling enhanced oxygen evolution activity in a library of novel amorphous selenite electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119758.	20.2	55
50	Rapid Amorphization in Metastable CoSeO <sub>3</sub> ·H <sub>2</sub> O Nanosheets for Ultrafast Lithiation Kinetics. <i>ACS Nano</i> , 2018, 12, 5011-5020.	14.6	53
51	Simultaneous Incorporation of V and Mn Element into Polyanionic NASICON for High Energy-Density and Long-Lifespan Zn-Ion Storage. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	53
52	Bottom-up Approach Design, Band Structure, and Lithium Storage Properties of Atomically Thin β-FeOOH Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 21334-21342.	8.0	49
53	2D Assembly of Confined Space toward Enhanced CO <sub>2</sub> Electroreduction. <i>Advanced Energy Materials</i> , 2018, 8, 1801230.	19.5	49
54	Spontaneous knitting behavior of 6.7-nm thin (NH <sub>4</sub> ) <sub>0.38</sub> V <sub>2</sub> O <sub>5</sub> nano-ribbons for binder-free zinc-ion batteries. <i>Energy Storage Materials</i> , 2021, 42, 286-294.	18.0	46

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55	CuGaO <sub>2</sub> nanoplates: a robust and self-healing anode for Li/Na ion batteries in a wide temperature range of 268–318 K. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1086-1093.	10.3	44
56	Self-Assembled Nanofilm of Monodisperse Cobalt Hydroxide Hexagonal Platelets: Topotactic Conversion into Oxide and Resistive Switching. <i>Chemistry of Materials</i> , 2010, 22, 6341-6346.	6.7	42
57	<i>In situ</i> growth of (NH <sub>4</sub> ) <sub>2</sub> V <sub>10</sub> O <sub>25</sub> ·8H <sub>2</sub> O urchin-like hierarchical arrays as superior electrodes for all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16308-16315.	10.3	38
58	A long-lifespan, flexible zinc-ion secondary battery using a paper-like cathode from single-atomic layer MnO <sub>2</sub> nanosheets. <i>Nanoscale Advances</i> , 2019, 1, 4365-4372.	4.6	33
59	Lower ammoniation activation energy of CoN nanosheets by Mn doping with superior energy storage performance for secondary ion batteries. <i>Nanoscale</i> , 2018, 10, 5581-5590.	5.6	31
60	Novel Core-Shell Photodetector with High Ultraviolet Selectivity and Enhanced Responsivity. <i>Advanced Functional Materials</i> , 2017, 27, 1704477.	14.9	29
61	Self-Templated Synthesis of Ultrathin Nanosheets Constructed TiO <sub>2</sub> Hollow Spheres with High Electrochemical Properties. <i>Advanced Science</i> , 2016, 3, 1600162.	11.2	28
62	Solution-Growth Strategy for Large-Scale CuGaO <sub>2</sub> Nanoplate/ZnS Microsphere Heterostructure Arrays with Enhanced UV Adsorption and Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2017, 27, 1701066.	14.9	27
63	Controllable Fabrication and Photoelectrochemical Property of Multilayer Tantalum Nitride Hollow Sphere Nanofilms. <i>Small</i> , 2014, 10, 3038-3044.	10.0	21
64	Dense Assembly of Gd <sub>2</sub> O <sub>3</sub> :0.05X <sup>3+</sup> (X = Eu, Tb) Nanorods into Nanoscaled Thin-Films and Their Photoluminescence Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1462-1469.	8.0	17
65	Oil/water interfacial self-assembly for the organization of hydrophobic NaYF <sub>4</sub> :Yb, Er nanoplatelets into closely-packed fluorescent nanofilms. <i>Journal of Materials Chemistry</i> , 2012, 22, 944-950.	6.7	15
66	Hydrothermal synthesis of high surface area mesoporous lithium aluminate. <i>Materials Letters</i> , 2007, 61, 570-573.	2.6	14
67	Cathodoluminescence and Photoconductive Characteristics of Single-Crystal Ternary CdS/CdSe/CdS Biaxial Nanobelts. <i>Small</i> , 2015, 11, 1531-1536.	10.0	14
68	Forming free and ultralow-power erase operation in atomically crystal TiO <sub>2</sub> resistive switching. <i>2D Materials</i> , 2017, 4, 025012.	4.4	14
69	Epitaxial growth of NiCo <sub>2</sub> S <sub>4</sub> /Co <sub>9</sub> S <sub>8</sub> @Graphene heterogenous nanocomposites with high-rate lithium storage performance. <i>Journal of Alloys and Compounds</i> , 2018, 747, 926-933.	5.5	14
70	Alleviated Mn <sup>2+</sup> dissolution drives long-term cycling stability in ultrafine Mn <sub>3</sub> O <sub>4</sub> /PPy core-shell nanodots for zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27380-27389.	10.3	14
71	Realizing Interfacial Electron/Hole Redistribution and Superhydrophilic Surface through Building Heterostructural 2Ånm Co <sub>0.85</sub> Se@NiSe Nanograins for Efficient Overall Water Splittings. <i>Small Methods</i> , 2022, 6, e2200459.	8.6	14
72	Hydrothermal synthesis of single crystal mesoporous LiAlO <sub>2</sub> nanobelts. <i>Materials Letters</i> , 2008, 62, 2039-2042.	2.6	13

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73	One-Step Self-Assembly Fabrication of High Quality Ni <sub>x</sub> Mg <sub>1-x</sub> O Bowl-Shaped Array Film and Its Enhanced Photocurrent by Mg <sup>2+</sup> Doping. <i>Advanced Functional Materials</i> , 2015, 25, 3256-3263.	14.9	13
74	Fabrication of novel lamellar alternating nitrogen-doped microporous carbon nanofilm/MoS <sub>2</sub> composites with high electrochemical properties. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22726-22734.	10.3	12
75	Macroporous, Freestanding Birnessite H <sub>0.08</sub> MnO <sub>2</sub> ·0.7H <sub>2</sub> O Nanobelts/Carbon Nanotube Membranes for Wearable Zinc-Ion Batteries with Superior Rate Capability and Cyclability. <i>ACS Applied Energy Materials</i> , 2021, 4, 4138-4149.	5.1	12
76	Oil-water interfacial self-assembly of PS/ZnS nanospheres and photoconducting property of corresponding nanofilm. <i>Journal of Materials Chemistry</i> , 2012, 22, 17671.	6.7	10
77	Asymmetric Supercapacitors: Preparation of MnCo <sub>2</sub> O <sub>4</sub> @Ni(OH) <sub>2</sub> Core-Shell Flowers for Asymmetric Supercapacitor Materials with Ultrahigh Specific Capacitance ( <i>Adv. Funct. Mater.</i> 23/2016). <i>Advanced Functional Materials</i> , 2016, 26, 4038-4038.	14.9	9
78	Carbonate-Hydroxide Induced Metal-Organic Framework Transformation Strategy for Honeycomb-Like NiCoP Nanoplates to Drive Enhanced pH-Universal Hydrogen Evolution. <i>Small Methods</i> , 2022, 6, .	8.6	8
79	Hydrothermal routes to various controllable morphologies of nanostructural lithium aluminate. <i>Materials Research Bulletin</i> , 2007, 42, 1407-1413.	5.2	6
80	Template-assisted synthesis of mesoporous LiAlO <sub>2</sub> hollow spheres with high surface area. <i>Microporous and Mesoporous Materials</i> , 2008, 113, 41-46.	4.4	6
81	Synthesis and applications of CdSe nano-tetrapods in hybrid photovoltaic devices. <i>Pure and Applied Chemistry</i> , 2012, 84, 2549-2558.	1.9	5
82	Thermal transformation of ZnCo <sub>1.5</sub> (OH) <sub>4.5</sub> Cl <sub>0.5</sub> ·0.45H <sub>2</sub> O into hexagonal ZnCo <sub>2</sub> O <sub>4</sub> nanosheets for high-performance secondary ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 783, 455-459.	5.5	5
83	Study on electrical defects level in single layer two-dimensional Ta <sub>2</sub> O <sub>5</sub> . <i>Chinese Physics B</i> , 2016, 25, 047304.	1.4	4
84	Semiconductors: Controlled Growth from ZnS Nanoparticles to ZnS/CdS Nanoparticle Hybrids with Enhanced Photoactivity ( <i>Adv. Funct. Mater.</i> 3/2015). <i>Advanced Functional Materials</i> , 2015, 25, 495-495.	14.9	3
85	Cu <sub>0.33</sub> Co <sub>0.67</sub> S <sub>2</sub> Hexagonal Sheets with 2D Hierarchical Structures for High-Rate and Long-Term Lithium Storage. <i>ChemNanoMat</i> , 2019, 5, 531-538.	2.8	3
86	Freeze-drying and hot-pressing strategy to embed two-dimensional Ti <sub>0.87</sub> O <sub>2</sub> monolayers in commercial polypropylene films with enhanced dielectric properties. <i>Journal of Advanced Ceramics</i> , 2021, 10, 368-376.	17.4	3
87	Bilayered VOPO <sub>4</sub> ·xH <sub>2</sub> O Nanosheets with High-Concentration Oxygen Vacancies for High-Performance Aqueous Zinc-Ion Batteries ( <i>Adv. Funct. Mater.</i> 45/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170335.	14.9	3
88	A simple hydrothermal method to synthesise highly pure hexagonal and rhombus α-LiAlO <sub>2</sub> nanosheets. <i>International Journal of Materials and Product Technology</i> , 2010, 37, 263.	0.2	2
89	An Optimized Ultraviolet-A Light Photodetector with Wide-Range Photoresponse Based on ZnS/ZnO Biaxial Nanobelt ( <i>Adv. Mater.</i> 17/2012). <i>Advanced Materials</i> , 2012, 24, 2304-2304.	21.0	2
90	Electrocatalytic CO <sub>2</sub> Reduction: 2D Assembly of Confined Space toward Enhanced CO <sub>2</sub> Electroreduction ( <i>Adv. Energy Mater.</i> 25/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870112.	19.5	1

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91	Zinc Sulfide Nanostructure Arrays: ZnS Nanostructure Arrays: A Developing Material Star (Adv.) Tj ETQq1 1 0.784314	14	10