

# Lele Peng

## 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.

66

papers

10,713

citations

46

h-index

70

g-index

70

ext. papers

12,282

ext. citations

17.3

avg, IF

6.63

L-index

#	Paper	IF	Citations
66	A Silicon Monoxide Lithium-Ion Battery Anode with Ultrahigh Areal Capacity.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 50	19.5	8
65	Crack Detection Method of Sleeper Based on Cascade Convolutional Neural Network. <i>Journal of Advanced Transportation</i> , <b>2022</b> , 2022, 1-14	1.9	1
64	The promises, challenges and pathways to room-temperature sodium-sulfur batteries.. <i>National Science Review</i> , <b>2022</b> , 9, nwab050	10.8	13
63	A Lightweight Model for Bearing Fault Diagnosis Based on Gramian Angular Field and Coordinate Attention. <i>Machines</i> , <b>2022</b> , 10, 282	2.9	1
62	3D Holey Graphene/Polyacrylonitrile Sulfur Composite Architecture for High Loading Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100448	21.8	52
61	A Comprehensive Detection System for Track Geometry Using Fused Vision and Inertia. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-15	5.2	8
60	Silver nanoparticles boost charge-extraction efficiency in microbial fuel cells. <i>Science</i> , <b>2021</b> , 373, 1336-1340	35.5	38
59	Research on the Simulation of Wheelset Response Characteristic Identification of Railway Fastener Loosening. <i>Mathematical Problems in Engineering</i> , <b>2020</b> , 2020, 1-15	1.1	2
58	A nitrogen-doped mesopore-dominated carbon electrode allied with anti-freezing EMIBF <sub>4</sub> /GBL electrolyte for superior low-temperature supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10386-10394	12.2	12
57	A fundamental look at electrocatalytic sulfur reduction reaction. <i>Nature Catalysis</i> , <b>2020</b> , 3, 762-770	36.5	206
56	Bacteria-Derived Biological Carbon Building Robust Li-S Batteries. <i>Nano Letters</i> , <b>2019</b> , 19, 4384-4390	11.5	57
55	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , <b>2019</b> , 363, 723-727	33.3	229
54	Hierarchical 3D electrodes for electrochemical energy storage. <i>Nature Reviews Materials</i> , <b>2019</b> , 4, 45-60	73.3	360
53	Size-dependent kinetics during non-equilibrium lithiation of nano-sized zinc ferrite. <i>Nature Communications</i> , <b>2019</b> , 10, 93	17.4	26
52	Stretchable All-Gel-State Fiber-Shaped Supercapacitors Enabled by Macromolecularly Interconnected 3D Graphene/Nanostructured Conductive Polymer Hydrogels. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800124	24	304
51	Structural Engineering of 2D Nanomaterials for Energy Storage and Catalysis. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706347	24	224
50	Data on photovoltaic system using different perturb and observe methods under fast multi-changing solar irradiances. <i>Data in Brief</i> , <b>2018</b> , 17, 169-171	1.2	2

49	Two-Dimensional Holey Nanoarchitectures Created by Confined Self-Assembly of Nanoparticles via Block Copolymers: From Synthesis to Energy Storage Property. <i>ACS Nano</i> , <b>2018</b> , 12, 820-828	16.7	51
48	Cyanogel-Enabled Homogeneous Sb-Ni-C Ternary Framework Electrodes for Enhanced Sodium Storage. <i>ACS Nano</i> , <b>2018</b> , 12, 759-767	16.7	63
47	Dual Tuning of Ni-Co-A (A = P, Se, O) Nanosheets by Anion Substitution and Holey Engineering for Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 5241-5247	16.4	347
46	Solvent-Dependent Intercalation and Molecular Configurations in Metallocene-Layered Crystal Superlattices. <i>Nano Letters</i> , <b>2018</b> , 18, 6071-6075	11.5	18
45	Local Built-In Electric Field Enabled in Carbon-Doped Co <sub>3</sub> O <sub>4</sub> Nanocrystals for Superior Lithium-Ion Storage. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705951	15.6	94
44	Holey 2D Nanomaterials for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702179	19.8	211
43	A novel tangent error maximum power point tracking algorithm for photovoltaic system under fast multi-changing solar irradiances. <i>Applied Energy</i> , <b>2018</b> , 210, 303-316	10.7	33
42	Probing enhanced lithium-ion transport kinetics in 2D holey nanoarchitectured electrodes. <i>Nano Futures</i> , <b>2018</b> , 2, 035008	3.6	12
41	A Novel Control Strategy on Multiple-Mode Application of Electric Vehicle in Distributed Photovoltaic Systems. <i>Complexity</i> , <b>2018</b> , 2018, 1-11	1.6	2
40	A Simple Method of Residential Electricity Load Forecasting by Improved Bayesian Neural Networks. <i>Mathematical Problems in Engineering</i> , <b>2018</b> , 2018, 1-16	1.1	10
39	A Conductive Molecular Framework Derived Li <sub>2</sub> S/N,P-Codoped Carbon Cathode for Advanced Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602876	21.8	212
38	Holey two-dimensional transition metal oxide nanosheets for efficient energy storage. <i>Nature Communications</i> , <b>2017</b> , 8, 15139	17.4	261
37	Two-Dimensional Holey CoO Nanosheets for High-Rate Alkali-Ion Batteries: From Rational Synthesis to in Situ Probing. <i>Nano Letters</i> , <b>2017</b> , 17, 3907-3913	11.5	134
36	An All-Stretchable-Component Sodium-Ion Full Battery. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700898	24	114
35	Metallic Transition Metal Selenide Holey Nanosheets for Efficient Oxygen Evolution Electrocatalysis. <i>ACS Nano</i> , <b>2017</b> , 11, 9550-9557	16.7	206
34	Effective Interlayer Engineering of Two-Dimensional VOPO Nanosheets via Controlled Organic Intercalation for Improving Alkali Ion Storage. <i>Nano Letters</i> , <b>2017</b> , 17, 6273-6279	11.5	84
33	General Facet-Controlled Synthesis of Single-Crystalline {010}-Oriented LiMPO <sub>4</sub> (M = Mn, Fe, Co) Nanosheets. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 10526-10533	9.6	21
32	Intercalation Pseudocapacitance in Ultrathin VOPO <sub>4</sub> Nanosheets: Toward High-Rate Alkali-Ion-Based Electrochemical Energy Storage. <i>Nano Letters</i> , <b>2016</b> , 16, 742-7	11.5	205

31	Chemically Integrated Inorganic-Graphene Two-Dimensional Hybrid Materials for Flexible Energy Storage Devices. <i>Small</i> , <b>2016</b> , 12, 6183-6199	11	111
30	Two-Dimensional Materials for Beyond-Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1600025.8	4.8	418
29	An advanced high-energy sodium ion full battery based on nanostructured Na <sub>2</sub> Ti <sub>3</sub> O <sub>7</sub> /VOPO <sub>4</sub> layered materials. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3399-3405	35.4	196
28	Layer-by-Layer Assembly of Two-Dimensional Colloidal Cu <sub>2</sub> Se Nanoplates and Their Layer-Dependent Conductivity. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 4307-4314	9.6	23
27	Biobased Nano Porous Active Carbon Fibers for High-Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 15205-15	9.5	159
26	Achieving High-Energy-High-Power Density in a Flexible Quasi-Solid-State Sodium Ion Capacitor. <i>Nano Letters</i> , <b>2016</b> , 16, 5938-43	11.5	148
25	Two-dimensional nanosheets based Li-ion full batteries with high rate capability and flexibility. <i>Nano Energy</i> , <b>2015</b> , 12, 816-823	17.1	86
24	Nanostructured conducting polymer hydrogels for energy storage applications. <i>Nanoscale</i> , <b>2015</b> , 7, 12796-806	133	
23	Nanostructured conductive polymers for advanced energy storage. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 6684-96	58.5	542
22	Thermally Responsive Hydrogel Blends: A General Drug Carrier Model for Controlled Drug Release. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 7376-80	16.4	117
21	Self-assembled LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> nanosheet cathodes with tunable rate capability. <i>Nano Energy</i> , <b>2015</b> , 17, 36-42	17.1	91
20	A chemistry and material perspective on lithium redox flow batteries towards high-density electrical energy storage. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 7968-96	58.5	322
19	Thermally Responsive Hydrogel Blends: A General Drug Carrier Model for Controlled Drug Release. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 7484-7488	3.6	53
18	Conductive SmartHybrid Hydrogels with PNIPAM and Nanostructured Conductive Polymers. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1219-1225	15.6	288
17	Single-crystalline LiFePO <sub>4</sub> nanosheets for high-rate Li-ion batteries. <i>Nano Letters</i> , <b>2014</b> , 14, 2849-53	11.5	263
16	Two dimensional nanomaterials for flexible supercapacitors. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 3303-23	38.5	827
15	An improved model and parameters extraction for photovoltaic cells using only three state points at standard test condition. <i>Journal of Power Sources</i> , <b>2014</b> , 248, 621-631	8.9	50
14	Amorphous silicon honeycombs as a binder/carbon-free, thin-film Li-ion battery anode. <i>Chemical Communications</i> , <b>2014</b> , 50, 12959-62	5.8	12

13	Chemically integrated two-dimensional hybrid zinc manganate/graphene nanosheets with enhanced lithium storage capability. <i>ACS Nano</i> , <b>2014</b> , 8, 8610-6	16.7	137
12	Self-assembled LiFePO <sub>4</sub> nanowires with high rate capability for Li-ion batteries. <i>Chemical Communications</i> , <b>2014</b> , 50, 9569-72	5.8	46
11	A reversible Br <sub>2</sub> /Br <sup>-</sup> redox couple in the aqueous phase as a high-performance catholyte for alkali-ion batteries. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1990-1995	35.4	119
10	Multifunctional superhydrophobic surfaces templated from innately microstructured hydrogel matrix. <i>Nano Letters</i> , <b>2014</b> , 14, 4803-9	11.5	159
9	A new method for determining the characteristics of solar cells. <i>Journal of Power Sources</i> , <b>2013</b> , 227, 131-136	8.9	54
8	Two-dimensional vanadyl phosphate ultrathin nanosheets for high energy density and flexible pseudocapacitors. <i>Nature Communications</i> , <b>2013</b> , 4, 2431	17.4	304
7	Hydrogen-incorporated TiS <sub>2</sub> ultrathin nanosheets with ultrahigh conductivity for stamp-transferrable electrodes. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 5144-51	16.4	228
6	Ultrathin two-dimensional MnO <sub>2</sub> /graphene hybrid nanostructures for high-performance, flexible planar supercapacitors. <i>Nano Letters</i> , <b>2013</b> , 13, 2151-7	11.5	751
5	Highly entangled K <sub>0.5</sub> V <sub>2</sub> O <sub>5</sub> superlong nanobelt membranes for flexible nonvolatile memory devices. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 18214		18
4	Giant moisture responsiveness of VS <sub>2</sub> ultrathin nanosheets for novel touchless positioning interface. <i>Advanced Materials</i> , <b>2012</b> , 24, 1969-74	24	324
3	Large-area graphene realizing ultrasensitive photothermal actuator with high transparency: new prototype robotic motions under infrared-light stimuli. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 18584		102
2	Hydrogen-incorporation stabilization of metallic VO <sub>2</sub> (R) phase to room temperature, displaying promising low-temperature thermoelectric effect. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13798-801	16.4	124
1	Metallic few-layered VS <sub>2</sub> ultrathin nanosheets: high two-dimensional conductivity for in-plane supercapacitors. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 17832-8	16.4	886