

Lele Peng

List of Publications by Year in descending order

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65
papers

13,832
citations

38660

50
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98622

67
g-index

70
all docs

70
docs citations

70
times ranked

17972
citing authors

#	ARTICLE	IF	CITATIONS
1	Metallic Few-Layered VS ₂ Ultrathin Nanosheets: High Two-Dimensional Conductivity for In-Plane Supercapacitors. <i>Journal of the American Chemical Society</i> , 2011, 133, 17832-17838.	6.6	1,014
2	Two dimensional nanomaterials for flexible supercapacitors. <i>Chemical Society Reviews</i> , 2014, 43, 3303.	18.7	978
3	Ultrathin Two-Dimensional MnO ₂ /Graphene Hybrid Nanostructures for High-Performance, Flexible Planar Supercapacitors. <i>Nano Letters</i> , 2013, 13, 2151-2157.	4.5	818
4	Nanostructured conductive polymers for advanced energy storage. <i>Chemical Society Reviews</i> , 2015, 44, 6684-6696.	18.7	719
5	Hierarchical 3D electrodes for electrochemical energy storage. <i>Nature Reviews Materials</i> , 2019, 4, 45-60.	23.3	554
6	Two-Dimensional Materials for Beyond-Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016, 6, 1600025.	10.2	533
7	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> , 2018, 140, 5241-5247.	6.6	461
8	A fundamental look at electrocatalytic sulfur reduction reaction. <i>Nature Catalysis</i> , 2020, 3, 762-770.	16.1	455
9	Double-negative-index ceramic aerogels for thermal superinsulation. <i>Science</i> , 2019, 363, 723-727.	6.0	429
10	Stretchable All-Gel-State Fiber-Shaped Supercapacitors Enabled by Macromolecularly Interconnected 3D Graphene/Nanostructured Conductive Polymer Hydrogels. <i>Advanced Materials</i> , 2018, 30, e1800124.	11.1	396
11	A chemistry and material perspective on lithium redox flow batteries towards high-density electrical energy storage. <i>Chemical Society Reviews</i> , 2015, 44, 7968-7996.	18.7	388
12	Giant Moisture Responsiveness of VS ₂ Ultrathin Nanosheets for Novel Touchless Positioning Interface. <i>Advanced Materials</i> , 2012, 24, 1969-1974.	11.1	364
13	Conductive Smart-Hybrid Hydrogels with PNIPAM and Nanostructured Conductive Polymers. <i>Advanced Functional Materials</i> , 2015, 25, 1219-1225.	7.8	363
14	Two-dimensional vanadyl phosphate ultrathin nanosheets for high energy density and flexible pseudocapacitors. <i>Nature Communications</i> , 2013, 4, 2431.	5.8	356
15	Holey two-dimensional transition metal oxide nanosheets for efficient energy storage. <i>Nature Communications</i> , 2017, 8, 15139.	5.8	343
16	Single-Crystalline LiFePO ₄ Nanosheets for High-Rate Li-Ion Batteries. <i>Nano Letters</i> , 2014, 14, 2849-2853.	4.5	308
17	Structural Engineering of 2D Nanomaterials for Energy Storage and Catalysis. <i>Advanced Materials</i> , 2018, 30, e1706347.	11.1	297
18	Holey 2D Nanomaterials for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1702179.	10.2	293

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19	Hydrogen-Incorporated TiS ₂ Ultrathin Nanosheets with Ultrahigh Conductivity for Stamp-Transferrable Electrodes. <i>Journal of the American Chemical Society</i> , 2013, 135, 5144-5151.	6.6	273
20	Metallic Transition Metal Selenide Holey Nanosheets for Efficient Oxygen Evolution Electrocatalysis. <i>ACS Nano</i> , 2017, 11, 9550-9557.	7.3	273
21	A Conductive Molecular Framework Derived Li ₂ S/N,P-Codoped Carbon Cathode for Advanced Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1602876.	10.2	258
22	Intercalation Pseudocapacitance in Ultrathin VOPO ₄ Nanosheets: Toward High-Rate Alkali-Ion-Based Electrochemical Energy Storage. <i>Nano Letters</i> , 2016, 16, 742-747.	4.5	250
23	An advanced high-energy sodium ion full battery based on nanostructured Na ₂ Ti ₃ O ₇ /VOPO ₄ layered materials. <i>Energy and Environmental Science</i> , 2016, 9, 3399-3405.	15.6	247
24	Biobased Nano Porous Active Carbon Fibers for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15205-15215.	4.0	206
25	Multifunctional Superhydrophobic Surfaces Templated From Innately Microstructured Hydrogel Matrix. <i>Nano Letters</i> , 2014, 14, 4803-4809.	4.5	183
26	Achieving High-Energy High-Power Density in a Flexible Quasi-Solid-State Sodium Ion Capacitor. <i>Nano Letters</i> , 2016, 16, 5938-5943.	4.5	171
27	Silver nanoparticles boost charge-extraction efficiency in <i>Shewanella</i> microbial fuel cells. <i>Science</i> , 2021, 373, 1336-1340.	6.0	171
28	Nanostructured conducting polymer hydrogels for energy storage applications. <i>Nanoscale</i> , 2015, 7, 12796-12806.	2.8	160
29	Two-Dimensional Holey Co ₃ O ₄ Nanosheets for High-Rate Alkali-Ion Batteries: From Rational Synthesis to in Situ Probing. <i>Nano Letters</i> , 2017, 17, 3907-3913.	4.5	158
30	Hydrogen-Incorporation Stabilization of Metallic VO ₂ (R) Phase to Room Temperature, Displaying Promising Low-Temperature Thermoelectric Effect. <i>Journal of the American Chemical Society</i> , 2011, 133, 13798-13801.	6.6	144
31	Chemically Integrated Two-Dimensional Hybrid Zinc Manganate/Graphene Nanosheets with Enhanced Lithium Storage Capability. <i>ACS Nano</i> , 2014, 8, 8610-8616.	7.3	141
32	Thermally Responsive Hydrogel Blends: A General Drug Carrier Model for Controlled Drug Release. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7376-7380.	7.2	141
33	An All-Stretchable Component Sodium-Ion Full Battery. <i>Advanced Materials</i> , 2017, 29, 1700898.	11.1	141
34	A reversible Br ₂ /Br [•] redox couple in the aqueous phase as a high-performance catholyte for alkali-ion batteries. <i>Energy and Environmental Science</i> , 2014, 7, 1990-1995.	15.6	137
35	3D Holey Graphene/Polyacrylonitrile Sulfur Composite Architecture for High Loading Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100448.	10.2	131
36	Local Built-In Electric Field Enabled in Carbon-Doped Co ₃ O ₄ Nanocrystals for Superior Lithium-Ion Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1705951.	7.8	128

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37	Chemically Integrated Inorganic-Graphene Two-Dimensional Hybrid Materials for Flexible Energy Storage Devices. <i>Small</i> , 2016, 12, 6183-6199.	5.2	126
38	Large-area graphene realizing ultrasensitive photothermal actuator with high transparency: new prototype robotic motions under infrared-light stimuli. <i>Journal of Materials Chemistry</i> , 2011, 21, 18584.	6.7	111
39	Self-assembled LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ nanosheet cathodes with tunable rate capability. <i>Nano Energy</i> , 2015, 17, 36-42.	8.2	105
40	Effective Interlayer Engineering of Two-Dimensional VOPO ₄ Nanosheets via Controlled Organic Intercalation for Improving Alkali Ion Storage. <i>Nano Letters</i> , 2017, 17, 6273-6279.	4.5	102
41	Two-dimensional nanosheets based Li-ion full batteries with high rate capability and flexibility. <i>Nano Energy</i> , 2015, 12, 816-823.	8.2	99
42	Bacteria-Derived Biological Carbon Building Robust Li-S Batteries. <i>Nano Letters</i> , 2019, 19, 4384-4390.	4.5	95
43	Cyanogel-Enabled Homogeneous Sb-Ni-C Ternary Framework Electrodes for Enhanced Sodium Storage. <i>ACS Nano</i> , 2018, 12, 759-767.	7.3	72
44	An improved model and parameters extraction for photovoltaic cells using only three state points at standard test condition. <i>Journal of Power Sources</i> , 2014, 248, 621-631.	4.0	69
45	The promises, challenges and pathways to room-temperature sodium-sulfur batteries. <i>National Science Review</i> , 2022, 9, nwab050.	4.6	68
46	A new method for determining the characteristics of solar cells. <i>Journal of Power Sources</i> , 2013, 227, 131-136.	4.0	67
47	Two-Dimensional Holey Nanoarchitectures Created by Confined Self-Assembly of Nanoparticles via Block Copolymers: From Synthesis to Energy Storage Property. <i>ACS Nano</i> , 2018, 12, 820-828.	7.3	62
48	A Silicon Monoxide Lithium-Ion Battery Anode with Ultrahigh Areal Capacity. <i>Nano-Micro Letters</i> , 2022, 14, 50.	14.4	59
49	Self-assembled LiFePO ₄ nanowires with high rate capability for Li-ion batteries. <i>Chemical Communications</i> , 2014, 50, 9569.	2.2	52
50	A novel tangent error maximum power point tracking algorithm for photovoltaic system under fast multi-changing solar irradiances. <i>Applied Energy</i> , 2018, 210, 303-316.	5.1	51
51	Size-dependent kinetics during non-equilibrium lithiation of nano-sized zinc ferrite. <i>Nature Communications</i> , 2019, 10, 93.	5.8	39
52	General Facet-Controlled Synthesis of Single-Crystalline {010}-Oriented LiMPO ₄ (M = Mn, Tj) ETQq0 0,0 rgBT /Overlock 10	3.2	30
53	Layer-by-Layer Assembly of Two-Dimensional Colloidal Cu ₂ Se Nanoplates and Their Layer-Dependent Conductivity. <i>Chemistry of Materials</i> , 2016, 28, 4307-4314.	3.2	28
54	Highly entangled K _{0.5} V ₂ O ₅ superlong nanobelt membranes for flexible nonvolatile memory devices. <i>Journal of Materials Chemistry</i> , 2012, 22, 18214.	6.7	22

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55	A nitrogen-doped mesopore-dominated carbon electrode allied with anti-freezing EMIBF ₄ GBL electrolyte for superior low-temperature supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10386-10394.	5.2	21
56	A Lightweight Model for Bearing Fault Diagnosis Based on Gramian Angular Field and Coordinate Attention. <i>Machines</i> , 2022, 10, 282.	1.2	20
57	Solvent-Dependent Intercalation and Molecular Configurations in Metallocene-Layered Crystal Superlattices. <i>Nano Letters</i> , 2018, 18, 6071-6075.	4.5	19
58	A Comprehensive Detection System for Track Geometry Using Fused Vision and Inertia. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-15.	2.4	17
59	Amorphous silicon honeycombs as a binder/carbon-free, thin-film Li-ion battery anode. <i>Chemical Communications</i> , 2014, 50, 12959-12962.	2.2	15
60	Probing enhanced lithium-ion transport kinetics in 2D holey nanoarchitected electrodes. <i>Nano Futures</i> , 2018, 2, 035008.	1.0	15
61	A Simple Method of Residential Electricity Load Forecasting by Improved Bayesian Neural Networks. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-16.	0.6	15
62	Research on the Simulation of Wheelset Response Characteristic Identification of Railway Fastener Loosening. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-15.	0.6	4
63	Data on photovoltaic system using different perturb and observe methods under fast multi-changing solar irradiances. <i>Data in Brief</i> , 2018, 17, 169-171.	0.5	2
64	A Novel Control Strategy on Multiple-Mode Application of Electric Vehicle in Distributed Photovoltaic Systems. <i>Complexity</i> , 2018, 2018, 1-11.	0.9	2
65	Crack Detection Method of Sleeper Based on Cascade Convolutional Neural Network. <i>Journal of Advanced Transportation</i> , 2022, 2022, 1-14.	0.9	2