

Lele Peng

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5567966/publications.pdf>

Version: 2024-02-01

65
papers

13,832
citations

38660

50
h-index

98622

67
g-index

70
all docs

70
docs citations

70
times ranked

17972
citing authors

#	ARTICLE	IF	CITATIONS
1	The promises, challenges and pathways to room-temperature sodium-sulfur batteries. National Science Review, 2022, 9, nwab050.	4.6	68
2	A Silicon Monoxide Lithium-Ion Battery Anode with Ultrahigh Areal Capacity. Nano-Micro Letters, 2022, 14, 50.	14.4	59
3	Crack Detection Method of Sleeper Based on Cascade Convolutional Neural Network. Journal of Advanced Transportation, 2022, 2022, 1-14.	0.9	2
4	A Lightweight Model for Bearing Fault Diagnosis Based on Gramian Angular Field and Coordinate Attention. Machines, 2022, 10, 282.	1.2	20
5	A Comprehensive Detection System for Track Geometry Using Fused Vision and Inertia. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-15.	2.4	17
6	3D Holey Graphene/Polyacrylonitrile Sulfur Composite Architecture for High Loading Lithium Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2100448.	10.2	131
7	Silver nanoparticles boost charge-extraction efficiency in <i>Shewanella</i> microbial fuel cells. Science, 2021, 373, 1336-1340.	6.0	171
8	A fundamental look at electrocatalytic sulfur reduction reaction. Nature Catalysis, 2020, 3, 762-770.	16.1	455
9	Research on the Simulation of Wheelset Response Characteristic Identification of Railway Fastener Loosening. Mathematical Problems in Engineering, 2020, 2020, 1-15.	0.6	4
10	A nitrogen-doped mesopore-dominated carbon electrode allied with anti-freezing EMIBF ₄ GBL electrolyte for superior low-temperature supercapacitors. Journal of Materials Chemistry A, 2020, 8, 10386-10394.	5.2	21
11	Bacteria-Derived Biological Carbon Building Robust Li-S Batteries. Nano Letters, 2019, 19, 4384-4390.	4.5	95
12	Double-negative-index ceramic aerogels for thermal superinsulation. Science, 2019, 363, 723-727.	6.0	429
13	Hierarchical 3D electrodes for electrochemical energy storage. Nature Reviews Materials, 2019, 4, 45-60.	23.3	554
14	Size-dependent kinetics during non-equilibrium lithiation of nano-sized zinc ferrite. Nature Communications, 2019, 10, 93.	5.8	39
15	Stretchable All-Gel-State Fiber-Shaped Supercapacitors Enabled by Macromolecularly Interconnected 3D Graphene/Nanostructured Conductive Polymer Hydrogels. Advanced Materials, 2018, 30, e1800124.	11.1	396
16	Structural Engineering of 2D Nanomaterials for Energy Storage and Catalysis. Advanced Materials, 2018, 30, e1706347.	11.1	297
17	Data on photovoltaic system using different perturb and observe methods under fast multi-changing solar irradiances. Data in Brief, 2018, 17, 169-171.	0.5	2
18	Two-Dimensional Holey Nanoarchitectures Created by Confined Self-Assembly of Nanoparticles <i>via</i> Block Copolymers: From Synthesis to Energy Storage Property. ACS Nano, 2018, 12, 820-828.	7.3	62

#	ARTICLE	IF	CITATIONS
19	Cyanogel-Enabled Homogeneous Sb–Ni–C Ternary Framework Electrodes for Enhanced Sodium Storage. <i>ACS Nano</i> , 2018, 12, 759-767.	7.3	72
20	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
21	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
22	Holey 2D Nanomaterials for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1702179.	10.2	293
23	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
24	Probing enhanced lithium-ion transport kinetics in 2D holey nanoarchitected electrodes. <i>Nano Futures</i> , 2018, 2, 035008.	1.0	15
25	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
26	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
27	Solvent-Dependent Intercalation and Molecular Configurations in Metallocene-Layered Crystal Superlattices. <i>Nano Letters</i> , 2018, 18, 6071-6075.	4.5	19
28	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
29	Holey two-dimensional transition metal oxide nanosheets for efficient energy storage. <i>Nature Communications</i> , 2017, 8, 15139.	5.8	343
30	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
31	An All-Stretchable Component Sodium-Ion Full Battery. <i>Advanced Materials</i> , 2017, 29, 1700898.	11.1	141
32	Metallic Transition Metal Selenide Holey Nanosheets for Efficient Oxygen Evolution Electrocatalysis. <i>ACS Nano</i> , 2017, 11, 9550-9557.	7.3	273
33	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
34	General Facet-Controlled Synthesis of Single-Crystalline {010}-Oriented LiMPO ₄ (M = Mn, Tj) ETQq 0,0,rgBT /Overlock 10	3.2	30
35	Biobased Nano Porous Active Carbon Fibers for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15205-15215.	4.0	206
36	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

#	ARTICLE	IF	CITATIONS
37	Intercalation Pseudocapacitance in Ultrathin VOPO ₄ Nanosheets: Toward High-Rate Alkali-Ion-Based Electrochemical Energy Storage. Nano Letters, 2016, 16, 742-747.	4.5	250
38	Chemically Integrated Inorganic-Graphene Two-Dimensional Hybrid Materials for Flexible Energy Storage Devices. Small, 2016, 12, 6183-6199.	5.2	126
39	Two-Dimensional Materials for Beyond-Lithium-Ion Batteries. Advanced Energy Materials, 2016, 6, 1600025.	10.2	533
40	An advanced high-energy sodium ion full battery based on nanostructured Na ₂ Ti ₃ O ₇ /VOPO ₄ layered materials. Energy and Environmental Science, 2016, 9, 3399-3405.	15.6	247
41	Layer-by-Layer Assembly of Two-Dimensional Colloidal Cu ₂ Se Nanoplates and Their Layer-Dependent Conductivity. Chemistry of Materials, 2016, 28, 4307-4314.	3.2	28
42	Conductive Smart-Hybrid Hydrogels with PNIPAM and Nanostructured Conductive Polymers. Advanced Functional Materials, 2015, 25, 1219-1225.	7.8	363
43	Two-dimensional nanosheets based Li-ion full batteries with high rate capability and flexibility. Nano Energy, 2015, 12, 816-823.	8.2	99
44	Nanostructured conducting polymer hydrogels for energy storage applications. Nanoscale, 2015, 7, 12796-12806.	2.8	160
45	Nanostructured conductive polymers for advanced energy storage. Chemical Society Reviews, 2015, 44, 6684-6696.	18.7	719
46	Thermally Responsive Hydrogel Blends: A General Drug Carrier Model for Controlled Drug Release. Angewandte Chemie - International Edition, 2015, 54, 7376-7380.	7.2	141
47	Self-assembled LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ nanosheet cathodes with tunable rate capability. Nano Energy, 2015, 17, 36-42.	8.2	105
48	A chemistry and material perspective on lithium redox flow batteries towards high-density electrical energy storage. Chemical Society Reviews, 2015, 44, 7968-7996.	18.7	388
49	Single-Crystalline LiFePO ₄ Nanosheets for High-Rate Li-Ion Batteries. Nano Letters, 2014, 14, 2849-2853.	4.5	308
50	Two dimensional nanomaterials for flexible supercapacitors. Chemical Society Reviews, 2014, 43, 3303.	18.7	978
51	An improved model and parameters extraction for photovoltaic cells using only three state points at standard test condition. Journal of Power Sources, 2014, 248, 621-631.	4.0	69
52	Amorphous silicon honeycombs as a binder/carbon-free, thin-film Li-ion battery anode. Chemical Communications, 2014, 50, 12959-12962.	2.2	15
53	Chemically Integrated Two-Dimensional Hybrid Zinc Manganate/Graphene Nanosheets with Enhanced Lithium Storage Capability. ACS Nano, 2014, 8, 8610-8616.	7.3	141
54	Self-assembled LiFePO ₄ nanowires with high rate capability for Li-ion batteries. Chemical Communications, 2014, 50, 9569.	2.2	52

#	ARTICLE	IF	CITATIONS
55	A reversible $\text{Br}^{2-}/\text{Br}^{\cdot-}$ 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
56	Multifunctional Superhydrophobic Surfaces Templated From Innately Microstructured Hydrogel Matrix. <i>Nano Letters</i> , 2014, 14, 4803-4809.	4.5	183
57	A new method for determining the characteristics of solar cells. <i>Journal of Power Sources</i> , 2013, 227, 131-136.	4.0	67
58	Two-dimensional vanadyl phosphate ultrathin nanosheets for high energy density and flexible pseudocapacitors. <i>Nature Communications</i> , 2013, 4, 2431.	5.8	356
59	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
60	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
61	Highly entangled $\text{K}_0.5\text{V}_2\text{O}_5$ superlong nanobelt membranes for flexible nonvolatile memory devices. <i>Journal of Materials Chemistry</i> , 2012, 22, 18214.	6.7	22
62	Giant Moisture Responsiveness of VS_2 Ultrathin Nanosheets for Novel Touchless Positioning Interface. <i>Advanced Materials</i> , 2012, 24, 1969-1974.	11.1	364
63	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
64	Hydrogen-Incorporation Stabilization of Metallic $\text{VO}_2(\text{R})$ 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
65	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