

Jin Niu

List of Publications by Year in descending order

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36
papers

2,388
citations

361045

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344852

36
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docs citations

42
times ranked

2769
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomass-derived mesopore-dominant porous carbons with large specific surface area and high defect density as high performance electrode materials for Li-ion batteries and supercapacitors. <i>Nano Energy</i> , 2017, 36, 322-330.	8.2	469
2	Potassium compound-assistant synthesis of multi-heteroatom doped ultrathin porous carbon nanosheets for high performance supercapacitors. <i>Nano Energy</i> , 2018, 51, 366-372.	8.2	289
3	Porous carbon electrodes with battery-capacitive storage features for high performance Li-ion capacitors. <i>Energy Storage Materials</i> , 2018, 12, 145-152.	9.5	174
4	Biomass-derived nitrogen-doped porous carbons with tailored hierarchical porosity and high specific surface area for high energy and power density supercapacitors. <i>Applied Surface Science</i> , 2018, 427, 807-813.	3.1	167
5	Tremella-like N,O-codoped hierarchically porous carbon nanosheets as high-performance anode materials for high energy and ultrafast Na-ion capacitors. <i>Nano Energy</i> , 2017, 41, 285-292.	8.2	149
6	Nitrogen and oxygen co-doped carbon networks with a mesopore-dominant hierarchical porosity for high energy and power density supercapacitors. <i>Electrochimica Acta</i> , 2017, 238, 310-318.	2.6	139
7	Synchronously boosting gravimetric and volumetric performance: Biomass-derived ternary-doped microporous carbon nanosheet electrodes for supercapacitors. <i>Carbon</i> , 2018, 140, 664-672.	5.4	101
8	Porous Carbons Derived from Collagen-Enriched Biomass: Tailored Design, Synthesis, and Application in Electrochemical Energy Storage and Conversion. <i>Advanced Functional Materials</i> , 2019, 29, 1905095.	7.8	94
9	A facile and versatile strategy towards high-performance Si anodes for Li-ion capacitors: Concomitant conductive network construction and dual-interfacial engineering. <i>Nano Energy</i> , 2019, 63, 103824.	8.2	94
10	Mesopore- and Macropore-Dominant Nitrogen-Doped Hierarchically Porous Carbons for High-Energy and Ultrafast Supercapacitors in Non-Aqueous Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42797-42805.	4.0	92
11	Direct amination of Si nanoparticles for the preparation of Si@ultrathin SiO _x @graphene nanosheets as high performance lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19892-19900.	5.2	76
12	Intermetallic FePt@PtBi Core-Shell Nanoparticles for Oxygen Reduction Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21899-21904.	7.2	66
13	Heteroatom-doped carbon networks enabling robust and flexible silicon anodes for high energy Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18338-18347.	5.2	47
14	Porous carbons with tailored heteroatom doping and well-defined porosity as high-performance electrodes for robust Na-ion capacitors. <i>Journal of Power Sources</i> , 2019, 414, 68-75.	4.0	45
15	Intermetallic FePt@PtBi Core-Shell Nanoparticles for Oxygen Reduction Electrocatalysis. <i>Angewandte Chemie</i> , 2021, 133, 22070-22075.	1.6	43
16	Gelatin-derived carbon: Carbonization mechanism and application in K-ion storage. <i>Carbon</i> , 2021, 178, 775-782.	5.4	35
17	Sustainable Synthesis of Biomass-Derived Carbon Electrodes with Hybrid Energy-Storage Behaviors for Use in High-Performance Na-Ion Capacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 2478-2489.	2.5	33
18	Micropore-confined amorphous SnO ₂ subnanoclusters as robust anode materials for Na-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21711-21721.	5.2	32

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19	Phase Segregated Pt@SnO ₂ /C Nanohybrids for Highly Efficient Oxygen Reduction Electrocatalysis. <i>Small</i> , 2020, 16, e2005048.	5.2	32
20	Can closed shell graphitic materials be exfoliated? Defect induced porphyrin-like graphene from the cooperation of activation and oxidation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14103.	5.2	23
21	In Situ-Generated Volatile Precursor for CVD Growth of a Semimetallic 2D Dichalcogenide. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34401-34408.	4.0	23
22	A Highly Durable Rubber-Derived Lithium-Conducting Elastomer for Lithium Metal Batteries. <i>Advanced Science</i> , 2022, 9, e2200553.	5.6	22
23	Multifunctional sulfate-assisted synthesis of seaweed-like N,S-doped carbons as high-performance anodes for K-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9612-9620.	5.2	21
24	Rational design of viologen redox additives for high-performance supercapacitors with organic electrolytes. <i>Science China Materials</i> , 2021, 64, 329-338.	3.5	16
25	Biomass-derived carbon prepared through a quadruple-functional-salt approach for application in K-ion capacitors. <i>Chemical Engineering Journal</i> , 2022, 449, 137561.	6.6	15
26	B, N stabilization effect on multicavity carbon microspheres for boosting durable and fast potassium-ion storage. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 24-34.	5.0	13
27	Porous microtubes of nickel-cobalt double oxides as non-enzymatic hydrogen peroxide sensors. <i>Chinese Chemical Letters</i> , 2021, 32, 1181-1185.	4.8	12
28	Quenching as a Route to Defect-Rich RuPyrochlore Electrocatalysts toward the Oxygen Evolution Reaction. <i>Small Methods</i> , 2022, 6, e2101156.	4.6	11
29	Co-activation Pore Engineering of Polyphthalocyanine-Derived Carbon Nanosheets for Supercapacitors in Organic Electrolytes. <i>ACS Applied Energy Materials</i> , 2021, 4, 7751-7758.	2.5	9
30	Stable and conductive carbon networks enabling high-performance silicon anodes for lithium-ion batteries. <i>Cell Reports Physical Science</i> , 2022, 3, 100862.	2.8	9
31	Towards Si@SiO ₂ core-shell, yolk-shell, and SiO ₂ hollow structures from Si nanoparticles through a self-templated etching-deposition process. <i>RSC Advances</i> , 2014, 4, 29435-29438.	1.7	8
32	Promotion of hydrogen evolution catalysis by ordered hierarchically porous electrodes. <i>Catalysis Science and Technology</i> , 2021, 11, 2997-3001.	2.1	8
33	Gelatin-Derived 1D Carbon Nanofiber Architecture with Simultaneous Decoration of Single Fe _N Sites and Fe ₃ C Nanoparticles for Efficient Oxygen Reduction. <i>Chemistry - A European Journal</i> , 2021, 27, 10987-10997.	1.7	8
34	Potassium oxysalt-assisted strategy towards heteroatom-doped porous carbon electrodes for high-performance Na-ion capacitors. <i>Journal of Power Sources</i> , 2022, 541, 231688.	4.0	5
35	Biomass-Derived Ternary-Doped Porous Carbon Electrodes for Li-Ion Capacitors: Rational Preparation and Energy-Storage Mechanism Study. <i>Journal of the Electrochemical Society</i> , 2021, 168, 040521.	1.3	4
36	Collagen-Derived Porous Carbons: Porous Carbons Derived from Collagen-Enriched Biomass: Tailored Design, Synthesis, and Application in Electrochemical Energy Storage and Conversion (Adv. Funct.) <i>Tj ETQq0 0 0 rg88/Overlock 10 Tf 50</i>	2.8	4