

Xiaoming Fan

List of Publications by Year in descending order

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38
papers

3,330
citations

279487

23
h-index

301761

39
g-index

39
all docs

39
docs citations

39
times ranked

5232
citing authors

#	ARTICLE	IF	CITATIONS
1	Electroactive edge site-enriched nickel-cobalt sulfide into graphene frameworks for high-performance asymmetric supercapacitors. <i>Energy and Environmental Science</i> , 2016, 9, 1299-1307.	15.6	623
2	A Layered-Nanospace-Confinement Strategy for the Synthesis of Two-Dimensional Porous Carbon Nanosheets for High-Rate Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2015, 5, 1401761.	10.2	308
3	3D Architecture Materials Made of NiCoAl-LDH Nanoplates Coupled with NiCo-Carbonate Hydroxide Nanowires Grown on Flexible Graphite Paper for Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2014, 4, 1400761.	10.2	251
4	3D Porous N-Doped Graphene Frameworks Made of Interconnected Nanocages for Ultrahigh-Rate and Long-Life Li-O ₂ Batteries. <i>Advanced Functional Materials</i> , 2015, 25, 6913-6920.	7.8	231
5	Ultrafast Self-Assembly of Graphene Oxide-Induced Monolithic NiCo-Carbonate Hydroxide Nanowire Architectures with a Superior Volumetric Capacitance for Supercapacitors. <i>Advanced Functional Materials</i> , 2015, 25, 2109-2116.	7.8	230
6	Facile fabrication of MWCNT-doped NiCoAl-layered double hydroxide nanosheets with enhanced electrochemical performances. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1963-1968.	5.2	193
7	Nanohybrids from NiCoAl-LDH coupled with carbon for pseudocapacitors: understanding the role of nano-structured carbon. <i>Nanoscale</i> , 2014, 6, 3097-3104.	2.8	176
8	Hydrothermal synthesis and activation of graphene-incorporated nitrogen-rich carbon composite for high-performance supercapacitors. <i>Carbon</i> , 2014, 70, 130-141.	5.4	171
9	Boric acid-mediated B,N-codoped chitosan-derived porous carbons with a high surface area and greatly improved supercapacitor performance. <i>Nanoscale</i> , 2015, 7, 5120-5125.	2.8	151
10	Hydrothermal Synthesis of Phosphate-Functionalized Carbon Nanotube-Containing Carbon Composites for Supercapacitors with Highly Stable Performance. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2104-2110.	4.0	107
11	A General and Mild Approach to Controllable Preparation of Manganese-Based Micro- and Nanostructured Bars for High Performance Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3667-3671.	7.2	89
12	Micro-sized porous carbon spheres with ultra-high rate capability for lithium storage. <i>Nanoscale</i> , 2015, 7, 1791-1795.	2.8	88
13	Free-standing, hierarchically porous carbon nanotube film as a binder-free electrode for high-energy Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12033.	5.2	78
14	Aluminum and fluorine co-doping for promotion of stability and safety of lithium-rich layered cathode material. <i>Electrochimica Acta</i> , 2017, 236, 171-179.	2.6	75
15	Adsorptive Removal of Thiophenic Compounds from Oils by Activated Carbon Modified with Concentrated Nitric Acid. <i>Energy & Fuels</i> , 2013, 27, 1499-1505.	2.5	67
16	Freeze-drying for sustainable synthesis of nitrogen doped porous carbon cryogel with enhanced supercapacitor and lithium ion storage performance. <i>Nanotechnology</i> , 2015, 26, 374003.	1.3	63
17	Thermodynamically Stable Pickering Emulsion Configured with Carbon-Nanotube-Bridged Nanosheet-Shaped Layered Double Hydroxide for Selective Oxidation of Benzyl Alcohol. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 12203-12209.	4.0	53
18	A highly atom-efficient strategy to synthesize reduced graphene oxide-Mn ₃ O ₄ nanoparticles composites for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2016, 685, 949-956.	2.8	42

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19	CoP Microscale Prism-like Superstructure Arrays on Ni Foam as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>Inorganic Chemistry</i> , 2020, 59, 8522-8531.	1.9	38
20	Polystyrene sphere-mediated ultrathin graphene sheet-assembled frameworks for high-power density Li ⁺ O ₂ batteries. <i>Chemical Communications</i> , 2015, 51, 13233-13236.	2.2	35
21	Ultrathin Nitrogen-Enriched Hybrid Carbon Nanosheets for Supercapacitors with Ultrahigh Rate Performance and High Energy Density. <i>ChemElectroChem</i> , 2017, 4, 369-375.	1.7	32
22	Facile Fabrication of Bicomponent CoO/CoFe ₂ O ₄ -N-Doped Graphene Hybrids with Ultrahigh Lithium Storage Capacity. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 91-97.	1.2	25
23	Kinetically Controlled Synthesis of LiNi _{0.5} Mn _{1.5} O ₄ Micro- and Nanostructured Hollow Spheres as High-Rate Cathode Materials for Lithium Ion Batteries. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 9352-9361.	1.8	25
24	Thermally activated carbon-nitrogen vacancies in double-shelled NiFe Prussian blue analogue nanocages for enhanced electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12734-12745.	5.2	25
25	Hierarchical micro/nanostructured WO ₃ with structural water for high-performance pseudocapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 765, 489-496.	2.8	22
26	Hierarchical Carbon-Encapsulated Iron Nanoparticles as a Magnetically Separable Adsorbent for Removing Thiophene in Liquid Fuel. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 637-644.	1.2	18
27	Surface-Restructured Core/Shell NiO@Co ₃ O ₄ Nanocomposites as Efficient Catalysts for the Oxygen Evolution Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 16581-16587.	1.8	18
28	Hydrolysis-Coupled Redox Reaction to 3D Cu/Fe ₃ O ₄ Nanorod Array Electrodes for High-Performance Lithium-Ion Batteries. <i>Inorganic Chemistry</i> , 2017, 56, 7657-7667.	1.9	17
29	A fluoride ion-mediated continuous etching-redeposition strategy to synthesize Si nanocomposites with appropriate SiO ₂ coating layers for Li-ion batteries. <i>Chemical Communications</i> , 2018, 54, 12447-12450.	2.2	16
30	Sequential precipitation induced interdiffusion: a general strategy to synthesize microtubular materials for high performance lithium ion battery electrodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18430-18437.	5.2	12
31	Preparation of Single-Walled Carbon Nanotubes from Fullerene Waste Soot. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 14-18.	3.2	10
32	Oriented-Redox Induced Uniform MnO ₂ Coating on Ni ₃ S ₂ Nanorod Arrays as a Stable Anode for Enhanced Performances of Lithium Ion Battery. <i>Langmuir</i> , 2020, 36, 13555-13562.	1.6	10
33	Stepwise co-precipitation to the synthesis of urchin-like NiCo ₂ O ₄ hollow nanospheres as high performance anode material. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 1095-1104.	1.5	9
34	Preferential Co substitution on Ni sites in Ni-Fe oxide arrays enabling large-current-density alkaline oxygen evolution. <i>Chemical Science</i> , 2022, 13, 7332-7340.	3.7	7
35	A General and Mild Approach to Controllable Preparation of Manganese-Based Micro- and Nanostructured Bars for High Performance Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2016, 128, 3731-3735.	1.6	5
36	Multi-shelled Ni ₆ MnO ₈ hollow microspheres for high-performance supercapacitors. <i>Materials Research Express</i> , 2020, 7, 065502.	0.8	3

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37	Supercapacitors: 3D Architecture Materials Made of NiCoAl-LDH Nanoplates Coupled with NiCo-Carbonate Hydroxide Nanowires Grown on Flexible Graphite Paper for Asymmetric Supercapacitors (Adv. Energy Mater. 18/2014). Advanced Energy Materials, 2014, 4, n/a-n/a.	10.2	2
38	Monolithic Electrodes: Ultrafast Self-Assembly of Graphene Oxide-Induced Monolithic NiCo-Carbonate Hydroxide Nanowire Architectures with a Superior Volumetric Capacitance for Supercapacitors (Adv. Funct. Mater. 14/2015). Advanced Functional Materials, 2015, 25, 2203-2203.	7.8	2