

He Qiu

List of Publications by Year in descending order

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32
papers

2,079
citations

270111

25
h-index

466096

32
g-index

32
all docs

32
docs citations

32
times ranked

3357
citing authors

#	ARTICLE	IF	CITATIONS
1	Establishing a theoretical insight for penta-coordinated iron-nitrogen-carbon catalysts toward oxygen reaction. <i>Nano Research</i> , 2022, 15, 6067-6075.	5.8	28
2	Niobium oxyphosphate nanosheet assembled two-dimensional anode material for enhanced lithium storage. <i>Journal of Energy Chemistry</i> , 2021, 53, 268-275.	7.1	14
3	ZIF-8 derived hollow carbon to trap polysulfides for high performance lithium-sulfur batteries. <i>Nanoscale</i> , 2021, 13, 11086-11092.	2.8	16
4	Rationally design lithiophilic surfaces toward high-energy Lithium metal battery. <i>Energy Storage Materials</i> , 2021, 37, 40-46.	9.5	41
5	Phosphorus-doped thick carbon electrode for high-energy density and long-life supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 414, 128767.	6.6	114
6	Computational investigation of 2D 3d/4d hexagonal transition metal borides for metal-ion batteries. <i>Electrochimica Acta</i> , 2021, 384, 138404.	2.6	16
7	Exploring the anchoring effect and catalytic mechanism of 3d transition metal phthalocyanine for S8/LiPSs: A density functional theory study. <i>Applied Surface Science</i> , 2021, 558, 149928.	3.1	17
8	Virtual screening of two-dimensional selenides and transition metal doped SnSe for lithium-sulfur batteries: A first-principles study. <i>Applied Surface Science</i> , 2021, 570, 151213.	3.1	36
9	Separator coatings as efficient physical and chemical hosts of polysulfides for high-sulfur-loaded rechargeable lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020, 44, 51-60.	7.1	47
10	Interface enhanced well-dispersed Co9S8 nanocrystals as an efficient polysulfide host in lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020, 48, 109-115.	7.1	59
11	Transition metals doped borophene-graphene heterostructure for robust polysulfide anchoring: A first principle study. <i>Applied Surface Science</i> , 2020, 534, 147575.	3.1	18
12	Oxygen defects boost polysulfides immobilization and catalytic conversion: First-principles computational characterization and experimental design. <i>Nano Research</i> , 2020, 13, 2299-2307.	5.8	36
13	Active sites enriched hard carbon porous nanobelts for stable and high-capacity potassium-ion storage. <i>Nano Energy</i> , 2020, 77, 105018.	8.2	96
14	Three-Dimensional Porous Nitrogen-Doped Carbon Nanosheet with Embedded Ni ₃ Co ₃ S ₄ Nanocrystals for Advanced Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9181-9189.	4.0	36
15	Multistep Reaction Pathway for CO ₂ Reduction on Hydride-Capped Si Nanosheets. <i>ChemCatChem</i> , 2020, 12, 722-725.	1.8	1
16	A robust electrospun separator modified with in situ grown metal-organic frameworks for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2020, 395, 124979.	6.6	85
17	Facile formation of tetragonal-Nb ₂ O ₅ microspheres for high-rate and stable lithium storage with high areal capacity. <i>Science Bulletin</i> , 2020, 65, 1154-1162.	4.3	64
18	Insights into the Storage Mechanism of Layered VS ₂ Cathode in Alkali Metal-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1904118.	10.2	67

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19	Accurate Binding Energies for Lithium Polysulfides and Assessment of Density Functionals for Lithium–Sulfur Battery Research. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20737-20747.	1.5	34
20	Uniform zeolitic imidazolate framework coating via in situ recoordination for efficient polysulfide trapping. <i>Energy Storage Materials</i> , 2019, 23, 55-61.	9.5	33
21	A Novel Dendrite-Free Mn ²⁺ /Zn ²⁺ Hybrid Battery with 2.3 V Voltage Window and 11000 Cycle Lifespan. <i>Advanced Energy Materials</i> , 2019, 9, 1901469.	10.2	175
22	Identification of Phase Control of Carbon-Confined Nb ₂ O ₅ Nanoparticles toward High-Performance Lithium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1802695.	10.2	161
23	Multifunctional Effects of Sulfonyl-Anchored, Dual-Doped Multilayered Graphene for High Areal Capacity Lithium Sulfur Batteries. <i>ACS Central Science</i> , 2019, 5, 1946-1958.	5.3	29
24	Density Functional Theory for Battery Materials. <i>Energy and Environmental Materials</i> , 2019, 2, 264-279.	7.3	186
25	Three-dimensional carbon network confined antimony nanoparticle anodes for high-capacity K-ion batteries. <i>Nanoscale</i> , 2018, 10, 6820-6826.	2.8	109
26	Facile template-free synthesis of uniform carbon-confined V ₂ O ₃ hollow spheres for stable and fast lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6220-6224.	5.2	47
27	Extrapolation of high-order correlation energies: the WMS model. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27375-27384.	1.3	34
28	A 3D Nitrogen-Doped Graphene/TiN Nanowires Composite as a Strong Polysulfide Anchor for Lithium–Sulfur Batteries with Enhanced Rate Performance and High Areal Capacity. <i>Advanced Materials</i> , 2018, 30, e1804089.	11.1	251
29	Porous CaFe ₂ O ₄ as a promising lithium ion battery anode: a trade-off between high capacity and long-term stability. <i>Nanoscale</i> , 2018, 10, 12963-12969.	2.8	33
30	Self-sacrificed synthesis of carbon-coated SiO _x nanowires for high capacity lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4183-4189.	5.2	112
31	Oxalate-assisted formation of uniform carbon-confined SnO ₂ nanotubes with enhanced lithium storage. <i>Chemical Communications</i> , 2017, 53, 9542-9545.	2.2	22
32	Solvent-Free Synthesis of Uniform MOF Shell-Derived Carbon Confined SnO ₂ /Co Nanocubes for Highly Reversible Lithium Storage. <i>Small</i> , 2017, 13, 1701504.	5.2	62