

Shuai Gu

List of Publications by Citations

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38
papers

1,095
citations

17
h-index

32
g-index

39
ext. papers

1,526
ext. citations

9
avg. IF

4.51
L-index

#	Paper	IF	Citations
38	Tunable Redox Chemistry and Stability of Radical Intermediates in 2D Covalent Organic Frameworks for High Performance Sodium Ion Batteries. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9623-9628	16.4	158
37	Defect-Assisted Selective Surface Phosphorus Doping to Enhance Rate Capability of Titanium Dioxide for Sodium Ion Batteries. <i>ACS Nano</i> , 2019 , 13, 9247-9258	16.7	98
36	Polyvinylpyrrolidone-Induced Uniform Surface-Conductive Polymer Coating Endows Ni-Rich LiNiCoMnO with Enhanced Cyclability for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12594-12604	9.5	94
35	Facile Carbonization of Microporous Organic Polymers into Hierarchically Porous Carbons Targeted for Effective CO ₂ Uptake at Low Pressures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18383-92	9.5	75
34	A rational construction of microporous imide-bridged covalent-organic polytriazines for high-enthalpy small gas absorption. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 878-885	13	69
33	1,3,5-Triazine-Based Microporous Polymers with Tunable Porosities for CO ₂ Capture and Fluorescent Sensing. <i>Macromolecules</i> , 2017 , 50, 8512-8520	5.5	68
32	Carbazole-decorated covalent triazine frameworks: Novel nonmetal catalysts for carbon dioxide fixation and oxygen reduction reaction. <i>Journal of Catalysis</i> , 2018 , 362, 1-9	7.3	68
31	Tunable porosity of nanoporous organic polymers with hierarchical pores for enhanced CO ₂ capture. <i>Polymer Chemistry</i> , 2016 , 7, 3416-3422	4.9	63
30	A Luminescent Hypercrosslinked Conjugated Microporous Polymer for Efficient Removal and Detection of Mercury Ions. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 1566-71	4.8	55
29	Metal Microporous Aromatic Polymers with Improved Performance for Small Gas Storage. <i>Chemistry - A European Journal</i> , 2015 , 21, 13357-63	4.8	36
28	Development of vertically aligned trimetallic Mg-Ni-Co oxide grass-like nanostructure for high-performance energy storage applications. <i>Journal of Colloid and Interface Science</i> , 2021 , 582, 782-792	7.3	29
27	Redox of Dual-Radical Intermediates in a Methylene-Linked Covalent Triazine Framework for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 514-521	9.5	20
26	Cobalt-Vanadium Hydroxide Nanoneedles with a Free-Standing Structure as High-Performance Oxygen Evolution Reaction Electrocatalysts. <i>ChemElectroChem</i> , 2019 , 6, 2050-2055	4.3	19
25	Hyper-crosslinked aromatic polymers with improved microporosity for enhanced CO ₂ /N ₂ and CO ₂ /CH ₄ selectivity. <i>New Journal of Chemistry</i> , 2017 , 41, 6834-6839	3.6	18
24	In Situ Study of K ⁺ Electrochemical Intercalating into MoS ₂ Flakes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5067-5072	3.8	18
23	SnS/SnSb@C Nanofibers with Enhanced Cycling Stability via Vulcanization as an Anode for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2018 , 5, 1098-1104	4.3	18
22	Rapid microwave-assisted refluxing synthesis of hierarchical mulberry-shaped Na ₃ V ₂ (PO ₄) ₂ O ₂ F@C as high performance cathode for sodium & lithium-ion batteries. <i>Science China Materials</i> , 2019 , 62, 474-486	7.1	18

21	The role of the internal molecular free volume in defining organic porous copolymer properties: tunable porosity and highly selective CO ₂ adsorption. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11323-11339	3.6	17
20	Dextran Sulfate Lithium as Versatile Binder to Stabilize High-Voltage LiCoO ₂ to 4.6 V. <i>Advanced Energy Materials</i> , 2021 , 11, 2101864	21.8	17
19	Revealing Mechanism of Li ₃ PO ₄ Coating Suppressed Surface Oxygen Release for Commercial Ni-Rich Layered Cathodes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7445-7455	6.1	15
18	Facile preparation of CoO nanoparticles embedded N-doped porous carbon from conjugated microporous polymer for oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 550-557	9.3	14
17	Recent progress in trimetallic/ternary-metal oxides nanostructures: Misinterpretation/misconception of electrochemical data and devices. <i>Applied Materials Today</i> , 2022 , 26, 101297	6.6	11
16	Dilute Aqueous-Aprotic Hybrid Electrolyte Enabling a Wide Electrochemical Window through Solvation Structure Engineering. <i>Advanced Materials</i> , 2021 , 33, e2102390	24	11
15	Building metal-functionalized porous carbons from microporous organic polymers for CO ₂ capture and conversion under ambient conditions. <i>Catalysis Science and Technology</i> , 2019 , 9, 4422-4428	5.5	10
14	Synergistic electronic and morphological modulation on ternary Co _{1-x} V _x P nanoneedle arrays for hydrogen evolution reaction with large current density. <i>Science China Materials</i> , 2021 , 64, 880-891	7.1	9
13	Phosphorus containing layered quadruple hydroxide electrode materials on lab waste recycled flexible current collector. <i>Journal of Colloid and Interface Science</i> , 2021 , 609, 566-566	9.3	8
12	Selective edge etching to improve the rate capability of Prussian blue analogues for sodium ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1361-1366	6.8	7
11	Microporous Fe ₃ N ₄ catalysts derived from biomass aerogel for a high-performance Zn-air battery. <i>Materials Today Energy</i> , 2021 , 21, 100826	7	7
10	Suppressing Continuous Volume Expansion of Si Nanoparticles by an Artificial Solid Electrolyte Interphase for High-Performance Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8059-8068	8.3	6
9	Extra Sodiation Sites in Hard Carbon for High Performance Sodium Ion Batteries.. <i>Small Methods</i> , 2021 , 5, e2100580	12.8	6
8	Additive-Free Energetic Film Based on Graphene Oxide and Nanoscale Energetic Coordination Polymer for Transient Microchip. <i>Advanced Functional Materials</i> , 2021 , 31, 2103199	15.6	5
7	Ternary Transition Metal Sulfide as High Real Energy Cathode for Lithium-Sulfur Pouch Cell Under Lean Electrolyte Conditions.. <i>Small Methods</i> , 2022 , 6, e2101402	12.8	4
6	Redox of naphthalenediimide radicals in a 3D polyimide for stable Li-ion batteries. <i>Chemical Communications</i> , 2021 , 57, 7810-7813	5.8	4
5	Gradient nano-recipes to guide lithium deposition in a tunable reservoir for anode-free batteries. <i>Energy Storage Materials</i> , 2022 , 45, 40-47	19.4	3
4	Co single atoms and nanoparticles dispersed on N-doped carbon nanotube as high-performance catalysts for Zn-air batteries. <i>Rare Metals</i> , 1	5.5	3

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| 3 | Hierarchical mesoporous heteroatom-doped carbon accelerating the adsorption and conversion of polysulfide for high performance Lithium-Sulfur batteries. <i>Composites Communications</i> , 2022 , 30, 101079 ^{6.7} | 2 |
| 2 | Coupling a Three-Dimensional Nanopillar and Robust Film to Guide Li-Ion Flux for Dendrite-Free Lithium Metal Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45416-45425 | 9.5 2 |
| 1 | Oxidation State as a Descriptor in Oxygen Reduction Electrocatalysis. <i>CCS Chemistry</i> , 1-12 | 7.2 1 |