

Guoqiang Zou

List of Publications by Year in descending order

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papers

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38742

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citing authors

#	ARTICLE	IF	CITATIONS
1	Large-Area Carbon Nanosheets Doped with Phosphorus: A High-Performance Anode Material for Sodium-Ion Batteries. <i>Advanced Science</i> , 2017, 4, 1600243.	11.2	450
2	Fundamental and solutions of microcrack in Ni-rich layered oxide cathode materials of lithium-ion batteries. <i>Nano Energy</i> , 2021, 83, 105854.	16.0	264
3	Graphene-Rich Wrapped Petal-Like Rutile TiO_2 tuned by Carbon Dots for High-Performance Sodium Storage. <i>Advanced Materials</i> , 2016, 28, 9391-9399.	21.0	262
4	H ⁺ -Insertion Boosted LiMnO_2 for an Aqueous Zn-Ion Battery. <i>Small</i> , 2020, 16, e1905842.	10.0	260
5	Hierarchical Hollow-Microsphere Metal-Selenide@Carbon Composites with Rational Surface Engineering for Advanced Sodium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1803035.	19.5	234
6	Advanced Hierarchical Vesicular Carbon Co-Doped with S, P, N for High-Rate Sodium Storage. <i>Advanced Science</i> , 2018, 5, 1800241.	11.2	225
7	Black Anatase Titania with Ultrafast Sodium-Storage Performances Stimulated by Oxygen Vacancies. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9142-9151.	8.0	193
8	Electrochemical exfoliation of graphene-like two-dimensional nanomaterials. <i>Nanoscale</i> , 2019, 11, 16-33.	5.6	184
9	Kilogram-Scale Synthesis and Functionalization of Carbon Dots for Superior Electrochemical Potassium Storage. <i>ACS Nano</i> , 2021, 15, 6872-6885.	14.6	184
10	Garnet Solid Electrolyte for Advanced All-Solid-State Li Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2000648.	19.5	182
11	Nitrogen Doped/Carbon Tuning Yolk-Like TiO_2 and Its Remarkable Impact on Sodium Storage Performances. <i>Advanced Energy Materials</i> , 2017, 7, 1600173.	19.5	159
12	Pseudo-Bonding and Electric-Field Harmony for Li-Rich Mn-Based Oxide Cathode. <i>Advanced Functional Materials</i> , 2020, 30, 2004302.	14.9	149
13	Controllable Chain-Length for Covalent Sulfur-Carbon Materials Enabling Stable and High-Capacity Sodium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1803478.	19.5	145
14	Controllable Interlayer Spacing of Sulfur-Doped Graphitic Carbon Nanosheets for Fast Sodium-Ion Batteries. <i>Small</i> , 2017, 13, 1700762.	10.0	144
15	Prelithiation/Presodiation Techniques for Advanced Electrochemical Energy Storage Systems: Concepts, Applications, and Perspectives. <i>Advanced Functional Materials</i> , 2021, 31, 2005581.	14.9	138
16	Liquid Alloy Interlayer for Aqueous Zinc-Ion Battery. <i>ACS Energy Letters</i> , 2021, 6, 675-683.	17.4	135
17	Yolk-Shell-Structured Bismuth@N-Doped Carbon Anode for Lithium-Ion Battery with High Volumetric Capacity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10829-10840.	8.0	132
18	Ultrafast Sodium Full Batteries Derived from XFe_2 (X = Co, Ni, Mn) Prussian Blue Analogs. <i>Advanced Materials</i> , 2019, 31, e1806092.	21.0	132

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19	Recent progress on electrolyte additives for stable lithium metal anode. <i>Energy Storage Materials</i> , 2020, 32, 306-319.	18.0	126
20	A kinetically well-matched full-carbon sodium-ion capacitor. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13540-13549.	10.3	116
21	Functionalized carbon dots for advanced batteries. <i>Energy Storage Materials</i> , 2021, 37, 8-39.	18.0	116
22	Graphitic Carbon Quantum Dots Modified Nickel Cobalt Sulfide as Cathode Materials for Alkaline Aqueous Batteries. <i>Nano-Micro Letters</i> , 2020, 12, 16.	27.0	114
23	Insights into Enhanced Capacitive Behavior of Carbon Cathode for Lithium Ion Capacitors: The Coupling of Pore Size and Graphitization Engineering. <i>Nano-Micro Letters</i> , 2020, 12, 121.	27.0	111
24	Hierarchical NiS ₂ Modified with Bifunctional Carbon for Enhanced Potassium-Ion Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1903454.	14.9	109
25	Comprehensive Understanding of Sodium-Ion Capacitors: Definition, Mechanisms, Configurations, Materials, Key Technologies, and Future Developments. <i>Advanced Energy Materials</i> , 2021, 11, 2003804.	19.5	105
26	Composition Engineering Boosts Voltage Windows for Advanced Sodium-Ion Batteries. <i>ACS Nano</i> , 2019, 13, 10787-10797.	14.6	90
27	High-Yield Carbon Dots Interlayer for Ultra-Stable Zinc Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	90
28	N-rich carbon coated CoSnO ₃ derived from <i>in situ</i> construction of a Co-MOF with enhanced sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4839-4847.	10.3	84
29	Bi Dots Confined by Functional Carbon as High-Performance Anode for Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2000756.	14.9	84
30	Preparation of S/N-codoped carbon nanosheets with tunable interlayer distance for high-rate sodium-ion batteries. <i>Green Chemistry</i> , 2017, 19, 4622-4632.	9.0	81
31	Stabilizing Intermediate Phases via Efficient Entrapment Effects of Layered VS ₄ /SnS@C Heterostructure for Ultralong Lifespan Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2103802.	14.9	81
32	Pinecone-like hierarchical anatase TiO ₂ bonded with carbon enabling ultrahigh cycling rates for sodium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12591-12601.	10.3	78
33	Demystifying the Lattice Oxygen Redox in Layered Oxide Cathode Materials of Lithium-Ion Batteries. <i>ACS Nano</i> , 2021, 15, 6061-6104.	14.6	77
34	Size-Tunable Olive-Like Anatase TiO ₂ Coated with Carbon as Superior Anode for Sodium-Ion Batteries. <i>Small</i> , 2016, 12, 5554-5563.	10.0	76
35	Advanced Pre-Diagnosis Method of Biomass Intermediates Toward High Energy Dual-Carbon Potassium-Ion Capacitor. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	76
36	High-Throughput Production of Cheap Mineral-Based Heterostructures for High Power Sodium Ion Capacitors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	75

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37	Bi ²⁺ -Based Electrode Materials for Alkali Metal-Ion Batteries. <i>Small</i> , 2020, 16, e2004022.	10.0	71
38	3D hollow porous carbon microspheres derived from Mn-MOFs and their electrochemical behavior for sodium storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23550-23558.	10.3	69
39	Surface-Driven Energy Storage Behavior of Dual-Heteroatoms Functionalized Carbon Material. <i>Advanced Functional Materials</i> , 2019, 29, 1900941.	14.9	68
40	Enabling the sustainable recycling of LiFePO ₄ from spent lithium-ion batteries. <i>Green Chemistry</i> , 2022, 24, 2506-2515.	9.0	68
41	Atomical Reconstruction and Cationic Reordering for Nickel-Rich Layered Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	67
42	Electrochemically Exfoliated Phosphorene-Graphene Hybrid for Sodium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1800328.	8.6	66
43	Ultra-Low-Dose Pre-Metallation Strategy Served for Commercial Metal-Ion Capacitors. <i>Nano-Micro Letters</i> , 2022, 14, 53.	27.0	65
44	Quinone/ester-based oxygen functional group-incorporated full carbon Li-ion capacitor for enhanced performance. <i>Nanoscale</i> , 2020, 12, 3677-3685.	5.6	64
45	Voltage-Induced High-Efficient In Situ Presodiation Strategy for Sodium Ion Capacitors. <i>Small Methods</i> , 2020, 4, 1900763.	8.6	60
46	Olivine LiMn _x Fe _{1-x} PO ₄ cathode materials for lithium ion batteries: restricted factors of rate performances. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14214-14232.	10.3	60
47	The bond evolution mechanism of covalent sulfurized carbon during electrochemical sodium storage process. <i>Science China Materials</i> , 2019, 62, 1127-1138.	6.3	58
48	High Sulfur-Doped Hard Carbon with Advanced Potassium Storage Capacity via a Molten Salt Method. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 30431-30437.	8.0	58
49	Advanced Battery-Type Anode Materials for High-Performance Sodium-Ion Capacitors. <i>Small Methods</i> , 2020, 4, 2000401.	8.6	56
50	Carbon Dots Evoked Li Ion Dynamics for Solid State Battery. <i>Small</i> , 2021, 17, e2102978.	10.0	54
51	Molecularly Compensated Pre-Metallation Strategy for Metal-Ion Batteries and Capacitors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17070-17079.	13.8	52
52	Element substitution of a spinel LiMn ₂ O ₄ cathode. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21532-21550.	10.3	51
53	Interfacially Redistributed charge for robust lithium metal anode. <i>Nano Energy</i> , 2021, 87, 106212.	16.0	48
54	Recent advances of composite electrolytes for solid-state Li batteries. <i>Journal of Energy Chemistry</i> , 2022, 67, 524-548.	12.9	47

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55	Solid Solution Metal Chalcogenides for Sodium-Ion Batteries: The Recent Advances as Anodes. <i>Small</i> , 2021, 17, e2101058.	10.0	45
56	Dual Functions of Potassium Antimony(III)-Tartrate in Tuning Antimony/Carbon Composites for Long-Life Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1705744.	14.9	42
57	Boosting the ionic conductivity of PEO electrolytes by waste eggshell-derived fillers for high-performance solid lithium/sodium batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1315-1323.	5.9	38
58	Chemical Bonding and Physical Trapping Se Electrode for Long-Life Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1809014.	14.9	36
59	Structure and Interface Modification of Carbon Dots for Electrochemical Energy Application. <i>Small</i> , 2021, 17, e2102091.	10.0	36
60	Hierarchical bismuth composite for fast lithium storage: Carbon dots tuned interfacial interaction. <i>Energy Storage Materials</i> , 2022, 44, 145-155.	18.0	35
61	Nitrogen-doped Carbon Coated Na ₃ V ₂ (PO ₄) ₃ with Superior Sodium Storage Capability. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 459-466.	2.6	34
62	Chemical-Mechanical Effects in Ni-Rich Cathode Materials. <i>Chemistry of Materials</i> , 2022, 34, 1509-1523.	6.7	34
63	Single Particle Electrochemistry of Collision. <i>Small</i> , 2019, 15, e1804908.	10.0	33
64	Revealing dual capacitive mechanism of carbon cathode toward ultrafast quasi-solid-state lithium ion capacitors. <i>Journal of Energy Chemistry</i> , 2021, 60, 209-221.	12.9	33
65	Functional carbon materials processed by NH ₃ plasma for advanced full-carbon sodium-ion capacitors. <i>Chemical Engineering Journal</i> , 2021, 420, 129647.	12.7	32
66	Highly stable zinc metal anode enabled by oxygen functional groups for advanced Zn-ion supercapacitors. <i>Chemical Communications</i> , 2021, 57, 528-531.	4.1	29
67	A high-rate capability LiFePO ₄ /C cathode achieved by the modulation of the band structures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24686-24694.	10.3	28
68	Evaluating the influences of the sulfur content in precursors on the structure and sodium storage performances of carbon materials. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11488-11495.	10.3	27
69	General Synthesis of Heteroatom-Doped Hierarchical Carbon toward Excellent Electrochemical Energy Storage. <i>Batteries and Supercaps</i> , 2019, 2, 712-722.	4.7	27
70	Defect Rich Hierarchical Porous Carbon for High Power Supercapacitors. <i>Frontiers in Chemistry</i> , 2020, 8, 43.	3.6	27
71	Advanced Carbon Materials for Sodium-Ion Capacitors. <i>Batteries and Supercaps</i> , 2021, 4, 538-553.	4.7	27
72	Bi ₂ MoO ₆ Microsphere with Double-Polyaniline Layers toward Ultrastable Lithium Energy Storage by Reinforced Structure. <i>Inorganic Chemistry</i> , 2019, 58, 6410-6421.	4.0	26

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73	Rod Sb_2Mo_6 : Structure Evolution and Sodium Storage for Sodium-Ion Batteries. Small Methods, 2019, 3, 1800533.	8.6	26
74	Manganese-based layered oxide cathodes for sodium ion batteries. Nano Select, 2020, 1, 200-225.	3.7	25
75	Electrochemically Modulated $\text{LiNi}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$ Cathodes for Lithium-Ion Batteries. Small Methods, 2019, 3, 1900065.	8.6	24
76	Electrochemically intercalated intermediate induced exfoliation of few-layer MoS_2 from molybdenite for long-life sodium storage. Science China Materials, 2021, 64, 115-127.	6.3	22
77	Iron-Based Layered Cathodes for Sodium-Ion Batteries. Batteries and Supercaps, 2021, 4, 1657-1679.	4.7	19
78	$\text{Li}_4\text{Ti}_5\text{O}_{12}$ quantum dot decorated carbon frameworks from carbon dots for fast lithium ion storage. Materials Chemistry Frontiers, 2019, 3, 1761-1767.	5.9	18
79	Trace tea polyphenols enabling reversible dendrite-free zinc anode. Journal of Colloid and Interface Science, 2022, 624, 450-459.	9.4	18
80	Heterogeneous Interface Design for Enhanced Sodium Storage: Sb Quantum Dots Confined by Functional Carbon. Small Methods, 2021, 5, e2100188.	8.6	17
81	MnO_2 Nanowires Anchored with Graphene Quantum Dots for Stable Aqueous Zinc-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 10940-10947.	5.1	17
82	Highly efficient re-cycle/generation of LiCoO_2 cathode assisted by 2-naphthalenesulfonic acid. Journal of Hazardous Materials, 2021, 416, 126114.	12.4	16
83	Presodiation Strategies for the Promotion of Sodium-Based Energy Storage Systems. Chemistry - A European Journal, 2021, 27, 16082-16092.	3.3	15
84	Enabling Reversible Reaction by Uniform Distribution of Heterogeneous Intermediates on Defect-Rich SnSSe/C Layered Heterostructure for Ultralong-Cycling Sodium Storage. Small, 2022, 18, .	10.0	14
85	Electrochemically captured Zintl cluster-induced bismuthene for sodium-ion storage. Chemical Communications, 2021, 57, 2396-2399.	4.1	13
86	Synergistic effect of cross-linked carbon nanosheet frameworks and Sb on the enhancement of sodium storage performances. New Journal of Chemistry, 2017, 41, 13724-13731.	2.8	12
87	Monocrystal $\text{Cu}_3\text{Mo}_2\text{O}_9$ Confined in Polyaniline Protective Layer: an Effective Strategy for Promoting Lithium Storage Stability. ChemElectroChem, 2019, 6, 1688-1695.	3.4	12
88	Zintl chemistry: Current status and future perspectives. Chemical Engineering Journal, 2022, 433, 133841.	12.7	11
89	Mitigating the Jahn-Teller distortion driven by the spin-orbit coupling of lithium manganate cathode. Journal of Energy Chemistry, 2022, 72, 379-387.	12.9	11
90	Interfacial regulation of dendrite-free zinc anodes through a dynamic hydrophobic molecular membrane. Journal of Materials Chemistry A, 2021, 9, 14265-14269.	10.3	10

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91	Bi-doped carbon dots for a stable lithium metal anode. Chemical Communications, 2022, 58, 6449-6452.	4.1	10
92	Perovskite ABO_3 -Type MOF-Derived Carbon Decorated Fe_3O_4 with Enhanced Lithium Storage Performance. ChemElectroChem, 2018, 5, 3426-3436.	3.4	9
93	Liquid Alloying Na-K for Sodium Metal Anodes. Journal of Physical Chemistry Letters, 2021, 12, 9321-9327.	4.6	9
94	Electronic Effect and Regiochemistry of Substitution in Pre-sodiation Chemistry. Journal of Physical Chemistry Letters, 2021, 12, 11968-11979.	4.6	7
95	Carbon Dots-Regulated Pomegranate-Like Metal Oxide Composites: From Growth Mechanism to Lithium Storage. Small Methods, 2022, 6, e2200245.	8.6	5
96	Phase-Controllable Cobalt Phosphides Induced through Hydrogel for Higher Lithium Storages. Inorganic Chemistry, 2020, 59, 6471-6480.	4.0	4
97	Molecularly Compensated Pre-Metallation Strategy for Metal-Ion Batteries and Capacitors. Angewandte Chemie, 2021, 133, 17207-17216.	2.0	4
98	Electrochemical Zintl Cluster Bi_{22}^{4-} induced chemically bonded bismuth / graphene oxide composite for sodium-ion batteries. Electrochimica Acta, 2022, 413, 140174.	5.2	4
99	Energy Storage: Large-Area Carbon Nanosheets Doped with Phosphorus: A High-Performance Anode Material for Sodium-Ion Batteries (Adv. Sci. 1/2017). Advanced Science, 2017, 4, .	11.2	3
100	Coupling regeneration strategy of lithium-ion electrode materials turned with naphthalenedisulfonic acid. Waste Management, 2021, 136, 1-10.	7.4	3
101	Electrochemically Engineering Antimony Interspersed on Graphene toward Advanced Sodium-Storage Anodes. Inorganic Chemistry, 2021, 60, 12526-12535.	4.0	2