

Guoqiang Zou

List of Publications by Year in descending order

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101
papers

7,302
citations

38660

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56606

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docs citations

105
times ranked

5958
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical bismuth composite for fast lithium storage: Carbon dots tuned interfacial interaction. <i>Energy Storage Materials</i> , 2022, 44, 145-155.	9.5	35
2	Recent advances of composite electrolytes for solid-state Li batteries. <i>Journal of Energy Chemistry</i> , 2022, 67, 524-548.	7.1	47
3	Zintl chemistry: Current status and future perspectives. <i>Chemical Engineering Journal</i> , 2022, 433, 133841.	6.6	11
4	High-throughput Production of Cheap Mineral-Based Heterostructures for High Power Sodium Ion Capacitors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	75
5	Atomical Reconstruction and Cationic Reordering for Nickel-Rich Layered Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	67
6	Ultra-Low-Dose Pre-Metallation Strategy Served for Commercial Metal-Ion Capacitors. <i>Nano-Micro Letters</i> , 2022, 14, 53.	14.4	65
7	Chemical-Mechanical Effects in Ni-Rich Cathode Materials. <i>Chemistry of Materials</i> , 2022, 34, 1509-1523.	3.2	34
8	Enabling the sustainable recycling of LiFePO_4 from spent lithium-ion batteries. <i>Green Chemistry</i> , 2022, 24, 2506-2515.	4.6	68
9	Electrochemical Zintl Cluster Bi_2Te_3 induced chemically bonded bismuth / graphene oxide composite for sodium-ion batteries. <i>Electrochimica Acta</i> , 2022, 413, 140174.	2.6	4
10	Advanced Pre-Diagnosis Method of Biomass Intermediates Toward High Energy Dual-Carbon Potassium-Ion Capacitor. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	76
11	Carbon Dots-Regulated Pomegranate-Like Metal Oxide Composites: From Growth Mechanism to Lithium Storage. <i>Small Methods</i> , 2022, 6, e2200245.	4.6	5
12	Bi-doped carbon dots for a stable lithium metal anode. <i>Chemical Communications</i> , 2022, 58, 6449-6452.	2.2	10
13	High-Yield Carbon Dots Interlayer for Ultra-Stable Zinc Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	90
14	Mitigating the Jahn-Teller distortion driven by the spin-orbit coupling of lithium manganate cathode. <i>Journal of Energy Chemistry</i> , 2022, 72, 379-387.	7.1	11
15	Enabling Reversible Reaction by Uniform Distribution of Heterogeneous Intermediates on Defect-Rich SnSSe/C Layered Heterostructure for Ultralong-Cycling Sodium Storage. <i>Small</i> , 2022, 18, .	5.2	14
16	Trace tea polyphenols enabling reversible dendrite-free zinc anode. <i>Journal of Colloid and Interface Science</i> , 2022, 624, 450-459.	5.0	18
17	Bi Dots Confined by Functional Carbon as High-Performance Anode for Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2000756.	7.8	84
18	Garnet Solid Electrolyte for Advanced All-Solid-State Li Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2000648.	10.2	182

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19	Electrochemically intercalated intermediate induced exfoliation of few-layer MoS ₂ from molybdenite for long-life sodium storage. <i>Science China Materials</i> , 2021, 64, 115-127.	3.5	22
20	Highly stable zinc metal anode enabled by oxygen functional groups for advanced Zn-ion supercapacitors. <i>Chemical Communications</i> , 2021, 57, 528-531.	2.2	29
21	Advanced Carbon Materials for Sodium-Ion Capacitors. <i>Batteries and Supercaps</i> , 2021, 4, 538-553.	2.4	27
22	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.	3.2	38
23	Preolithiation/Presodiation Techniques for Advanced Electrochemical Energy Storage Systems: Concepts, Applications, and Perspectives. <i>Advanced Functional Materials</i> , 2021, 31, 2005581.	7.8	138
24	Interfacial regulation of dendrite-free zinc anodes through a dynamic hydrophobic molecular membrane. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14265-14269.	5.2	10
25	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.	5.2	60
26	Electrochemically captured Zintl cluster-induced bismuthene for sodium-ion storage. <i>Chemical Communications</i> , 2021, 57, 2396-2399.	2.2	13
27	Liquid Alloy Interlayer for Aqueous Zinc-Ion Battery. <i>ACS Energy Letters</i> , 2021, 6, 675-683.	8.8	135
28	Comprehensive Understanding of Sodium-Ion Capacitors: Definition, Mechanisms, Configurations, Materials, Key Technologies, and Future Developments. <i>Advanced Energy Materials</i> , 2021, 11, 2003804.	10.2	105
29	Kilogram-Scale Synthesis and Functionalization of Carbon Dots for Superior Electrochemical Potassium Storage. <i>ACS Nano</i> , 2021, 15, 6872-6885.	7.3	184
30	Demystifying the Lattice Oxygen Redox in Layered Oxide Cathode Materials of Lithium-Ion Batteries. <i>ACS Nano</i> , 2021, 15, 6061-6104.	7.3	77
31	Functionalized carbon dots for advanced batteries. <i>Energy Storage Materials</i> , 2021, 37, 8-39.	9.5	116
32	Fundamental and solutions of microcrack in Ni-rich layered oxide cathode materials of lithium-ion batteries. <i>Nano Energy</i> , 2021, 83, 105854.	8.2	264
33	Heterogeneous Interface Design for Enhanced Sodium Storage: Sb Quantum Dots Confined by Functional Carbon. <i>Small Methods</i> , 2021, 5, e2100188.	4.6	17
34	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.	7.8	81
35	Molecularly Compensated Pre-Metallation Strategy for Metal-Ion Batteries and Capacitors. <i>Angewandte Chemie</i> , 2021, 133, 17207-17216.	1.6	4
36	Molecularly Compensated Pre-Metallation Strategy for Metal-Ion Batteries and Capacitors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17070-17079.	7.2	52

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37	Structure and Interface Modification of Carbon Dots for Electrochemical Energy Application. <i>Small</i> , 2021, 17, e2102091.	5.2	36
38	Solid Solution Metal Chalcogenides for Sodium-Ion Batteries: The Recent Advances as Anodes. <i>Small</i> , 2021, 17, e2101058.	5.2	45
39	Electrochemically Engineering Antimony Interspersed on Graphene toward Advanced Sodium-Storage Anodes. <i>Inorganic Chemistry</i> , 2021, 60, 12526-12535.	1.9	2
40	Iron-Based Layered Cathodes for Sodium-Ion Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1657-1679.	2.4	19
41	Carbon Dots Evoked Li Ion Dynamics for Solid State Battery. <i>Small</i> , 2021, 17, e2102978.	5.2	54
42	Highly efficient re-cycle/generation of LiCoO ₂ cathode assisted by 2-naphthalenesulfonic acid. <i>Journal of Hazardous Materials</i> , 2021, 416, 126114.	6.5	16
43	Interfacially Redistributed charge for robust lithium metal anode. <i>Nano Energy</i> , 2021, 87, 106212.	8.2	48
44	Presodiation Strategies for the Promotion of Sodium-Based Energy Storage Systems. <i>Chemistry - A European Journal</i> , 2021, 27, 16082-16092.	1.7	15
45	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.	7.1	33
46	Functional carbon materials processed by NH ₃ plasma for advanced full-carbon sodium-ion capacitors. <i>Chemical Engineering Journal</i> , 2021, 420, 129647.	6.6	32
47	Liquid Alloying Na-K for Sodium Metal Anodes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9321-9327.	2.1	9
48	Element substitution of a spinel LiMn ₂ O ₄ cathode. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21532-21550.	5.2	51
49	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.	5.2	28
50	MnO ₂ Nanowires Anchored with Graphene Quantum Dots for Stable Aqueous Zinc-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 10940-10947.	2.5	17
51	Coupling regeneration strategy of lithium-ion electrode materials turned with naphthalenedisulfonic acid. <i>Waste Management</i> , 2021, 136, 1-10.	3.7	3
52	Electronic Effect and Regiochemistry of Substitution in Pre-sodiation Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11968-11979.	2.1	7
53	H ⁺ Insertion Boosted Li^+MnO_2 for an Aqueous Zn-Ion Battery. <i>Small</i> , 2020, 16, e1905842.	5.2	260
54	Graphitic Carbon Quantum Dots Modified Nickel Cobalt Sulfide as Cathode Materials for Alkaline Aqueous Batteries. <i>Nano-Micro Letters</i> , 2020, 12, 16.	14.4	114

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55	Recent progress on electrolyte additives for stable lithium metal anode. <i>Energy Storage Materials</i> , 2020, 32, 306-319.	9.5	126
56	Advanced Battery-Type Anode Materials for High-Performance Sodium-Ion Capacitors. <i>Small Methods</i> , 2020, 4, 2000401.	4.6	56
57	Pseudo-Bonding and Electric-Field Harmony for Li-Rich Mn-Based Oxide Cathode. <i>Advanced Functional Materials</i> , 2020, 30, 2004302.	7.8	149
58	Bi-Based Electrode Materials for Alkali Metal-Ion Batteries. <i>Small</i> , 2020, 16, e2004022.	5.2	71
59	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.	14.4	111
60	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.	4.0	58
61	Defect Rich Hierarchical Porous Carbon for High Power Supercapacitors. <i>Frontiers in Chemistry</i> , 2020, 8, 43.	1.8	27
62	Manganese-based layered oxide cathodes for sodium ion batteries. <i>Nano Select</i> , 2020, 1, 200-225.	1.9	25
63	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.	1.3	34
64	Voltage-Induced High-Efficient In Situ Presodiation Strategy for Sodium Ion Capacitors. <i>Small Methods</i> , 2020, 4, 1900763.	4.6	60
65	Quinone/ester-based oxygen functional group-incorporated full carbon Li-ion capacitor for enhanced performance. <i>Nanoscale</i> , 2020, 12, 3677-3685.	2.8	64
66	Phase-Controllable Cobalt Phosphides Induced through Hydrogel for Higher Lithium Storages. <i>Inorganic Chemistry</i> , 2020, 59, 6471-6480.	1.9	4
67	Hierarchical NiS ₂ Modified with Bifunctional Carbon for Enhanced Potassium-Ion Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1903454.	7.8	109
68	Chemical Bonding and Physical Trapping Se Electrode for Long-Life Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1809014.	7.8	36
69	Composition Engineering Boosts Voltage Windows for Advanced Sodium-Ion Batteries. <i>ACS Nano</i> , 2019, 13, 10787-10797.	7.3	90
70	Li ₄ Ti ₅ O ₁₂ quantum dot decorated carbon frameworks from carbon dots for fast lithium ion storage. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1761-1767.	3.2	18
71	A kinetically well-matched full-carbon sodium-ion capacitor. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13540-13549.	5.2	116
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.	1.9	26

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73	Electrochemically Modulated $\text{LiNi}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$ Cathodes for Lithium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1900065.	4.6	24
74	Surface-Driven Energy Storage Behavior of Dual-Heteroatoms Functionalized Carbon Material. <i>Advanced Functional Materials</i> , 2019, 29, 1900941.	7.8	68
75	General Synthesis of Heteroatom-Doped Hierarchical Carbon toward Excellent Electrochemical Energy Storage. <i>Batteries and Supercaps</i> , 2019, 2, 712-722.	2.4	27
76	The bond evolution mechanism of covalent sulfurized carbon during electrochemical sodium storage process. <i>Science China Materials</i> , 2019, 62, 1127-1138.	3.5	58
77	Rod-Like Sb_2MoO_6 : Structure Evolution and Sodium Storage for Sodium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1800533.	4.6	26
78	Single Particle Electrochemistry of Collision. <i>Small</i> , 2019, 15, e1804908.	5.2	33
79	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.	4.0	132
80	Monocrystal $\text{Cu}_3\text{Mo}_2\text{O}_9$ Confined in Polyaniline Protective Layer: an Effective Strategy for Promoting Lithium Storage Stability. <i>ChemElectroChem</i> , 2019, 6, 1688-1695.	1.7	12
81	Hierarchical Hollow-Microsphere Metal-Selenide@Carbon Composites with Rational Surface Engineering for Advanced Sodium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1803035.	10.2	234
82	Ultrafast Sodium Full Batteries Derived from X_2Fe (X = Co, Ni, Mn) Prussian Blue Analogs. <i>Advanced Materials</i> , 2019, 31, e1806092.	11.1	132
83	Controllable Chain-Length for Covalent Sulfur-Carbon Materials Enabling Stable and High-Capacity Sodium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1803478.	10.2	145
84	Electrochemically Exfoliated Phosphorene-Graphene Hybrid for Sodium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1800328.	4.6	66
85	Electrochemical exfoliation of graphene-like two-dimensional nanomaterials. <i>Nanoscale</i> , 2019, 11, 16-33.	2.8	184
86	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.	5.2	84
87	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.	7.8	42
88	Perovskite ABO_3 -Type MOF-Derived Carbon Decorated Fe_3O_4 with Enhanced Lithium Storage Performance. <i>ChemElectroChem</i> , 2018, 5, 3426-3436.	1.7	9
89	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.	5.2	27
90	Advanced Hierarchical Vesicular Carbon Co-Doped with S, P, N for High-Rate Sodium Storage. <i>Advanced Science</i> , 2018, 5, 1800241.	5.6	225

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91	Energy Storage: Largeâ€Area Carbon Nanosheets Doped with Phosphorus: A Highâ€Performance Anode Material for Sodiumâ€Ion Batteries (Adv. Sci. 1/2017). Advanced Science, 2017, 4, .	5.6	3
92	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.	1.4	12
93	3D hollow porous carbon microspheres derived from Mn-MOFs and their electrochemical behavior for sodium storage. Journal of Materials Chemistry A, 2017, 5, 23550-23558.	5.2	69
94	Preparation of S/N-codoped carbon nanosheets with tunable interlayer distance for high-rate sodium-ion batteries. Green Chemistry, 2017, 19, 4622-4632.	4.6	81
95	Controllable Interlayer Spacing of Sulfurâ€Doped Graphitic Carbon Nanosheets for Fast Sodiumâ€Ion Batteries. Small, 2017, 13, 1700762.	5.2	144
96	Nitrogen Doped/Carbon Tuning Yolkâ€Like TiO₂ and Its Remarkable Impact on Sodium Storage Performances. Advanced Energy Materials, 2017, 7, 1600173.	10.2	159
97	Largeâ€Area Carbon Nanosheets Doped with Phosphorus: A Highâ€Performance Anode Material for Sodiumâ€Ion Batteries. Advanced Science, 2017, 4, 1600243.	5.6	450
98	Black Anatase Titania with Ultrafast Sodium-Storage Performances Stimulated by Oxygen Vacancies. ACS Applied Materials & Interfaces, 2016, 8, 9142-9151.	4.0	193
99	Grapheneâ€Rich Wrapped Petalâ€Like Rutile TiO₂ tuned by Carbon Dots for Highâ€Performance Sodium Storage. Advanced Materials, 2016, 28, 9391-9399.	11.1	262
100	Sizeâ€Tunable Oliveâ€Like Anatase TiO₂ Coated with Carbon as Superior Anode for Sodiumâ€Ion Batteries. Small, 2016, 12, 5554-5563.	5.2	76
101	Pinecone-like hierarchical anatase TiO₂ bonded with carbon enabling ultrahigh cycling rates for sodium storage. Journal of Materials Chemistry A, 2016, 4, 12591-12601.	5.2	78