

# Guoqiang Zou

## List of Publications by Year in descending order

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101  
papers

7,302  
citations

38660

50  
h-index

56606

83  
g-index

105  
all docs

105  
docs citations

105  
times ranked

5958  
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.	5.6	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.	8.2	264
3	Graphene-Rich Wrapped Petal-Like Rutile TiO <sub>2</sub> tuned by Carbon Dots for High-Performance Sodium Storage. <i>Advanced Materials</i> , 2016, 28, 9391-9399.	11.1	262
4	H <sup>+</sup> -Insertion Boosted Li <sup>+</sup> -MnO <sub>2</sub> for an Aqueous Zn-Ion Battery. <i>Small</i> , 2020, 16, e1905842.	5.2	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.	10.2	234
6	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
7	Black Anatase Titania with Ultrafast Sodium-Storage Performances Stimulated by Oxygen Vacancies. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 9142-9151.	4.0	193
8	Electrochemical exfoliation of graphene-like two-dimensional nanomaterials. <i>Nanoscale</i> , 2019, 11, 16-33.	2.8	184
9	Kilogram-Scale Synthesis and Functionalization of Carbon Dots for Superior Electrochemical Potassium Storage. <i>ACS Nano</i> , 2021, 15, 6872-6885.	7.3	184
10	Garnet Solid Electrolyte for Advanced All-Solid-State Li Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2000648.	10.2	182
11	Nitrogen Doped/Carbon Tuning Yolk-Like TiO <sub>2</sub> and Its Remarkable Impact on Sodium Storage Performances. <i>Advanced Energy Materials</i> , 2017, 7, 1600173.	10.2	159
12	Pseudo-Bonding and Electric-Field Harmony for Li-Rich Mn-Based Oxide Cathode. <i>Advanced Functional Materials</i> , 2020, 30, 2004302.	7.8	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.	10.2	145
14	Controllable Interlayer Spacing of Sulfur-Doped Graphitic Carbon Nanosheets for Fast Sodium-Ion Batteries. <i>Small</i> , 2017, 13, 1700762.	5.2	144
15	Prelithiation/Presodiation Techniques for Advanced Electrochemical Energy Storage Systems: Concepts, Applications, and Perspectives. <i>Advanced Functional Materials</i> , 2021, 31, 2005581.	7.8	138
16	Liquid Alloy Interlayer for Aqueous Zinc-Ion Battery. <i>ACS Energy Letters</i> , 2021, 6, 675-683.	8.8	135
17	Yolk-Shell-Structured Bismuth@N-Doped Carbon Anode for Lithium-Ion Battery with High Volumetric Capacity. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 10829-10840.	4.0	132
18	Ultrafast Sodium Full Batteries Derived from Xi <sub>2</sub> Fe (X = Co, Ni, Mn) Prussian Blue Analogs. <i>Advanced Materials</i> , 2019, 31, e1806092.	11.1	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.	9.5	126
20	A kinetically well-matched full-carbon sodium-ion capacitor. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13540-13549.	5.2	116
21	Functionalized carbon dots for advanced batteries. <i>Energy Storage Materials</i> , 2021, 37, 8-39.	9.5	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.	14.4	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.	14.4	111
24	Hierarchical NiS <sub>2</sub> Modified with Bifunctional Carbon for Enhanced Potassium-Ion Storage. <i>Advanced Functional Materials</i> , 2019, 29, 1903454.	7.8	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.	10.2	105
26	Composition Engineering Boosts Voltage Windows for Advanced Sodium-Ion Batteries. <i>ACS Nano</i> , 2019, 13, 10787-10797.	7.3	90
27	High-Yield Carbon Dots Interlayer for Ultra-Stable Zinc Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	90
28	N-rich carbon coated CoSnO <sub>3</sub> 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
29	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
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.	4.6	81
31	Stabilizing Intermediate Phases via Efficient Entrapment Effects of Layered VS <sub>4</sub> /SnS@C Heterostructure for Ultralong Lifespan Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2103802.	7.8	81
32	Pinecone-like hierarchical anatase TiO <sub>2</sub> bonded with carbon enabling ultrahigh cycling rates for sodium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12591-12601.	5.2	78
33	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
34	Size-Tunable Olive-Like Anatase TiO <sub>2</sub> Coated with Carbon as Superior Anode for Sodium-Ion Batteries. <i>Small</i> , 2016, 12, 5554-5563.	5.2	76
35	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
36	High-Throughput Production of Cheap Mineral-Based Heterostructures for High Power Sodium Ion Capacitors. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	75

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37	Bi-Based Electrode Materials for Alkali Metal-Ion Batteries. <i>Small</i> , 2020, 16, e2004022.	5.2	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.	5.2	69
39	Surface-Driven Energy Storage Behavior of Dual-Heteroatoms Functionalized Carbon Material. <i>Advanced Functional Materials</i> , 2019, 29, 1900941.	7.8	68
40	Enabling the sustainable recycling of $\text{LiFePO}_4$ from spent lithium-ion batteries. <i>Green Chemistry</i> , 2022, 24, 2506-2515.	4.6	68
41	Atomical Reconstruction and Cationic Reordering for Nickel-Rich Layered Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	67
42	Electrochemically Exfoliated Phosphorene-Graphene Hybrid for Sodium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1800328.	4.6	66
43	Ultra-Low-Dose Pre-Metallation Strategy Served for Commercial Metal-Ion Capacitors. <i>Nano-Micro Letters</i> , 2022, 14, 53.	14.4	65
44	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
45	Voltage-Induced High-Efficient In Situ Presodiation Strategy for Sodium Ion Capacitors. <i>Small Methods</i> , 2020, 4, 1900763.	4.6	60
46	Olivine $\text{LiMn}_x\text{Fe}_{1-x}\text{PO}_4$ 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
47	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
48	High Sulfur-Doped Hard Carbon with Advanced Potassium Storage Capacity via a Molten Salt Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 30431-30437.	4.0	58
49	Advanced Battery-Type Anode Materials for High-Performance Sodium-Ion Capacitors. <i>Small Methods</i> , 2020, 4, 2000401.	4.6	56
50	Carbon Dots Evoked Li Ion Dynamics for Solid State Battery. <i>Small</i> , 2021, 17, e2102978.	5.2	54
51	Molecularly Compensated Pre-Metallation Strategy for Metal-Ion Batteries and Capacitors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17070-17079.	7.2	52
52	Element substitution of a spinel $\text{LiMn}_2\text{O}_4$ cathode. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21532-21550.	5.2	51
53	Interfacially Redistributed charge for robust lithium metal anode. <i>Nano Energy</i> , 2021, 87, 106212.	8.2	48
54	Recent advances of composite electrolytes for solid-state Li batteries. <i>Journal of Energy Chemistry</i> , 2022, 67, 524-548.	7.1	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.	5.2	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.	7.8	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.	3.2	38
58	Chemical Bonding and Physical Trapping Se Electrode for Long-Life Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1809014.	7.8	36
59	Structure and Interface Modification of Carbon Dots for Electrochemical Energy Application. <i>Small</i> , 2021, 17, e2102091.	5.2	36
60	Hierarchical bismuth composite for fast lithium storage: Carbon dots tuned interfacial interaction. <i>Energy Storage Materials</i> , 2022, 44, 145-155.	9.5	35
61	Nitrogen-doped Carbon Coated Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> with Superior Sodium Storage Capability. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 459-466.	1.3	34
62	Chemical-Mechanical Effects in Ni-Rich Cathode Materials. <i>Chemistry of Materials</i> , 2022, 34, 1509-1523.	3.2	34
63	Single Particle Electrochemistry of Collision. <i>Small</i> , 2019, 15, e1804908.	5.2	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.	7.1	33
65	Functional carbon materials processed by NH <sub>3</sub> plasma for advanced full-carbon sodium-ion capacitors. <i>Chemical Engineering Journal</i> , 2021, 420, 129647.	6.6	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.	2.2	29
67	A high-rate capability LiFePO <sub>4</sub> /C cathode achieved by the modulation of the band structures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24686-24694.	5.2	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.	5.2	27
69	General Synthesis of Heteroatom-Doped Hierarchical Carbon toward Excellent Electrochemical Energy Storage. <i>Batteries and Supercaps</i> , 2019, 2, 712-722.	2.4	27
70	Defect Rich Hierarchical Porous Carbon for High Power Supercapacitors. <i>Frontiers in Chemistry</i> , 2020, 8, 43.	1.8	27
71	Advanced Carbon Materials for Sodium-Ion Capacitors. <i>Batteries and Supercaps</i> , 2021, 4, 538-553.	2.4	27
72	Bi <sub>2</sub> MoO <sub>6</sub> 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	Rod-like $\text{Sb}_2\text{Mo}_6$ : Structure Evolution and Sodium Storage for Sodium-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1800533.	4.6	26
74	Manganese-based layered oxide cathodes for sodium ion batteries. <i>Nano Select</i> , 2020, 1, 200-225.	1.9	25
75	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
76	Electrochemically intercalated intermediate induced exfoliation of few-layer $\text{MoS}_2$ from molybdenite for long-life sodium storage. <i>Science China Materials</i> , 2021, 64, 115-127.	3.5	22
77	Iron-Based Layered Cathodes for Sodium-Ion Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 1657-1679.	2.4	19
78	$\text{Li}_4\text{Ti}_5\text{O}_{12}$ 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
79	Trace tea polyphenols enabling reversible dendrite-free zinc anode. <i>Journal of Colloid and Interface Science</i> , 2022, 624, 450-459.	5.0	18
80	Heterogeneous Interface Design for Enhanced Sodium Storage: Sb Quantum Dots Confined by Functional Carbon. <i>Small Methods</i> , 2021, 5, e2100188.	4.6	17
81	$\text{MnO}_2$ 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
82	Highly efficient re-cycle/generation of $\text{LiCoO}_2$ cathode assisted by 2-naphthalenesulfonic acid. <i>Journal of Hazardous Materials</i> , 2021, 416, 126114.	6.5	16
83	Presodiation Strategies for the Promotion of Sodium-Based Energy Storage Systems. <i>Chemistry - A European Journal</i> , 2021, 27, 16082-16092.	1.7	15
84	Enabling Reversible Reaction by Uniform Distribution of Heterogeneous Intermediates on Defect-Rich $\text{SnSSe/C}$ Layered Heterostructure for Ultralong-Cycling Sodium Storage. <i>Small</i> , 2022, 18, .	5.2	14
85	Electrochemically captured Zintl cluster-induced bismuthene for sodium-ion storage. <i>Chemical Communications</i> , 2021, 57, 2396-2399.	2.2	13
86	Synergistic effect of cross-linked carbon nanosheet frameworks and Sb on the enhancement of sodium storage performances. <i>New Journal of Chemistry</i> , 2017, 41, 13724-13731.	1.4	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. <i>ChemElectroChem</i> , 2019, 6, 1688-1695.	1.7	12
88	Zintl chemistry: Current status and future perspectives. <i>Chemical Engineering Journal</i> , 2022, 433, 133841.	6.6	11
89	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
90	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

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91	Bi-doped carbon dots for a stable lithium metal anode. <i>Chemical Communications</i> , 2022, 58, 6449-6452.	2.2	10
92	Perovskite ABO <sub>3</sub> -Type MOF-Derived Carbon Decorated Fe <sub>3</sub> O <sub>4</sub> with Enhanced Lithium Storage Performance. <i>ChemElectroChem</i> , 2018, 5, 3426-3436.	1.7	9
93	Liquid Alloying Na-K for Sodium Metal Anodes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9321-9327.	2.1	9
94	Electronic Effect and Regiochemistry of Substitution in Pre-sodiation Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11968-11979.	2.1	7
95	Carbon Dots-Regulated Pomegranate-Like Metal Oxide Composites: From Growth Mechanism to Lithium Storage. <i>Small Methods</i> , 2022, 6, e2200245.	4.6	5
96	Phase-Controllable Cobalt Phosphides Induced through Hydrogel for Higher Lithium Storages. <i>Inorganic Chemistry</i> , 2020, 59, 6471-6480.	1.9	4
97	Molecularly Compensated Pre-Metallation Strategy for Metal-Ion Batteries and Capacitors. <i>Angewandte Chemie</i> , 2021, 133, 17207-17216.	1.6	4
98	Electrochemical Zintl Cluster Bi <sub>22</sub> ' induced chemically bonded bismuth / graphene oxide composite for sodium-ion batteries. <i>Electrochimica Acta</i> , 2022, 413, 140174.	2.6	4
99	Energy Storage: Large-Area Carbon Nanosheets Doped with Phosphorus: A High-Performance Anode Material for Sodium-Ion Batteries ( <i>Adv. Sci.</i> 1/2017). <i>Advanced Science</i> , 2017, 4, .	5.6	3
100	Coupling regeneration strategy of lithium-ion electrode materials turned with naphthalenedisulfonic acid. <i>Waste Management</i> , 2021, 136, 1-10.	3.7	3
101	Electrochemically Engineering Antimony Interspersed on Graphene toward Advanced Sodium-Storage Anodes. <i>Inorganic Chemistry</i> , 2021, 60, 12526-12535.	1.9	2