Nâ€Doping and Defective Nanographitic Domain Coup Performance Lithium/Sodium Storage

Advanced Functional Materials 28, 1706294 DOI: 10.1002/adfm.201706294

Citation Report

#	Article	IF	CITATIONS
1	One-pot synthesis of CoFe ₂ O ₄ /rGO hybrid hydrogels with 3D networks for high capacity electrochemical energy storage devices. RSC Advances, 2018, 8, 8607-8614.	1.7	52
2	Si@void@C Nanofibers Fabricated Using a Self-Powered Electrospinning System for Lithium-Ion Batteries. ACS Nano, 2018, 12, 4835-4843.	7.3	115
3	A core/shell structured tubular graphene nanoflake-coated polypyrrole hybrid for all-solid-state flexible supercapacitors. Journal of Materials Chemistry A, 2018, 6, 3913-3918.	5.2	87
4	Tailoring Hollow Nanostructures by Catalytic Strategy for Superior Lithium and Sodium Storage. ACS Applied Materials & Interfaces, 2018, 10, 43953-43961.	4.0	8
5	Marriage of an Ether-Based Electrolyte with Hard Carbon Anodes Creates Superior Sodium-Ion Batteries with High Mass Loading. ACS Applied Materials & Interfaces, 2018, 10, 41380-41388.	4.0	76
6	Nitrogen and Phosphorus Codoped Porous Carbon Framework as Anode Material for High Rate Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2018, 10, 36969-36975.	4.0	58
7	Polymer-Promoted Synthesis of Porous TiO ₂ Nanofibers Decorated with N-Doped Carbon by Mechanical Stirring for High-Performance Li-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 35060-35068.	4.0	17
8	Fabrication of Microporous Sulfur-Doped Carbon Microtubes for High-Performance Sodium-Ion Batteries. ACS Applied Energy Materials, 2018, 1, 6638-6645.	2.5	84
9	CoSe ₂ Nanoparticles Encapsulated by Nâ€Doped Carbon Framework Intertwined with Carbon Nanotubes: Highâ€Performance Dualâ€Role Anode Materials for Both Li―and Naâ€I•on Batteries. Advanced Science, 2018, 5, 1800763.	5.6	215
10	Activated Amorphous Carbon With High-Porosity Derived From Camellia Pollen Grains as Anode Materials for Lithium/Sodium Ion Batteries. Frontiers in Chemistry, 2018, 6, 366.	1.8	47
11	Rational Design and General Synthesis of Sâ€Doped Hard Carbon with Tunable Doping Sites toward Excellent Naâ€Ion Storage Performance. Advanced Materials, 2018, 30, e1802035.	11.1	239
12	Tunable porous carbon spheres for high-performance rechargeable batteries. Journal of Materials Chemistry A, 2018, 6, 12816-12841.	5.2	82
13	Manganese Dioxide/Ant-Nest-Like Hierarchical Porous Carbon Composite with Robust Supercapacitive Performances. ACS Sustainable Chemistry and Engineering, 2018, 6, 7362-7371.	3.2	17
14	Sb Nanoparticles Embedded in a Nitrogenâ€Doped Carbon Matrix with Tuned Voids and Interfacial Bonds for Highâ€Rate Lithium Storage. ChemElectroChem, 2018, 5, 2653-2659.	1.7	15
15	Co9S8/Mo2S3 nanorods on CoS2 laminar arrays as advanced electrode with superior rate properties and long cycle life for asymmetric supercapacitors. Chemical Engineering Journal, 2018, 351, 603-612.	6.6	35
16	Designing nanographitic domains in N-doped porous carbon foam for high performance supercapacitors. Carbon, 2018, 139, 1152-1159.	5.4	60
17	Facile synthesis of 2D nitrogen-containing porous carbon nanosheets induced by graphene oxide for high-performance supercapacitors. Sustainable Energy and Fuels, 2018, 2, 2494-2501.	2.5	6
18	Surface modification of biomass-derived hard carbon by grafting porous carbon nanosheets for high-performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 15954-15960.	5.2	216

#	Article	IF	CITATIONS
19	Nitrogen-Enriched Hollow Porous Carbon Nanospheres with Tailored Morphology and Microstructure for All-Solid-State Symmetric Supercapacitors. ACS Applied Energy Materials, 2018, 1, 4293-4303.	2.5	72
20	Enhancing Ultrafast Lithium Ion Storage of Li ₄ Ti ₅ O ₁₂ by Tailored TiC/C Core/Shell Skeleton Plus Nitrogen Doping. Advanced Functional Materials, 2018, 28, 1802756.	7.8	145
21	Controllably Enriched Oxygen Vacancies through Polymer Assistance in Titanium Pyrophosphate as a Super Anode for Na/K-Ion Batteries. ACS Nano, 2019, 13, 9227-9236.	7.3	94
22	Carbon Nitride Transforms into a High Lithium Storage Capacity Nitrogen-Rich Carbon. ACS Nano, 2019, 13, 9279-9291.	7.3	58
23	Selfâ€5upporting, Flexible, Additiveâ€Free, and Scalable Hard Carbon Paper Selfâ€Interwoven by 1D Microbelts: Superb Room/Lowâ€Temperature Sodium Storage and Working Mechanism. Advanced Materials, 2019, 31, e1903125.	11.1	184
24	N, P dual-doped carbon nanotube with superior high-rate sodium storage performance for sodium ion batteries. Journal of Electroanalytical Chemistry, 2019, 850, 113392.	1.9	26
25	Nitrogen/sulfur co-doped disordered porous biocarbon as high performance anode materials of lithium/sodium ion batteries. International Journal of Hydrogen Energy, 2019, 44, 22250-22262.	3.8	33
26	Engineering the trap effect of residual oxygen atoms and defects in hard carbon anode towards high initial Coulombic efficiency. Nano Energy, 2019, 64, 103937.	8.2	118
27	In Situ Revealing the Electroactivity of PO and PC Bonds in Hard Carbon for Highâ€Capacity and Longâ€Life Li/Kâ€lon Batteries. Advanced Energy Materials, 2019, 9, 1901676.	10.2	202
28	Manipulation of 2D carbon nanoplates with a core–shell structure for high-performance potassium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 19929-19938.	5.2	44
29	Influence of P doping on Na and K storage properties of N-rich carbon nanosheets. Materials Chemistry and Physics, 2019, 236, 121809.	2.0	10
30	Separated Tellurium Nanoparticles Confined in Hollow Polypyrrole for High Performance Liâ€Te Cathode. ChemistrySelect, 2019, 4, 9737-9742.	0.7	11
31	A facile strategy to prepare (N, Ni, P) tri-doped echinus-like porous carbon spheres as advanced anode for lithium ion batteries. Nanotechnology, 2019, 30, 495403.	1.3	5
32	Encapsulating Red Phosphorus in Ultralarge Pore Volume Hierarchical Porous Carbon Nanospheres for Lithium/Sodium-Ion Half/Full Batteries. ACS Nano, 2019, 13, 13513-13523.	7.3	77
33	Regulating Pore Structure of Hierarchical Porous Waste Corkâ€Derived Hard Carbon Anode for Enhanced Na Storage Performance. Advanced Energy Materials, 2019, 9, 1902852.	10.2	212
34	Hierarchically Organized Ultrathin NiO Nanofibers/Highly Defectiveâ€rGO Heteronanocomposite: An Advanced Electrode Material for Asymmetric Supercapacitors. Advanced Materials Interfaces, 2019, 6, 1900889.	1.9	35
35	Physical Forces Inducing Thin Amorphous Carbon Nanotubes Derived from Polymer Nanotube/SiO ₂ Hybrids with Superior Rate Capability for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 36985-36990.	4.0	20
36	A multidimensional and hierarchical carbon-confined cobalt phosphide nanocomposite as an advanced anode for lithium and sodium storage. Nanoscale, 2019, 11, 968-985.	2.8	50

#	Article	IF	CITATIONS
37	Synergistic design of aÂN, O co-doped honeycomb carbon electrode and an ionogel electrolyte enabling all-solid-state supercapacitors with an ultrahigh energy density. Journal of Materials Chemistry A, 2019, 7, 816-826.	5.2	134
38	A hybrid energy storage mechanism of carbonous anodes harvesting superior rate capability and long cycle life for sodium/potassium storage. Journal of Materials Chemistry A, 2019, 7, 3673-3681.	5.2	70
39	Modulating the Interlayer Spacing and Na ⁺ /Vacancy Disordering of P2-Na _{0.67} MnO ₂ for Fast Diffusion and High-Rate Sodium Storage. ACS Applied Materials & Interfaces, 2019, 11, 6978-6985.	4.0	69
40	Designed formation of nitrogen and sulfur dual-doped hierarchically porous carbon for long-life lithium and sodium ion batteries. Chemical Engineering Journal, 2019, 364, 208-216.	6.6	73
41	Metal Sulfides@Carbon Microfiber Networks for Boosting Lithium Ion/Sodium Ion Storage via a General Metal– <i>Aspergillus niger</i> Bioleaching Strategy. ACS Applied Materials & Interfaces, 2019, 11, 8072-8080.	4.0	58
42	A 3D flower-like VO ₂ /MXene hybrid architecture with superior anode performance for sodium ion batteries. Journal of Materials Chemistry A, 2019, 7, 1315-1322.	5.2	112
43	Extended lattice space of TiO2 hollow nanocubes for improved sodium storage. Chemical Engineering Journal, 2019, 373, 565-571.	6.6	25
44	High-Performance Sodium-Ion Capacitor Constructed by Well-Matched Dual-Carbon Electrodes from a Single Biomass. ACS Sustainable Chemistry and Engineering, 0, , .	3.2	14
45	Porous N-doped carbon nanostructure integrated with mesh current collector for Li-ion based energy storage. Chemical Engineering Journal, 2019, 374, 201-210.	6.6	24
46	Long cycle life, low self-discharge carbon anode for Li-ion batteries with pores and dual-doping. Journal of Alloys and Compounds, 2019, 802, 620-627.	2.8	21
47	Co9S8 confined in bifunctional N/S co-doped carbon/carbon with high electrochemical performance for lithium-ion batteries. Applied Surface Science, 2019, 489, 528-537.	3.1	50
48	Engineered Changes in Structure and Component from Solid NiS 2 /Reduced Graphene Oxide to Hollow Niâ€P/Reduced Graphene Oxide and the Enhanced Performance for Lithiumâ€ŀon Batteries. Energy Technology, 2019, 7, 1900342.	1.8	3
49	Nb5+-doped P2-type Mn-based layered oxide cathode with an excellent high-rate cycling stability for sodium-ion batteries. Ionics, 2019, 25, 4775-4786.	1.2	17
50	A nanosized SnSb alloy confined in N-doped 3D porous carbon coupled with ether-based electrolytes toward high-performance potassium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 14309-14318.	5.2	157
51	Honeycomb-like Porous Carbon with Nanographitic Domains, Supported on Graphene Layers: Applicability for Lithium/Sodium Storage. ACS Sustainable Chemistry and Engineering, 2019, 7, 10986-10994.	3.2	23
52	Effective synthetic strategy for Zn _{0.76} Co _{0.24} S encapsulated in stabilized N-doped carbon nanoarchitecture towards ultra-long-life hybrid supercapacitors. Journal of Materials Chemistry A, 2019, 7, 14670-14680.	5.2	59
53	Rational Design of Carbon Nanomaterials for Electrochemical Sodium Storage and Capture. Advanced Materials, 2019, 31, e1803444.	11.1	103
54	Porous carbon nanospheres with moderately oriented domains for EDLC electrode. Journal of the Chinese Chemical Society, 2019, 66, 1499-1506.	0.8	3

#	Article	IF	CITATIONS
55	Fe-alginate biomass-derived FeS/3D interconnected carbon nanofiber aerogels as anodes for high performance sodium-ion batteries. Journal of Alloys and Compounds, 2019, 795, 54-59.	2.8	18
56	Catalytic Synthesis of Hard/Soft Carbon Hybrids with Heteroatom Doping for Enhanced Sodium Storage. ChemistrySelect, 2019, 4, 3551-3558.	0.7	9
57	Lotus Seedpod-Derived Hard Carbon with Hierarchical Porous Structure as Stable Anode for Sodium-Ion Batteries. ACS Applied Materials & amp; Interfaces, 2019, 11, 12554-12561.	4.0	131
58	A S/N-doped high-capacity mesoporous carbon anode for Na-ion batteries. Journal of Materials Chemistry A, 2019, 7, 11976-11984.	5.2	78
59	Sandwich-type nanoporous CoO/N-doped carbon multi-layers with ultrahigh lithium storage and long-life stability. Journal of Materials Chemistry A, 2019, 7, 10610-10618.	5.2	22
60	Nitrogen-enriched carbon-coated flower-like bismuth sulfide architectures towards high-performance lithium-ion battery anodes. Inorganic Chemistry Frontiers, 2019, 6, 1275-1281.	3.0	21
61	Environmentallyâ€Friendly Exfoliate and Active Site Selfâ€Assembly: Thin 2D/2D Heterostructure Amorphous Nickel–Iron Alloy on 2D Materials for Efficient Oxygen Evolution Reaction. Small, 2019, 15, e1805435.	5.2	64
62	Lignin-Derived Nitrogen-Doped Porous Carbon as a High-Rate Anode Material for Sodium Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A423-A428.	1.3	24
63	Integration of bio-inspired adsorption and photodegradation for the treatment of organics-containing radioactive wastewater. Chemical Engineering Journal, 2019, 364, 139-145.	6.6	47
64	Novel Method of Fabricating Free-Standing and Nitrogen-Doped 3D Hierarchically Porous Carbon Monoliths as Anodes for High-Performance Sodium-Ion Batteries by Supercritical CO ₂ Foaming. ACS Applied Materials & Interfaces, 2019, 11, 9125-9135.	4.0	14
65	Facile Synthesis of Hierarchically Porous N/P Codoped Carbon with Simultaneously High-Level Heteroatom-Doping and Moderate Porosity for High-Performance Supercapacitor Electrodes. ACS Sustainable Chemistry and Engineering, 2019, 7, 5717-5726.	3.2	79
66	Rambutanâ€Inspired Yolkâ€Shell Silica@Carbon Frameworks from Biomass for Longâ€Life Anode Materials. ChemistrySelect, 2019, 4, 14075-14081.	0.7	5
67	Constructing high-performance 3D porous self-standing electrodes with various morphologies and shapes by a flexible phase separation-derived method. Journal of Materials Chemistry A, 2019, 7, 22550-22558.	5.2	12
68	Ultrafine FeS ₂ nanocrystals/porous nitrogen-doped carbon hybrid nanospheres encapsulated in three-dimensional graphene for simultaneous efficient lithium and sodium ion storage. Journal of Materials Chemistry A, 2019, 7, 26342-26350.	5.2	53
69	In situ catalytic growth 3D multi-layers graphene sheets coated nano-silicon anode for high performance lithium-ion batteries. Chemical Engineering Journal, 2019, 356, 895-903.	6.6	131
70	Heterostructured SnS-ZnS@C hollow nanoboxes embedded in graphene for high performance lithium and sodium ion batteries. Chemical Engineering Journal, 2019, 356, 1042-1051.	6.6	181
71	Yolk-shelled Ni2P@carbon nanocomposite as high-performance anode material for lithium and sodium ion batteries. Applied Surface Science, 2019, 473, 699-705.	3.1	34
72	Hybrid energy storage devices: Advanced electrode materials and matching principles. Energy Storage Materials, 2019, 21, 22-40.	9.5	160

#	Article	IF	CITATIONS
73	High-Performance Sodium-Ion Batteries Based on Nitrogen-Doped Mesoporous Carbon Spheres with Ultrathin Nanosheets. ACS Applied Materials & Interfaces, 2019, 11, 2970-2977.	4.0	82
74	Tuning nitrogen species in three-dimensional porous carbon via phosphorus doping for ultra-fast potassium storage. Nano Energy, 2019, 57, 728-736.	8.2	323
75	N-graphene motivated SnO2@SnS2 heterostructure quantum dots for high performance lithium/sodium storage. Energy Storage Materials, 2019, 20, 225-233.	9.5	159
76	Controllable construction of interconnected SnO /N-doped carbon/carbon composite for enhanced-performance lithium-ion batteries anodes. Journal of Alloys and Compounds, 2019, 778, 731-740.	2.8	39
77	Constructing surface-driven lithium ion storage structure for high performance hybrid capacitor. Electrochimica Acta, 2019, 299, 163-172.	2.6	23
78	Flexible Sub-Micro Carbon Fiber@CNTs as Anodes for Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 5015-5021.	4.0	69
79	Core-shell Fe2N@amorphous carbon nanocomposite-filled 3D graphene framework: An additive-free anode material for lithium-ion batteries. Chemical Engineering Journal, 2019, 360, 1063-1070.	6.6	36
80	Ultrafine FeSe nanoparticles embedded into 3D carbon nanofiber aerogels with FeSe/Carbon interface for efficient and long-life sodium storage. Carbon, 2019, 143, 106-115.	5.4	78
81	Sub-20 nm Carbon Nanoparticles with Expanded Interlayer Spacing for High-Performance Potassium Storage. ACS Applied Materials & Interfaces, 2019, 11, 930-939.	4.0	54
82	Largely Increased Lithium Storage Ability of Mangnese Oxide through a Continuous Electronic Structure Modulation and Elevated Capacitive Contribution. ACS Sustainable Chemistry and Engineering, 2019, 7, 740-747.	3.2	18
83	Customized unique core-shell Fe2N@N-doped carbon with tunable void space for microwave response. Carbon, 2020, 156, 49-57.	5.4	101
84	Materials and engineering endeavors towards practical sodium-ion batteries. Energy Storage Materials, 2020, 25, 520-536.	9.5	51
85	Hierarchically porous hard carbon with graphite nanocrystals for high-rate sodium ion batteries with improved initial Coulombic efficiency. Journal of Alloys and Compounds, 2020, 817, 152703.	2.8	24
86	A Functionalized Carbon Surface for Highâ€Performance Sodiumâ€Ion Storage. Small, 2020, 16, e1902603.	5.2	51
87	Sulphur-doped carbon nanosheets derived from biomass as high-performance anode materials for sodium-ion batteries. Nano Energy, 2020, 67, 104219.	8.2	143
88	Recent advances in nanostructured carbon for sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 1604-1630.	5.2	130
89	Co3S4 ultrathin nanosheets entangled on N-doped amorphous carbon coated carbon nanotubes with C S bonding for high performance Li-ion batteries. Journal of Electroanalytical Chemistry, 2020, 858, 113794.	1.9	13
90	Nanomaterials application in Liâ \in "Se and Naâ \in "Se batteries. , 2020, , 69-114.		3

	CITATION R	EPORT	
#	Article	IF	Citations
91	Sustainable Synthesis of Biomass-Derived Carbon Electrodes with Hybrid Energy-Storage Behaviors for Use in High-Performance Na-Ion Capacitors. ACS Applied Energy Materials, 2020, 3, 2478-2489.	2.5	33
92	Developing an Interpenetrated Porous and Ultrasuperior Hard-Carbon Anode via a Promising Molten-Salt Evaporation Method. ACS Applied Materials & Interfaces, 2020, 12, 2481-2489.	4.0	54
93	A facile and cost effective synthesis of nitrogen and fluorine Co-doped porous carbon for high performance Sodium ion battery anode material. Journal of Power Sources, 2020, 448, 227568.	4.0	30
94	Extended plateau capacity of phosphorus-doped hard carbon used as an anode in Na- and K-ion batteries. Chemical Engineering Journal, 2020, 391, 123576.	6.6	88
95	Robust assembly of urchin-like NiCo2O4/CNTs architecture as bifunctional electrocatalyst in Zn-Air batteries. Ceramics International, 2020, 46, 6262-6269.	2.3	11
96	Phenolic resin-based carbon microspheres for potassium ion storage. Applied Surface Science, 2020, 506, 144805.	3.1	10
97	Optimized Kinetics Match and Charge Balance Toward Potassium Ion Hybrid Capacitors with Ultrahigh Energy and Power Densities. Small, 2020, 16, e2003724.	5.2	62
98	Heteroatom-doped carbon-based materials for lithium and sodium ion batteries. Energy Storage Materials, 2020, 32, 65-90.	9.5	225
99	N-doped carbon nanofibers with internal cross-linked multiple pores for both ultra-long cycling life and high capacity in highly durable K-ion battery anodes. Electrochimica Acta, 2020, 337, 135767.	2.6	31
100	Resol and urea derived N-doped porous carbon for Na-ion storage. Materials Chemistry and Physics, 2020, 254, 123535.	2.0	9
101	Review on comprehending and enhancing the initial Coulombic efficiency of anode materials in lithium-ion/sodium-ion batteries. Nano Energy, 2020, 77, 105143.	8.2	282
102	SeC Bonding Promoting Fast and Durable Na ⁺ Storage in Yolk–Shell SnSe ₂ @SeC. Small, 2020, 16, e2002486.	5.2	97
103	N/O/P-rich three-dimensional carbon network for fast sodium storage. Carbon, 2020, 170, 225-235.	5.4	76
104	Novel Approach Through the Harmonized Sulfur in Disordered Carbon Structure for High-Efficiency Sodium-Ion Exchange. ACS Applied Materials & Interfaces, 2020, 12, 43750-43760.	4.0	12
105	Recent progress of defect chemistry on 2D materials for advanced battery anodes. Chemistry - an Asian Journal, 2020, 15, 3390-3404.	1.7	35
106	Controllable Phosphorylation Strategy for Free-Standing Phosphorus/Nitrogen Cofunctionalized Porous Carbon Monoliths as High-Performance Potassium Ion Battery Anodes. ACS Nano, 2020, 14, 14057-14069.	7.3	67
107	Thermodynamically Metal Atom Trapping in Van der Waals Layers Enabling Multifunctional 3D Carbon Network. Advanced Functional Materials, 2020, 30, 2002626.	7.8	15
108	Ultrathin porous graphitic carbon nanosheets activated by alkali metal salts for high power density lithium-ion capacitors. Rare Metals, 2020, 39, 1364-1373.	3.6	37

#	Article	IF	CITATIONS
109	Micron-sized SiO _x /N-doped carbon composite spheres fabricated with biomass chitosan for high-performance lithium-ion battery anodes. RSC Advances, 2020, 10, 38524-38531.	1.7	13
110	3D Carbon Nanotube Network Bridged Heteroâ€Structured Niâ€Feâ€S Nanocubes toward Highâ€Performance Lithium, Sodium, and Potassium Storage. Advanced Functional Materials, 2020, 30, 2001592.	7.8	139
111	Structure-dependent sodium ion storage mechanism of cellulose nanocrystal-based carbon anodes for highly efficient and stable batteries. Journal of Power Sources, 2020, 468, 228371.	4.0	24
112	Direct carbonization of black liquor powders into 3D honeycomb-like porous carbons with a tunable disordered degree for sodium-ion batteries. New Journal of Chemistry, 2020, 44, 10697-10702.	1.4	3
113	Breaking the limitation of sodium-ion storage for nanostructured carbon anode by engineering desolvation barrier with neat electrolytes. Nano Energy, 2020, 74, 104895.	8.2	49
114	Nitrogen-doped carbon nanoboxes as high rate capability and long-life anode materials for high-performance Li-ion capacitors. Chemical Engineering Journal, 2020, 396, 125314.	6.6	41
115	Pomelo peel-based N, O-codoped hierarchical porous carbon material for supercapacitor application. Chemical Physics Letters, 2020, 753, 137597.	1.2	30
116	Fiber-Shape Na ₃ V ₂ (PO ₄) ₂ F ₃ @N-Doped Carbon as a Cathode Material with Enhanced Cycling Stability for Na-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 25920-25929.	4.0	58
117	Trace-Fe-Enhanced Capacitive Deionization of Saline Water by Boosting Electron Transfer of Electro-Adsorption Sites. Environmental Science & amp; Technology, 2020, 54, 8411-8419.	4.6	108
118	Design and Construction of Graphitic/Amorphous Heterophase Porous Carbon with a Lotus-Leaf-like Surface Microstructure for High-Performance Li-Ion and Na-Ion Batteries. Industrial & Engineering Chemistry Research, 2020, 59, 11475-11484.	1.8	14
119	Research progress on tin-based anode materials for sodium ion batteries. Rare Metals, 2020, 39, 1005-1018.	3.6	37
120	Phase inversion synthesis of Fe3O4@NC composites with superior lithium storage performance. Journal of Alloys and Compounds, 2020, 844, 156039.	2.8	11
121	Development of sulfide, nitrogen co-doping hollow carbon with wideband electromagnetic absorption capability. RSC Advances, 2020, 10, 22570-22577.	1.7	5
122	Recent progress in plant-derived hard carbon anode materials for sodium-ion batteries: a review. Rare Metals, 2020, 39, 1019-1033.	3.6	119
123	Hierarchical porous oviform carbon capsules with double-layer shells derived from mushroom spores for efficient sodium ion storage. Journal of Electroanalytical Chemistry, 2020, 871, 114310.	1.9	10
124	Fast Sodium Storage with Ultralong Cycle Life for Nitrogen Doped Hollow Carbon Nanofibers Anode at Elevated Temperature. Advanced Materials Interfaces, 2020, 7, 1901922.	1.9	14
125	Nitrogen-doped 3D nanocarbon with nanopore defects as high-capacity and stable anode materials for sodium/lithium-ion batteries. Materials Today Energy, 2020, 16, 100395.	2.5	17
126	Atomically Dispersed Manganese on a Carbon-Based Material for the Capture of Gaseous Mercury: Mechanisms and Environmental Applications. Environmental Science & Technology, 2020, 54, 5249-5257.	4.6	26

#	Article	IF	CITATIONS
127	Facile and scalable synthesis of a sulfur, selenium and nitrogen co-doped hard carbon anode for high performance Na- and K-ion batteries. Journal of Materials Chemistry A, 2020, 8, 14993-15001.	5.2	56
128	A Novel Strategy of In Situ Trimerization of Cyano Groups Between the Ti3C2Tx (MXene) Interlayers for High-Energy and High-Power Sodium-Ion Capacitors. Nano-Micro Letters, 2020, 12, 135.	14.4	49
129	Construction nasicon-type NaTi2(PO4)3 nanoshell on the surface of P2-type Na0.67Co0.2Mn0.8O2 cathode for superior room/low-temperature sodium storage. Chemical Engineering Journal, 2020, 402, 126181.	6.6	40
130	Natural N/O-doped hard carbon for high performance K-ion hybrid capacitors. Electrochimica Acta, 2020, 354, 136701.	2.6	27
131	Engineering defectâ€enabled 3D porous MoS ₂ /C architectures for high performance lithiumâ€ion batteries. Journal of the American Ceramic Society, 2020, 103, 4453-4462.	1.9	20
133	SnO2 nano-crystals anchored on N-doped porous carbon with enhanced lithium storage properties. Applied Surface Science, 2020, 515, 145902.	3.1	26
134	A solvent-assisted ligand exchange approach enables metal-organic frameworks with diverse and complex architectures. Nature Communications, 2020, 11, 927.	5.8	93
135	Controlled design of metal oxide-based (Mn2+/Nb5+) anodes for superior sodium-ion hybrid supercapacitors: Synergistic mechanisms of hybrid ion storage. Nano Energy, 2020, 71, 104594.	8.2	67
136	Co ₉ S ₈ nanoparticles embedded into amorphous carbon as anode materials for lithium-ion batteries. Nanotechnology, 2020, 31, 235713.	1.3	28
137	N-doped honeycomb-like porous carbon towards high-performance supercapacitor. Chinese Chemical Letters, 2020, 31, 1986-1990.	4.8	116
138	A Review on Applications of Layered Phosphorus in Energy Storage. Transactions of Tianjin University, 2020, 26, 104-126.	3.3	43
139	Hierarchical N-doped hollow carbon microspheres as advanced materials for high-performance lithium-ion capacitors. Journal of Materials Chemistry A, 2020, 8, 3956-3966.	5.2	58
140	Surface-dominated storage of heteroatoms-doping hard carbon for sodium-ion batteries. Energy Storage Materials, 2020, 27, 43-50.	9.5	165
141	Nitrogen-doped carbon derived from onion waste as anode material for high performance sodium-ion battery. Solid State Ionics, 2020, 346, 115223.	1.3	24
142	Tailoring porous structure and graphitic degree of seaweed-derived carbons for high-rate performance lithium-ion batteries. Journal of Alloys and Compounds, 2020, 823, 153862.	2.8	15
143	Polyanion-type electrode materials for advanced sodium-ion batteries. Materials Today Nano, 2020, 10, 100072.	2.3	57
144	FeP Quantum Dots Confined in Carbonâ€Nanotubeâ€Grafted Pâ€Doped Carbon Octahedra for Highâ€Rate Sodium Storage and Fullâ€Cell Applications. Advanced Functional Materials, 2020, 30, 1909283.	7.8	143
145	Defect Engineering on Electrode Materials for Rechargeable Batteries. Advanced Materials, 2020, 32, e1905923.	11.1	543

#	Article	IF	CITATIONS
146	Defect-rich and N-doped hard carbon as a sustainable anode for high-energy lithium-ion capacitors. Journal of Colloid and Interface Science, 2020, 567, 75-83.	5.0	58
147	A review of phosphorus and phosphides as anode materials for advanced sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 4996-5048.	5.2	108
148	Wood-Derived Carbon with Selectively Introduced Câ•O Groups toward Stable and High Capacity Anodes for Sodium Storage. ACS Applied Materials & Interfaces, 2020, 12, 27499-27507.	4.0	75
149	Integrated N, P co-doped and dense carbon networks produced by a chemical crosslinking strategy: Facilitating high gravimetric/volumetric performance sodium ion batteries. Carbon, 2020, 165, 204-215.	5.4	37
150	Controllable synthesis of tunable few-layered MoS2 chemically bonding with in situ conversion nitrogen-doped carbon for ultrafast reversible sodium and potassium storage. Chemical Engineering Journal, 2020, 393, 124703.	6.6	42
151	Electrospun free-standing FeP@NPC film for flexible sodium ion batteries with remarkable cycling stability. Energy Storage Materials, 2020, 29, 78-83.	9.5	92
152	Nitrogen and atomic Ni co-doped carbon material for sodium ion storage. Chemical Communications, 2020, 56, 5182-5185.	2.2	20
153	Rational design of high nitrogen-doped and core–shell/mesoporous carbon nanospheres with high rate capability and cycling longevity for pseudocapacitive sodium storage. Journal of Materials Chemistry A, 2020, 8, 9768-9775.	5.2	28
154	Facile fabrication of graphitization-enhanced wrinkled paper-like N-doped porous carbon <i>via</i> a ZnCl ₂ -modified NaCl-template method for use as an anode in lithium ion batteries. Sustainable Energy and Fuels, 2020, 4, 3477-3486.	2.5	8
155	Revealing the Intercalation Mechanisms of Lithium, Sodium, and Potassium in Hard Carbon. Advanced Energy Materials, 2020, 10, 2000283.	10.2	175
156	Insights into Lithium and Sodium Storage in Porous Carbon. Nano Letters, 2020, 20, 3836-3843.	4.5	86
157	Combustion synthesis of defect-rich carbon nanotubes as anodes for sodium-ion batteries. Applied Surface Science, 2020, 520, 146317.	3.1	34
158	Enhancing sodium-ion storage performance of MoO2/N-doped carbon through interfacial Mo-N-C bond. Science China Materials, 2021, 64, 85-95.	3.5	48
159	Can domestic wastes-evolved Fe2N@Carbon hybrids serve as competitive anodes for sustainable Li/Na storage applications?. Materials Research Bulletin, 2021, 134, 111088.	2.7	8
160	High-effective preparation of 3D hierarchical nanoporous interpenetrating network structure carbon membranes as flexible free-standing anodes for stable lithium and sodium storage. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 608, 125593.	2.3	10
161	Nitrogen/sulphur dual-doped hierarchical carbonaceous fibers boosting potassium-ion storage. Journal of Energy Chemistry, 2021, 55, 420-427.	7.1	41
162	Insight to defects regulation on sugarcane waste-derived hard carbon anode for sodium-ion batteries. Journal of Energy Chemistry, 2021, 55, 499-508.	7.1	72
163	Ultrathin MoS2 anchored on 3D carbon skeleton containing SnS quantum dots as a high-performance anode for advanced lithium ion batteries. Chemical Engineering Journal, 2021, 403, 126251.	6.6	105

#	Article	IF	CITATIONS
164	Hard carbon derived from coconut shells, walnut shells, and corn silk biomass waste exhibiting high capacity for Na-ion batteries. Journal of Energy Chemistry, 2021, 58, 207-218.	7.1	89
165	Uniformly dispersed nano-crystallite graphite in a silicon-oxygen-carbon matrix for high rate performance lithium-ion batteries. Journal of Alloys and Compounds, 2021, 857, 157476.	2.8	5
166	Hard Carbon Anodes: Fundamental Understanding and Commercial Perspectives for Naâ€ion Batteries beyond Liâ€ion and Kâ€ion Counterparts. Advanced Energy Materials, 2021, 11, .	10.2	282
167	All-carbon-frameworks enabled thick electrode with exceptional high-areal-capacity for Li-Ion storage. Carbon, 2021, 174, 1-9.	5.4	160
168	High rate capability of S-doped ordered mesoporous carbon materials with directional arrangement of carbon layers and large d-spacing for sodium-ion battery. Electrochimica Acta, 2021, 366, 137466.	2.6	37
169	The identification of specific N-configuration responsible for Li-ion storage in N-doped porous carbon nanofibers: An ex-situ study. Journal of Power Sources, 2021, 483, 229174.	4.0	17
170	A core-shell structured metal-organic frameworks-derived porous carbon nanowires as a superior anode for alkaline metal-ion batteries. Applied Surface Science, 2021, 541, 148473.	3.1	14
171	A hybrid lithium storage mechanism of hard carbon enhances its performance as anodes for lithium-ion batteries. Carbon, 2021, 178, 443-450.	5.4	53
172	Synchronously improved graphitization and surface area in a 3D porous carbon network as a high capacity anode material for lithium/sodium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 1260-1268.	5.2	44
173	Carbon materials for ion-intercalation involved rechargeable battery technologies. Chemical Society Reviews, 2021, 50, 2388-2443.	18.7	255
174	Ultralight and robust carbon nanofiber aerogels for advanced energy storage. Journal of Materials Chemistry A, 2021, 9, 900-907.	5.2	23
175	Phosphorus-doping-induced kinetics modulation for nitrogen-doped carbon mesoporous nanotubes as superior alkali metal anode beyond lithium for high-energy potassium-ion hybrid capacitors. Nanoscale, 2021, 13, 692-699.	2.8	46
176	Realizing simultaneously enhanced energy and power density full-cell construction using mixed hard carbon/Li4Ti5O12 electrode. Rare Metals, 2021, 40, 65-71.	3.6	13
177	Operando mechanistic and dynamic studies of N/P co-doped hard carbon nanofibers for efficient sodium storage. Chemical Communications, 2021, 57, 9610-9613.	2.2	24
178	Recent developments in carbon-based materials as high-rate anode for sodium ion batteries. Materials Chemistry Frontiers, 2021, 5, 4089-4106.	3.2	25
179	Practical strategies for enhanced performance of anode materials in Na ⁺ /K ⁺ ion batteries. Journal of Materials Chemistry A, 2021, 9, 7317-7335.	5.2	41
180	Understanding Structure–Property Relationships under Experimental Conditions for the Optimization of Lithiumâ€Ion Capacitor Anodes based on All arbon omposite Materials. Energy Technology, 2021, 9, 2001054.	1.8	2
181	Significant contribution of single atomic Mn implanted in carbon nanosheets to high-performance sodium–ion hybrid capacitors. Energy and Environmental Science, 2021, 14, 4564-4573.	15.6	66

#	Article	IF	CITATIONS
182	Sulfur-doped mesoporous carbon activated by sodium sulfate as a superior performance anode for lithium ion batteries. Ionics, 2021, 27, 1061-1068.	1.2	4
183	Notoginseng-derived B/N co-doped porous carbon with high N-doped content and good electrochemical performance. Ionics, 2021, 27, 1439-1449.	1.2	14
184	Integrating amorphous vanadium oxide into carbon nanofibers via electrospinning as high-performance anodes for alkaline ion (Li+/Na+/K+) batteries. Electrochimica Acta, 2021, 369, 137711.	2.6	28
185	Fe ₂ VO ₄ Nanoparticles Anchored on Ordered Mesoporous Carbon with Pseudocapacitive Behaviors for Efficient Sodium Storage. Advanced Functional Materials, 2021, 31, 2009756.	7.8	46
186	The use of in-situ Raman spectroscopy in investigating carbon materials as anodes of alkali metal-ion batteries. New Carbon Materials, 2021, 36, 93-105.	2.9	29
187	Dualâ€Active Sites Engineering of Nâ€Doped Hollow Carbon Nanocubes Confining Bimetal Alloys as Bifunctional Oxygen Electrocatalysts for Flexible Metal–Air Batteries. Small, 2021, 17, e2007239.	5.2	71
188	Highly conductive Co3Se4 embedded in N-doped 3D interconnected carbonaceous network for enhanced lithium and sodium storage. Journal of Colloid and Interface Science, 2021, 586, 630-639.	5.0	27
189	Maximized pseudo-graphitic content in self-supported hollow interconnected carbon foam boosting ultrastable Na-ion storage. Electrochimica Acta, 2021, 371, 137776.	2.6	7
190	Dual-Functional Template-Induced <i>In Situ</i> Polymerization Process Enables the Hierarchical Carbonaceous Nanotubes with Simultaneous Sn Cluster Incorporation and Nitrogen-Doping for Superior Potassium-Ion Storage. ACS Applied Materials & Interfaces, 2021, 13, 13139-13148.	4.0	27
191	Defects in Hard Carbon: Where Are They Located and How Does the Location Affect Alkaline Metal Storage?. Small, 2021, 17, e2007652.	5.2	28
192	Directional Oxygen Functionalization by Defect in Different Metamorphicâ€Grade Coalâ€Đerived Carbon Materials for Sodium Storage. Energy and Environmental Materials, 2022, 5, 313-320.	7.3	30
193	Enhancing capacitive storage of carbonaceous anode by surface doping and structural modulation for high-performance sodium-ion battery. Powder Technology, 2021, 382, 541-549.	2.1	17
194	3D nitrogen and sulfur equilibrium co-doping hollow carbon nanosheets as Na-ion battery anode with ultralong cycle life and superior rate capability. Applied Surface Science, 2021, 546, 149168.	3.1	13
195	Emergence of melanin-inspired supercapacitors. Nano Today, 2021, 37, 101075.	6.2	121
196	Boost sodium-ion batteries to commercialization: Strategies to enhance initial Coulombic efficiency of hard carbon anode. Nano Energy, 2021, 82, 105738.	8.2	161
197	Closeâ€packed storage of potassium metallic clusters achieved through nanostructure engineering of ultrafine hollow nanoparticlesâ€based carbon nanoclusters. EcoMat, 2021, 3, e12105.	6.8	7
198	Controlling intercalation sites of hard carbon for enhancing Na and K storage performance. Chemical Engineering Journal, 2021, 411, 128490.	6.6	57
199	Tuning fermi level and band gap in Li ₄ Ti ₅ O ₁₂ by doping and vacancy for ultrafast Li ⁺ insertion/extraction. Journal of the American Ceramic Society, 2021, 104, 5934-5945.	1.9	17

ARTICLE IF CITATIONS Three-dimensional hierarchical porous hard carbon for excellent sodium/potassium storage and 200 2.5 24 mechanism investigation. Materials Today Energy, 2021, 20, 100673. Heterogeneous Interface Design for Enhanced Sodium Storage: Sb Quantum Dots Confined by 4.6 Functional Carbon. Small Methods, 2021, 5, e2100188. Spiral Graphene Coupling Hierarchically Porous Carbon Advances Dual-Carbon Lithium Ion Capacitor. 202 9.5 39 Energy Storage Materials, 2021, 38, 528-534. CuCo₂O₄ Hollow Microspheres with Graphene Composite Targeting Superior Lithium-Ion Storage. Langmuir, 2021, 37, 8426-8434. Fabrications and Na<sup>+</sup> Storage Characteristics of Nitrogen-doped 204 0.6 2 Biomass-derived Carbon Materials. Electrochemistry, 2021, 89, 382-388. Defect engineering on the defluorinated MWCNTs@SnO2@N-doped carbon composite for enhanced lithium storage performance. Ceramics International, 2021, 47, 34242-34252. 2.3 Gas phase self-assembly of carbon confined Felâ[^]xS nanoparticles/exfoliated graphite composite with 206 nano-/micro-structure for long-life anode of potassium-ion batteries. Journal of Alloys and 2.8 8 Compounds, 2021, 871, 159522. Commercializationâ€Driven Electrodes Design for Lithium Batteries: Basic Guidance, Opportunities, and 5.2 38 Perspectives. Small, 2021, 17, e2102233. Hard Carbon Anodes for Nextâ€Generation Liâ€Ion Batteries: Review and Perspective. Advanced Energy 208 10.2 213 Materials, 2021, 11, 2101650. Soft-Carbon-Coated, Free-Standing, Low-Defect, Hard-Carbon Anode To Achieve a 94% Initial 209 Coulombic Efficiency for Sodium-Ion Batteries. ACS Applied Materials & amp; Interfaces, 2021, 13, 44358-44368. Raising lithium-ion storage capacity by order-to-disorder transformation in MAX-derived carbon 210 4 5.4anode during cycling. Carbon, 2021, 185, 681-696. Glyoxylic-Acetal-Based Electrolytes in Combination with Soft and Hard Carbon Electrodes for Lithium-Ion Batteries: An Evaluation of Room and High Temperature Performance. Journal of the 1.3 Electrochemical Society, 2021, 168, 090533. Rational design of carbon anodes by catalytic pyrolysis of graphitic carbon nitride for efficient 212 8.2 50 storage of Na and K mobile ions. Nano Enérgy, 2021, 87, 106184. High ICE Hard Carbon Anodes for Lithium-Ion Batteries Enabled by a High Work Function. ACS Applied Materials & amp; Interfaces, 2021, 13, 46813-46820. Functional carbon materials processed by NH3 plasma for advanced full-carbon sodium-ion 214 32 6.6 capacitors. Chemical Engineering Journal, 2021, 420, 129647. Novel composite nano-materials with 3D multilayer-graphene structures from biomass-based activated-carbon for ultrahigh Li-ion battery performance. Electrochimica Acta, 2021, 390, 138839. Constructing layer/tunnel biphasic Na0.6Fe0.04Mn0.96O2 enables simultaneous kinetics enhancement 216 and phase transition suppression for high power/energy density sodium-ion full cell. Energy Storage 9.5 19 Materials, 2021, 40, 320-328. Cyano groups: New active sites of porous carbon materials achieving a superior K-ion storage. 5.4 Carbon, 2021, 184, 156-166.

		15	2
#	ARTICLE	IF	CITATIONS
218	Nitrogen-doped chain-like carbon nanospheres with tunable interlayer distance for superior pseudocapacitance-dominated zinc- and potassium-ion storage. Carbon, 2021, 184, 534-543.	5.4	35
219	Boosting Sodium Storage Performance of Hard Carbon Anodes by Pore Architecture Engineering. ACS Applied Materials & Interfaces, 2021, 13, 47671-47683.	4.0	34
220	New insights into carbon-based and MXene anodes for Na and K-ion storage: A review. Journal of Energy Chemistry, 2021, 62, 660-691.	7.1	56
221	Protein-derived 3D amorphous carbon with N, O doping as high rate and long lifespan anode for potassium ion batteries. Journal of Power Sources, 2021, 512, 230530.	4.0	20
222	Ultra-thin N-doped carbon coated SnO2 nanotubes as anode material for high performance lithium-ion batteries. Applied Surface Science, 2021, 568, 150969.	3.1	16
223	Simple preparation of Si/N-doped carbon anodes from photovoltaic industry waste for lithium-ion batteries. Journal of Alloys and Compounds, 2022, 890, 161792.	2.8	26
224	Rational design of few-layer FePS3 nanosheets@N-doped carbon composites as anodes for sodium-ion batteries. Chemical Engineering Journal, 2022, 427, 130882.	6.6	22
225	Insights into the thermochemical evolution of maleic anhydride-initiated esterified starch to construct hard carbon microspheres for lithium-ion batteries. Journal of Energy Chemistry, 2022, 66, 448-458.	7.1	38
226	A review of nickel-rich layered oxide cathodes: synthetic strategies, structural characteristics, failure mechanism, improvement approaches and prospects. Applied Energy, 2022, 305, 117849.	5.1	44
227	Synthesis of presodiated B, N Co-doped carbon materials and application in sodium ions batteries with enhanced initial coulombic efficiency. Chemical Engineering Journal, 2022, 427, 131951.	6.6	26
228	Heteroatom-doped carbon materials with interconnected channels as ultrastable anodes for lithium/sodium ion batteries. Dalton Transactions, 2021, 50, 4335-4344.	1.6	12
229	Integrating a metal framework with Co-confined carbon nanotubes as trifunctional electrocatalysts to boost electron and mass transfer approaching practical applications. Nanoscale, 2021, 13, 12651-12658.	2.8	2
230	Ionic liquid-induced graphitization of biochar: N/P dual-doped carbon nanosheets for high-performance lithium/sodium storage. Journal of Materials Science, 2021, 56, 8186-8201.	1.7	13
231	High-performance lithium battery driven by hybrid lithium storage mechanism in 3D architectured carbonized eggshell membrane anode. Carbon, 2020, 166, 26-35.	5.4	9
232	P ₄ Nb ₂ O ₁₅ @CNTs: A New Type of Niobium Phosphate Compositing Carbon Nanotube Used as Anode Material for High-Rate Lithium Storage. ACS Sustainable Chemistry and Engineering, 2021, 9, 216-223.	3.2	10
233	Preparation of ZnS@N-doped-carbon composites <i>via</i> a ZnS-amine precursor vacuum pyrolysis route. RSC Advances, 2021, 11, 33344-33353.	1.7	6
234	Intergrowth of Graphiteâ€Like Crystals in Hard Carbon for Highly Reversible Naâ€lon Storage. Advanced Functional Materials, 2022, 32, 2106980.	7.8	22
235	Fast-chargeable N-doped multi-oriented graphitic carbon as a Li-intercalation compound. Energy Storage Materials, 2022, 44, 416-424.	9.5	21

#	Article	IF	Citations
236	Review—Recent Advances of Carbon-Based Nanocomposites as the Anode Materials for Lithium-Ion Batteries: Synthesis and Performance. Journal of the Electrochemical Society, 2021, 168, 110520.	1.3	12
237	Charge Storage Behavior of Carbon Nanoparticles toward Alkali Metal Ions at Fast-Charging Rates. ACS Applied Energy Materials, 0, , .	2.5	2
238	Nanoporous carbon nanowires derived from one-dimensional metal-organic framework core-shell hybrids for enhanced electrochemical energy storage. Applied Surface Science, 2022, 576, 151800.	3.1	9
239	Extremely fast charging lithium-ion battery using bio-based polymer-derived heavily nitrogen doped carbon. Chemical Communications, 2021, , .	2.2	11
240	Insights into the diverse precursor-based micro-spherical hard carbons as anode materials for sodium–ion and potassium–ion batteries. Materials Advances, 2022, 3, 810-836.	2.6	24
241	Defectâ€Selectivity and "Orderâ€inâ€Disorder―Engineering in Carbon for Durable and Fast Potassium Storage. Advanced Materials, 2022, 34, e2108621.	11.1	96
242	Optimizing the microstructure of carbon nano-honeycombs for high-energy sodium-ion capacitor. Electrochimica Acta, 2022, 403, 139675.	2.6	11
243	Facile approach to prepare FeP2/P/C nanofiber heterostructure via electrospinning as highly performance self-supporting anode for Li/Na ion batteries. Electrochimica Acta, 2022, 403, 139682.	2.6	10
244	Bismuth nanorods confined in hollow carbon structures for high performance sodium- and potassium-ion batteries. Journal of Energy Chemistry, 2022, 67, 787-796.	7.1	28
245	Controllable and high-yielding synthesis of ZIF-8 hollow structures for electrochemical energy storage. Chemical Engineering Journal, 2022, 431, 134008.	6.6	9
246	Engineering oxygen vacancies in CoO@Co ₃ O ₄ /C nanocomposites for enhanced electrochemical performances. Nanoscale, 2021, 13, 19518-19526.	2.8	17
247	A comparative overview of carbon anodes for nonaqueous alkali metal-ion batteries. Journal of Materials Chemistry A, 2021, 9, 27140-27169.	5.2	25
248	An ultrafast and facile nondestructive strategy to convert various inefficient commercial nanocarbons to highly active Fenton-like catalysts. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	12
249	Insight into defect-engineered gallium oxynitride nanoparticle-based electrodes with improved electrochemical performance for supercapacitors. Electrochimica Acta, 2022, 404, 139733.	2.6	6
250	Nanoscale localized growth of SnSb for general-purpose high performance alkali (Li, Na, K) ion storage. Chemical Engineering Journal, 2022, 431, 134318.	6.6	11
251	Facile Preparation of V ₂ O ₃ /Black Fungus-Derived Carbon Composite with Hierarchical Porosity as a Promising Electrode for Lithium/Sodium Ion Batteries. SSRN Electronic Journal, 0, , .	0.4	0
252	"Quasi-Zero-Strain―TiO _{2–<i>x</i>} as an Ultra-Long-Life Anode for Li-Ion Batteries. ACS Applied Energy Materials, 2022, 5, 1305-1312.	2.5	11
253	Recent Progress on Asymmetric Carbon- and Silica-Based Nanomaterials: From Synthetic Strategies to Their Applications. Nano-Micro Letters, 2022, 14, 45.	14.4	26

		15	0
#	ARTICLE	IF	CITATIONS
254	Cobalt-Catalyzed Carbonization Incorporating Disordered Defects in Ordered Graphitic Domains for Fast and Ultrastable Potassium-Ion Battery. ACS Applied Materials & amp; Interfaces, 2022, 14, 5487-5496.	4.0	10
255	Probing the active sites of 2D nanosheets with Fe-N-C carbon shell encapsulated FexC/Fe species for boosting sodium-ion storage performances. Nano Research, 2022, 15, 7154-7162.	5.8	14
256	Lithium insertion in hard carbon as observed by ⁷ Li NMR and XRD. The local and mesoscopic order and their relevance for lithium storage and diffusion. Journal of Materials Chemistry A, 2022, 10, 10069-10082.	5.2	6
257	Template-mediated strategy to regulate hierarchically nitrogen—sulfur co-doped porous carbon as superior anode material for lithium capacity. Frontiers of Materials Science, 2022, 16, 1.	1.1	2
258	Create Rich Oxygen Defects of Unique Tubular Hierarchical Molybdenum Dioxide to Modulate Electron Transfer Rate for Superior Highâ€Energy Metalâ€Ion Hybrid Capacitor. Energy and Environmental Materials, 2023, 6, .	7.3	9
259	Pomegranate-Inspired Nitrogen-Doped Carbon-Coated Bimetallic Sulfides as a High-Performance Anode of Sodium-Ion Batteries and Their Structural Evolution Analysis. ACS Applied Energy Materials, 2022, 5, 3199-3207.	2.5	9
260	Fast Charging Anode Materials for Lithiumâ€lon Batteries: Current Status and Perspectives. Advanced Functional Materials, 2022, 32, .	7.8	185
261	Polymer Electrode Materials for Lithiumâ€lon Batteries. Advanced Functional Materials, 2022, 32, .	7.8	52
262	Turning rice husks to a valuable boron and nitrogen co-doped porous C/SiOx composite for high performance lithium-ion battery anodes. Microporous and Mesoporous Materials, 2022, 335, 111794.	2.2	5
263	Facile preparation of V2O3/black fungus-derived carbon composite with hierarchical porosity as a promising electrode for lithium/sodium ion batteries. Journal of Alloys and Compounds, 2022, 905, 164258.	2.8	21
264	Sulfur-doped hollow soft-balled mesoporous carbon particles as ultra-fast, durable hosts for potassium storage. Journal of Alloys and Compounds, 2022, 906, 164311.	2.8	8
265	Hard Carbon Microsphere with Expanded Graphitic Interlayers Derived from a Highly Branched Polymer Network as Ultrahigh Performance Anode for Practical Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 61180-61188.	4.0	11
266	Silicon Nanoparticles Embedded in Nitrogenâ€doped Hard Carbon Microspheres with a Double Carbon Matrix for Enhanced Cycling Performance of Lithiumâ€ion Batteries. ChemistrySelect, 2022, 7, .	0.7	3
268	Towards Enhanced Sodium Storage of Hard Carbon Anodes: Regulating the Oxygen Content in Precursor by Low-Temperature Hydrogen Reduction. SSRN Electronic Journal, 0, , .	0.4	0
269	An Overall Understanding of Sodium Storage Behaviors in Hard Carbons by an "Adsorptionâ€Intercalation/Filling―Hybrid Mechanism. Advanced Energy Materials, 2022, 12, .	10.2	121
270	High-energy graphite microcrystalline carbon for high-performance lithium-ion capacitor: Diffusion kinetics and lithium-storage mechanism. Journal of Colloid and Interface Science, 2022, 623, 1190-1199.	5.0	7
271	N, P co-doped pitch derived soft carbon nanoboxes as high-performance anodes for sodium-ion batteries. Journal of Alloys and Compounds, 2022, 918, 165691.	2.8	15
272	Microporous Carbon Nanospheres with Fast Sodium Storage Capability Enabled by Dominant Capacitive Behavior. Langmuir, 2022, 38, 7331-7340.	1.6	7

#	Article	IF	CITATIONS
273	Double Reaction Initiated Self-Assembly Process Fabricated Hard Carbon with High Power Capability for Lithium Ion Capacitor Anodes. SSRN Electronic Journal, 0, , .	0.4	0
274	Boosting Surfaceâ€Dominated Sodium Storage of Carbon Anode Enabled by Coupling Graphene Nanodomains, Nitrogenâ€Doping, and Nanoarchitecture Engineering. Advanced Functional Materials, 2022, 32, .	7.8	34
275	Understanding of Sodium Storage Mechanism in Hard Carbons: Ongoing Development under Debate. Advanced Energy Materials, 2022, 12, .	10.2	88
276	Constructing abundant oxygen vacancies in NaVPO4F@C for boosting sodium storage kinetics. Electrochimica Acta, 2022, 424, 140695.	2.6	11
277	Tailored Edge-Heteroatom Tri-Doping Strategy of Turbostratic Carbon Anodes for High-Rate Performance Lithium and Sodium-Ion Batteries. SSRN Electronic Journal, 0, , .	0.4	0
278	Layered Oxide Cathode-Inspired Secondary Hard Carbon Microsphere Anode Material for High-Power and Long-Life Rechargeable Batteries. SSRN Electronic Journal, O, , .	0.4	0
279	Structural and Interfacial Characterization of a Sustainable Si/Hard Carbon Composite Anode for Lithium-Ion Batteries. ACS Applied Materials & amp; Interfaces, 2022, 14, 33257-33273.	4.0	15
280	Molecular Structure Evaluation and Image-Guided Atomistic Representation of Hard Carbon Electrodes. Journal of the Electrochemical Society, 2022, 169, 070517.	1.3	4
281	Towards enhanced sodium storage of hard carbon anodes: Regulating the oxygen content in precursor by low-temperature hydrogen reduction. Energy Storage Materials, 2022, 51, 620-629.	9.5	45
282	Nano-Graphite Prepared by Rapid Pulverization as Anode for Lithium-Ion Batteries. Materials, 2022, 15, 5148.	1.3	6
283	Ultrasmall ZnO Nanocrystals Confined in Honeycombed Nâ€Đoped Carbon for Highâ€Performance and Stable Lithium/Sodium Ion Batteries. Energy Technology, 0, , 2200446.	1.8	4
284	Increasing N active sites by in-situ growing conformal C3N4 layer in hierarchical porous carbon-based networks for fast Li+ transfer and polysulfide anchoring in lithium-sulfur batteries. Journal of Colloid and Interface Science, 2022, 627, 838-847.	5.0	3
285	Kinetic Analysis of Bio-oil Derived Hierarchically Porous Carbon for Superior Li ⁺ /Na ⁺ Storage. Journal of Physical Chemistry Letters, 2022, 13, 7273-7279.	2.1	8
286	Highly Nâ€doped carbon with low graphiticâ€N content as anode material for enhanced initial Coulombic efficiency of lithiumâ€ion batteries. , 2023, 5, .		34
287	Completely crystalline carbon containing graphite-like crystal enables 99.5% initial coulombic efficiency for Na-ion batteries. Materials Today, 2022, 59, 25-35.	8.3	16
288	Facile synthesis of hollow stalagmite-like N, S-doped C and its capacity attenuation mechanism as anodes in K-ion batteries. Carbon, 2022, 200, 56-62.	5.4	8
289	Promotion of higher synthesis temperature for higher-efficient removal of antimonite and antimonate in aqueous solution by iron-loaded porous biochar. Bioresource Technology, 2022, 363, 127889.	4.8	12
290	Metal-organic framework-derived transition metal sulfides and their composites for alkali-ion batteries: A review. Coordination Chemistry Reviews, 2022, 472, 214781.	9.5	62

#	Article	IF	CITATIONS
291	Regulating Oxygen Configuration in Hierarchically Porous Carbon Nanosheets for Highâ€Rate and Durable Na ⁺ Storage. Chemistry - A European Journal, 2022, 28, .	1.7	3
292	Double reaction initiated self-assembly process fabricated hard carbon with high power capability for lithium ion capacitor anodes. Applied Surface Science, 2023, 609, 155083.	3.1	6
293	Structure and function of hard carbon negative electrodes for sodium-ion batteries. JPhys Energy, 2022, 4, 042001.	2.3	12
294	Hydrogen Stabilization and Activation of Dry-Quenched Coke for High-Rate-Performance Lithium-Ion Batteries. Nanomaterials, 2022, 12, 3530.	1.9	0
295	Is There a Ready Recipe for Hard Carbon Electrode Engineering to Enhance Na-Ion Battery Performance?. ACS Applied Energy Materials, 2022, 5, 12373-12387.	2.5	4
296	Tailored edge-heteroatom tri-doping strategy of turbostratic carbon anodes for high-rate performance lithium and sodium-ion batteries. Energy Storage Materials, 2023, 54, 498-507.	9.5	28
297	A Nickel-decorated porous graphitized carbon/sulfur cathode enabling excellent cycling stability of all-solid-state lithium-sulfur batteries. Journal of Electroanalytical Chemistry, 2022, 926, 116908.	1.9	2
298	Layered oxide cathode-inspired secondary hard carbon microsphere anode material for high-power and long-life rechargeable batteries. Chemical Engineering Journal, 2023, 454, 140252.	6.6	3
299	Modulating interfacial charge density of FeCo oxyhydroxides via coupling with graphene oxide aerogel for boosting oxygen evolution reaction. Journal of Alloys and Compounds, 2023, 934, 167911.	2.8	9
300	Extraordinary Ultrahighâ€Capacity and Long Cycle Life Lithiumâ€Ion Batteries Enabled by Graphitic Carbon Nitrideâ€Perylene Polyimide Composites. Energy and Environmental Materials, 2023, 6, .	7.3	4
301	β-NaVO ₃ as a pseudocapacitive anode material for sodium-ion batteries. New Journal of Chemistry, 2023, 47, 1268-1277.	1.4	3
302	A Paradigm of Calendaringâ€Driven Electrode Microstructure for Balanced Battery Energy Density and Power Density. Advanced Energy Materials, 2023, 13, .	10.2	13
303	Engineering of the Crystalline Lattice of Hard Carbon Anodes Toward Practical Potassiumâ€lon Batteries. Advanced Functional Materials, 2023, 33, .	7.8	31
304	High Proportion of Active Nitrogenâ€Doped Hard Carbon Based on Mannich Reaction as Anode Material for Highâ€Performance Sodiumâ€Ion Batteries. ChemSusChem, 2023, 16, .	3.6	25
305	NiS ₂ /FeS Heterostructured Nanoflowers for High-Performance Sodium Storage. Energy Material Advances, 2023, 4, .	4.7	15
306	Tuning Nitrogen-Doped Carbon Electrodes via Synthesis Temperature Adjustment to Improve Sodium- and Lithium-Ion Storage. Batteries, 2023, 9, 45.	2.1	1
307	Pyrolysis-Free Mechanochemical Conversion of Small Organic Molecules into Metal-Free Heteroatom-Doped Mesoporous Carbons for Efficient Electrosynthesis of Hydrogen Peroxide. , 2023, 5, 379-387.		6
308	Synthetic porous carbons for clean energy storage and conversion. EnergyChem, 2023, 5, 100099.	10.1	6

#	Article	IF	CITATIONS
309	Hierarchical porous hard carbon derived from rice husks for high-performance sodium ion storage. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 661, 130927.	2.3	8
310	Li-ion complex enhances interfacial lowest unoccupied molecular orbital for stable solid electrolyte interface of natural graphite anode. Electrochimica Acta, 2023, 449, 142262.	2.6	4
311	Highly nitrogen-doped carbon nanosheets derived from Cu-melamine coordination framework for fast lithium and sodium storage. Materials Research Bulletin, 2023, 164, 112258.	2.7	1
312	Highly conductive S-doped FeSe2-xSx microsphere with high tap density for practical sodium storage. , 2023, 2, 100120.		8
313	Nitrogen doped porous carbon with high rate performance for lithium ion storage. Journal of Electroanalytical Chemistry, 2023, 932, 117254.	1.9	4
314	Recent Progress in Biomass-Derived Carbon Materials for Li-Ion and Na-Ion Batteries—A Review. Batteries, 2023, 9, 116.	2.1	17
315	Pyrolyzed Organic Pigment as Efficient Surface-Dominated Alkali-Ion Storage Anodes. ACS Applied Materials & Interfaces, 2023, 15, 11652-11661.	4.0	0
316	Effective Coupling of Amorphous Selenium Phosphide with Highâ€Conductivity Graphene as Resilient Highâ€Capacity Anode for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2023, 33, .	7.8	22
317	Ultrafast synthesis of battery grade graphite enabled by a multi-physics field carbonization. Chemical Engineering Journal, 2023, 461, 142128.	6.6	1
318	Growing curly graphene layer boosts hard carbon with superior sodium-ion storage. Nano Research, 2023, 16, 9299-9309.	5.8	7
319	Bio-inspired non-conjugated poly(carbonylpyridinium) as anode material for high-performance alkali-ion (Li+, Na+, and K+) batteries. Journal of Colloid and Interface Science, 2023, 643, 541-550.	5.0	3
320	Zinc Singleâ€Atomâ€Regulated Hard Carbons for Highâ€Rate and Lowâ€Temperature Sodium″on Batteries. Advanced Materials, 2023, 35, .	11.1	33
321	Intrinsic effects of precursor functional groups on the Na storage performance in carbon anodes. Nano Research, 0, , .	5.8	2
322	Improving the Initial Coulombic Efficiency of Carbonaceous Materials for Li/Na-Ion Batteries: Origins, Solutions, and Perspectives. Electrochemical Energy Reviews, 2023, 6, .	13.1	25
323	Synthesis of FeS/Fe2O3 hollow fibers derived from Fe-alginate fibers as anodes for high performance sodium-ion batteries. Journal of Alloys and Compounds, 2023, 952, 169908.	2.8	1
324	The Progress of Hard Carbon as an Anode Material in Sodium-Ion Batteries. Molecules, 2023, 28, 3134.	1.7	13
325	High Initial Coulombic Efficiency Hard Carbon Anodes Enabled by Facile Surface Annealing Engineering. Chemistry - an Asian Journal, 2023, 18, .	1.7	2
326	Subtle tuning of nanodefects actuates highly efficient electrocatalytic oxidation. Nature Communications, 2023, 14, .	5.8	11

		CITATION R	CITATION REPORT	
			15	Circurations
#	ARTICLE		IF	CITATIONS
327	Carbon skeleton materials derived from rare earth phthalocyanines (MPcs) (M = Yb, La performance anode materials for lithium-ion batteries. Dalton Transactions, 2023, 52,) used as high 6641-6655.	1.6	1
328	A review of nitrogen-doped carbon materials for lithium-ion battery anodes. New Carbo 2023, 38, 247-278.	on Materials,	2.9	7
345	Hard carbon: a potential anode material for potassium ion batteries and its current bot Energy Advances, 0, , .	tleneck.	1.4	0