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High-density sodium and lithium ion battery anodes from banana peels

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731	A Few-Layer SnS ₂ /Reduced Graphene Oxide Sandwich Hybrid for Efficient Sodium Storage.		
730	Chemically Presodiated Hard Carbon Anodes with Enhanced Initial Coulombic Efficiencies for High-Energy Sodium Ion Batteries.		
729	Flexible Paper-like Free-Standing Electrodes by Anchoring Ultrafine SnS ₂ Nanocrystals on Graphene Nanoribbons for High-Performance Sodium Ion Batteries.		
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723	Revealing the Sodium Storage Mechanism in High-Temperature-Synthesized Silicon Oxycarbides.		
722	N-doped ordered mesoporous carbon as a high performance anode material in sodium ion batteries at room temperature. 2014 , 4, 62673-62677		46
721	Origin of non-SEI related coulombic efficiency loss in carbons tested against Na and Li. 2014 , 2, 19685-19695		146
720	Nanocups-on-microtubes: a unique host towards high-performance lithium ion batteries. 2014 , 2, 15191-15199		22
719	Activation with Li enables facile sodium storage in germanium. 2014 , 14, 5873-82		102
718	Sulfur Refines MoO ₂ Distribution Enabling Improved Lithium Ion Battery Performance. 2014 , 118, 18387-18396		69
717	Possibilities of nanosheet graphenes in synthetic graphite. 2015 , 4, 90-96		1
716	Tailoring MoO ₂ /Graphene Oxide Nanostructures for Stable, High-Density Sodium-Ion Battery Anodes. 2015 , 3, 1108-1114		50
715	Carbon Quantum Dots and Their Derivative 3D Porous Carbon Frameworks for Sodium-Ion Batteries with Ultralong Cycle Life. 2015 , 27, 7861-6		892

714	A Quasi-Solid-State Sodium-Ion Capacitor with High Energy Density. 2015 , 27, 6962-8	155
713	Waste Tire Derived Carbon-Polymer Composite Paper as Pseudocapacitive Electrode with Long Cycle Life. 2015 , 8, 3576-81	79
712	Sundew adhesive: a naturally occurring hydrogel. 2015 , 12,	22
711	Amorphous (Glassy) Carbon, a Promising Material for Sodium Ion Battery Anodes: a Combined First-Principles and Experimental Study. 2015 , 119, 13496-13501	44
710	Hierarchically porous carbon by activation of shiitake mushroom for capacitive energy storage. 2015 , 93, 315-324	317
709	Carbonaceous photonic crystals as ultralong cycling anodes for lithium and sodium batteries. 2015 , 3, 13786-13793	17
708	One-dimensional nanofiber architecture of an anatase TiO ₂ /carbon composite with improved sodium storage performance. 2015 , 5, 106252-106257	12
707	Porous N-doped carbon material derived from prolific chitosan biomass as a high-performance electrode for energy storage. 2015 , 5, 97427-97434	53
706	Recent Development on Anodes for Na-Ion Batteries. 2015 , 55, 486-507	151
705	3D MoS ₂ /Graphene Microspheres Consisting of Multiple Nanospheres with Superior Sodium Ion Storage Properties. 2015 , 25, 1780-1788	436
704	Surface capacitive contributions: Towards high rate anode materials for sodium ion batteries. 2015 , 12, 224-230	301
703	Atomic force microscopy studies on molybdenum disulfide flakes as sodium-ion anodes. 2015 , 15, 1018-24	99
702	Low-surface-area hard carbon anode for na-ion batteries via graphene oxide as a dehydration agent. 2015 , 7, 2626-31	188
701	Recent developments in electrode materials for sodium-ion batteries. 2015 , 3, 9353-9378	357
700	Carbon nanofibers/nanosheets hybrid derived from cornstalks as a sustainable anode for Li-ion batteries. 2015 , 3, 6742-6746	64
699	From graphite to porous graphene-like nanosheets for high rate lithium-ion batteries. 2015 , 8, 2998-3010	64
698	Scalable and rapid Far Infrared reduction of graphene oxide for high performance lithium ion batteries. 2015 , 1, 9-16	30
697	Properties and sodium insertion behavior of Phenolic Resin-based hard carbon microspheres obtained by a hydrothermal method. 2015 , 755, 87-91	34

696	New Mechanistic Insights on Na-Ion Storage in Nongraphitizable Carbon. 2015 , 15, 5888-92	492
695	Porous nitrogen doped carbon sphere as high performance anode of sodium-ion battery. 2015 , 94, 888-894	130
694	Three-dimensional carbon foam supported tin oxide nanocrystallites with tunable size range: Sulfonate anchoring synthesis and high rate lithium storage properties. 2015 , 294, 208-215	26
693	Polystyrene-derived carbon with hierarchical macro/meso/microporous structure for high-rate lithium-ion batteries application. 2015 , 50, 6649-6655	19
692	Peanut shell derived hard carbon as ultralong cycling anodes for lithium and sodium batteries. 2015 , 176, 533-541	186
691	Trash to Treasure: Transforming Waste Polystyrene Cups into Negative Electrode Materials for Sodium Ion Batteries. 2015 , 3, 2153-2159	46
690	Electrospun pitch/polyacrylonitrile composite carbon nanofibers as high performance anodes for lithium-ion batteries. 2015 , 159, 341-344	31
689	Amorphous Sb ₂ S ₃ embedded in graphite: a high-rate, long-life anode material for sodium-ion batteries. 2015 , 51, 13205-8	113
688	VO ₂ /rGO nanorods as a potential anode for sodium- and lithium-ion batteries. 2015 , 3, 14750-14758	86
687	Hollow carbon-shell/carbon-nanorod arrays for high performance Li-ion batteries and supercapacitors. 2015 , 5, 7959-7963	14
686	Dopamine derived nitrogen-doped carbon sheets as anode materials for high-performance sodium ion batteries. 2015 , 91, 88-95	161
685	Na(+) intercalation pseudocapacitance in graphene-coupled titanium oxide enabling ultra-fast sodium storage and long-term cycling. 2015 , 6, 6929	834
684	Roll-to-roll fabrication of organic nanorod electrodes for sodium ion batteries. 2015 , 13, 537-545	73
683	2D hybrid anode based on SnS nanosheet bonded with graphene to enhance electrochemical performance for lithium-ion batteries. 2015 , 5, 46941-46946	61
682	Graphene-based nano-materials for lithium-sulfur battery and sodium-ion battery. 2015 , 15, 379-405	190
681	Hierarchical porous nitrogen-doped carbon nanosheets derived from silk for ultrahigh-capacity battery anodes and supercapacitors. <i>ACS Nano</i> , 2015 , 9, 2556-64	16.7 1164
680	Computational chemistry for graphene-based energy applications: progress and challenges. 2015 , 7, 6883-908	49
679	Sweet potato-derived carbon nanoparticles as anode for lithium ion battery. 2015 , 5, 40737-40741	52

678	An Amorphous Carbon Nitride Composite Derived from ZIF-8 as Anode Material for Sodium-Ion Batteries. 2015 , 8, 1856-61	76
677	Eggplant-derived microporous carbon sheets: towards mass production of efficient bifunctional oxygen electrocatalysts at low cost for rechargeable Zn-air batteries. 2015 , 51, 8841-4	87
676	High-Performance Sb/Sb ₂ O ₃ Anode Materials Using a Polypyrrole Nanowire Network for Na-Ion Batteries. 2015 , 11, 2885-92	95
675	Sodium-Ion Storage in Pyroprotein-Based Carbon Nanoplates. 2015 , 27, 6914-21	107
674	Review Practical Issues and Future Perspective for Na-Ion Batteries. 2015 , 162, A2538-A2550	479
673	A high performance sulfur-doped disordered carbon anode for sodium ion batteries. 2015 , 8, 2916-2921	429
672	Heterogeneous Nanostructures for Sodium Ion Batteries and Supercapacitors. 2015 , 1, 458-476	25
671	Chemically Crushed Wood Cellulose Fiber towards High-Performance Sodium-Ion Batteries. 2015 , 7, 23291-6	101
670	Facile synthesis of high performance hard carbon anode materials for sodium ion batteries. 2015 , 3, 20560-20564	64
669	Encapsulating selenium into macro-/micro-porous biochar-based framework for high-performance lithium-selenium batteries. 2015 , 95, 354-363	77
668	Enhanced cycling performances of hollow Sn compared to solid Sn in Na-ion battery. 2015 , 180, 227-233	36
667	Nitrogen-doped bamboo-like carbon nanotubes: promising anode materials for sodium-ion batteries. 2015 , 51, 16045-8	92
666	Fluorine-Doped Carbon Particles Derived from Lotus Petioles as High-Performance Anode Materials for Sodium-Ion Batteries. 2015 , 119, 21336-21344	128
665	Nitrogen-Rich Mesoporous Carbon as Anode Material for High-Performance Sodium-Ion Batteries. 2015 , 7, 27124-30	168
664	Trash to Treasure: From Harmful Algal Blooms to High-Performance Electrodes for Sodium-Ion Batteries. 2015 , 49, 12543-50	72
663	CNTs in situ attached to Fe ₂ O ₃ submicron spheres for enhancing lithium storage capacity. 2015 , 7, 340-50	24
662	Sustainable synthetic route for Fe ₂ O ₃ /C hybrid as anode material for lithium-ion batteries. 2015 , 44, 2150-6	13
661	Few-Layered SnS ₂ on Few-Layered Reduced Graphene Oxide as Na-Ion Battery Anode with Ultralong Cycle Life and Superior Rate Capability. 2015 , 25, 481-489	354

660	Multicompartmental Micro/Nanofibers Toward Fiber Based Energy Devices. 2016 , 6, 49-65	1
659	Sustainable Materials for Sustainable Energy Storage: Organic Na Electrodes. 2016 , 9,	54
658	Recent Progress in Design of Biomass-Derived Hard Carbons for Sodium Ion Batteries. 2016 , 2, 24	38
657	Nitrogen-Doped Banana Peel-Derived Porous Carbon Foam as Binder-Free Electrode for Supercapacitors. 2016 , 6,	44
656	Development and Characterization of High-Performance Sodium-Ion Cells based on Layered Oxide and Hard Carbon. 2016 , 3, 1124-1132	21
655	Self-Supported Nanotube Arrays of Sulfur-Doped TiO ₂ Enabling Ultrastable and Robust Sodium Storage. 2016 , 28, 2259-65	385
654	Biomass-Derived Porous Carbon with Micropores and Small Mesopores for High-Performance Lithium-Sulfur Batteries. 2016 , 22, 3239-3244	92
653	Nanoarchitected Array Electrodes for Rechargeable Lithium- and Sodium-Ion Batteries. 2016 , 6, 1502514	140
652	Ultra-Thick, Low-Tortuosity, and Mesoporous Wood Carbon Anode for High-Performance Sodium-Ion Batteries. 2016 , 6, 1600377	205
651	Enhanced Lithium Storage in Hierarchically Porous Carbon Derived from Waste Tea Leaves. 2016 , 6, 39099	30
650	Heteroatom enhanced sodium ion capacity and rate capability in a hydrogel derived carbon give record performance in a hybrid ion capacitor. 2016 , 23, 129-137	142
649	Mesoporous soft carbon as an anode material for sodium ion batteries with superior rate and cycling performance. 2016 , 4, 6472-6478	227
648	Reduced graphene oxide/carbon nanotubes sponge: A new high capacity and long life anode material for sodium-ion batteries. 2016 , 316, 132-138	63
647	Wild Fungus Derived Carbon Fibers and Hybrids as Anodes for Lithium-Ion Batteries. 2016 , 4, 2624-2631	33
646	Biomass derived carbon nanoparticle as anodes for high performance sodium and lithium ion batteries. 2016 , 26, 346-352	225
645	Three-dimensional polymer-derived ceramic/graphene paper as a Li-ion battery and supercapacitor electrode. 2016 , 6, 53894-53902	30
644	Interconnected foams of helical carbon nanofibers grown with ultrahigh yield for high capacity sodium ion battery anodes. 2016 , 107, 109-115	21
643	Antimony/Graphitic Carbon Composite Anode for High-Performance Sodium-Ion Batteries. 2016 , 8, 13871-8	46

642	Facile one-step synthesis of highly graphitized hierarchical porous carbon nanosheets with large surface area and high capacity for lithium storage. 2016 , 6, 51146-51152	2
641	Carbon Nanotubes Produced from Ambient Carbon Dioxide for Environmentally Sustainable Lithium-Ion and Sodium-Ion Battery Anodes. 2016 , 2, 162-8	116
640	Correlation Between Microstructure and Na Storage Behavior in Hard Carbon. 2016 , 6, 1501588	261
639	Tire-derived carbon composite anodes for sodium-ion batteries. 2016 , 316, 232-238	63
638	Improving the High-Voltage Li ₂ FeMn ₃ O ₈ Cathode by Chlorine Doping. 2016 , 8, 10820-5	13
637	Graphene-based nitrogen-doped carbon sandwich nanosheets: a new capacitive process controlled anode material for high-performance sodium-ion batteries. 2016 , 4, 8630-8635	145
636	Sodium-ion nanomachining to shape microcrystals into nanostructures and tune their properties. 2016 , 6, 42223-42228	1
635	Bio-derived hierarchically macro-meso-micro porous carbon anode for lithium/sodium ion batteries. 2016 , 329, 412-421	82
634	Sustainable carbon-sheets and their MnO ₂ hybrid for Li-ion batteries. 2016 , 6, 79066-79071	7
633	Electrochemical performance of fulvic acid-based electrospun hard carbon nanofibers as promising anodes for sodium-ion batteries. 2016 , 334, 170-178	38
632	MOF-derived, N-doped porous carbon coated graphene sheets as high-performance anodes for lithium-ion batteries. 2016 , 40, 9679-9683	24
631	3D graphene-carbon nanotube-bi-ickel ensembles as anodes in sodium-ion batteries. 2016 , 6, 99914-99918	5
630	SnS ₂ nanoplates as stable anodes for sodium ion and lithium ion batteries. 2016 , 31, 646-652	14
629	Unique elastic N-doped carbon nanofibrous microspheres with hierarchical porosity derived from renewable chitin for high rate supercapacitors. 2016 , 27, 482-491	229
628	The importance of solid electrolyte interphase formation for long cycle stability full-cell Na-ion batteries. 2016 , 27, 664-672	33
627	First-principles study of ternary graphite compounds cointercalated with alkali atoms (Li, Na, and K) and alkylamines towards alkali ion battery applications. 2016 , 324, 758-765	33
626	Hierarchically Porous N-Doped Carbon Nanosheets Derived From Grapefruit Peels for High-Performance Supercapacitors. 2016 , 1, 1441-1447	41
625	New Paradigms on the Nature of Solid Electrolyte Interphase Formation and Capacity Fading of Hard Carbon Anodes in Na-Ion Batteries. 2016 , 3, 1600449	48

624	Cathodic polarization suppressed sodium-ion full cell with a 3.3 V high-voltage. 2016 , 28, 216-223	76
623	In Situ Transmission Electron Microscopy Observation of Sodiation/Desodiation in a Long Cycle, High-Capacity Reduced Graphene Oxide Sodium-Ion Battery Anode. 2016 , 28, 6528-6535	59
622	Metal-organic framework-combustion: a new, cost-effective and one-pot technique to produce a porous Co ₃ V ₂ O ₈ microsphere anode for high energy lithium ion batteries. 2016 , 4, 14605-14613	56
621	Nitrogen-Doped Carbon Foams Synthesized from Banana Peel and Zinc Complex Template for Adsorption of CO ₂ , CH ₄ , and N ₂ . 2016 , 30, 7298-7309	38
620	Novel Metal Chalcogenide SnS ₂ as a High-Capacity Anode for Sodium-Ion Batteries. 2016 , 28, 8645-8650	97
619	Hard Carbon Fibers Pyrolyzed from Wool as High-Performance Anode for Sodium-Ion Batteries. 2016 , 68, 2579-2584	19
618	Sodium ion storage in reduced graphene oxide. 2016 , 214, 319-325	42
617	Wood-Derived Materials for Green Electronics, Biological Devices, and Energy Applications. 2016 , 116, 9305-74	802
616	Superior Lithium-Ion Storage at Room and Elevated Temperature in an Industrial Woodchip Derived Porous Carbon. 2016 , 55, 8706-8712	15
615	Half and full sodium-ion batteries based on maize with high-loading density and long-cycle life. 2016 , 8, 15497-504	27
614	Pinecone-like hierarchical anatase TiO ₂ bonded with carbon enabling ultrahigh cycling rates for sodium storage. 2016 , 4, 12591-12601	70
613	Recent Progress in Electrode Materials for Sodium-Ion Batteries. 2016 , 6, 1600943	686
612	Power from nature: designing green battery materials from electroactive quinone derivatives and organic polymers. 2016 , 4, 12370-12386	134
611	High Capacity of Hard Carbon Anode in Na-Ion Batteries Unlocked by PO _x Doping. 2016 , 1, 395-401	136
610	Lithium and sodium storage in highly ordered mesoporous nitrogen-doped carbons derived from honey. 2016 , 335, 20-30	71
609	High lithium and sodium anodic performance of nitrogen-rich ordered mesoporous carbon derived from alfalfa leaves by a ball-milling assisted template method. 2016 , 4, 17491-17502	24
608	High-performance supercapacitors and batteries derived from activated banana-peel with porous structures. 2016 , 222, 1257-1266	121
607	Tin phosphide-based anodes for sodium-ion batteries: synthesis via solvothermal transformation of Sn metal and phase-dependent Na storage performance. 2016 , 6, 26195	39

606	From Allergens to Battery Anodes: Nature-Inspired, Pollen Derived Carbon Architectures for Room- and Elevated-Temperature Li-ion Storage. 2016 , 6, 20290	30
605	Enhanced Performance by Enlarged Nano-pores of Holly Leaf-derived Lamellar Carbon for Sodium-ion Battery Anode. 2016 , 6, 26246	28
604	Apple-Biowaste-Derived Hard Carbon as a Powerful Anode Material for Na-Ion Batteries. 2016 , 3, 292-298	162
603	Porous heterostructured MXene/carbon nanotube composite paper with high volumetric capacity for sodium-based energy storage devices. 2016 , 26, 513-523	505
602	Valorization of banana peel: a biorefinery approach. 2016 , 32,	16
601	Multifunctional Nitrogen-Doped Loofah Sponge Carbon Blocking Layer for High-Performance Rechargeable Lithium Batteries. 2016 , 8, 15991-6001	52
600	Activated Microporous Carbon Derived from Almond Shells for High Energy Density Asymmetric Supercapacitors. 2016 , 8, 15288-96	68
599	Pyro-synthesis of a nanostructured NaTi ₂ (PO ₄) ₃ /C with a novel lower voltage plateau for rechargeable sodium-ion batteries. 2016 , 474, 88-92	19
598	Boric Acid Assisted Reduction of Graphene Oxide: A Promising Material for Sodium-Ion Batteries. 2016 , 8, 18860-6	77
597	Citrus-Peel-Derived, Nanoporous Carbon Nanosheets Containing Redox-Active Heteroatoms for Sodium-Ion Storage. 2016 , 8, 3175-81	68
596	A new sodium storage mechanism of TiO ₂ for sodium ion batteries. 2016 , 3, 464-468	29
595	Air-expansion induced hierarchically porous carbonaceous aerogels from biomass materials with superior lithium storage properties. 2016 , 6, 7591-7598	17
594	Layered nickel sulfide-reduced graphene oxide composites synthesized via microwave-assisted method as high performance anode materials of sodium-ion batteries. 2016 , 302, 202-209	97
593	Activated carbon aerogels with developed mesoporosity as high-rate anodes in lithium-ion batteries. 2016 , 51, 5565-5571	33
592	Black Phosphorus as a High-Capacity, High-Capability Negative Electrode for Sodium-Ion Batteries: Investigation of the Electrode/Electrolyte Interface. 2016 , 28, 1625-1635	199
591	Effect of surface modification on high-surface-area carbon nanosheets anode in sodium ion battery. 2016 , 227, 1-8	30
590	Excellent energy/power characteristics from a hybrid sodium ion capacitor based on identical carbon nanosheets in both electrodes. 2016 , 4, 5149-5158	144
589	Cube-shaped Porous Carbon Derived from MOF-5 as Advanced Material for Sodium-Ion Batteries. 2016 , 196, 413-421	92

588	Antimony Nanocrystals Encapsulated in Carbon Microspheres Synthesized by a Facile Self-Catalyzing Solvothermal Method for High-Performance Sodium-Ion Battery Anodes. 2016 , 8, 1337-43	59
587	Recycling of graphite anodes for the next generation of lithium ion batteries. 2016 , 46, 123-148	117
586	Preparation of nitrogen- and phosphorous co-doped carbon microspheres and their superior performance as anode in sodium-ion batteries. 2016 , 99, 556-563	189
585	Integration of inorganic nanostructures with polydopamine-derived carbon: tunable morphologies and versatile applications. 2016 , 8, 1770-88	54
584	Expanded graphitic materials prepared from micro- and nanometric precursors as anodes for sodium-ion batteries. 2016 , 187, 496-507	28
583	Carbonized-leaf Membrane with Anisotropic Surfaces for Sodium-ion Battery. 2016 , 8, 2204-10	124
582	Biomass derived hierarchical porous carbons as high-performance anodes for sodium-ion batteries. 2016 , 188, 103-110	171
581	Catalytic Effects of B/N-co-Doped Porous Carbon Incorporated with Ketjenblack Nanoparticles for All-Vanadium Redox Flow Batteries. 2016 , 163, A5144-A5149	45
580	Cotton derived porous carbon via an MgO template method for high performance lithium ion battery anodes. 2016 , 18, 2106-2114	104
579	Nitrogen-doped porous carbon derived from residuary shaddock peel: a promising and sustainable anode for high energy density asymmetric supercapacitors. 2016 , 4, 372-378	102
578	Graphene-based materials for electrochemical energy storage devices: Opportunities and challenges. 2016 , 2, 107-138	314
577	Carbon-Based Functional Materials Derived from Waste for Water Remediation and Energy Storage. 2017 , 29, 1605361	221
576	Anode-Free Sodium Battery through in Situ Plating of Sodium Metal. 2017 , 17, 1296-1301	177
575	Low temperature carbonization of cellulose nanocrystals for high performance carbon anode of sodium-ion batteries. 2017 , 33, 37-44	130
574	Insights into the Distinct Lithiation/Sodiation of Porous Cobalt Oxide by in Operando Synchrotron X-ray Techniques and Ab Initio Molecular Dynamics Simulations. 2017 , 17, 953-962	21
573	In situ growth of Sb ₂ S ₃ on multiwalled carbon nanotubes as high-performance anode materials for sodium-ion batteries. 2017 , 228, 436-446	83
572	Activated hard carbon from orange peel for lithium/sodium ion battery anode with long cycle life. 2017 , 701, 870-874	88
571	Kelp-derived hard carbons as advanced anode materials for sodium-ion batteries. 2017 , 5, 5761-5769	112

570	Effect of pyrolysis temperature of 3D graphene/carbon nanotubes anode materials on yield of carbon nanotubes and their electrochemical properties for Na-ion batteries. 2017 , 317, 793-799	18
569	Hard carbon anodes of sodium-ion batteries: undervalued rate capability. 2017 , 53, 2610-2613	126
568	MoO ₂ @MoS ₂ Nanoarchitectures for High-Loading Advanced Lithium-Ion Battery Anodes. 2017 , 34, 1600223	44
567	A Few-Layer SnS ₂ /Reduced Graphene Oxide Sandwich Hybrid for Efficient Sodium Storage. 2017 , 121, 3261-3269	99
566	Coordination of Surface-Induced Reaction and Intercalation: Toward a High-Performance Carbon Anode for Sodium-Ion Batteries. 2017 , 4, 1600500	64
565	Graphene-Based Phosphorus-Doped Carbon as Anode Material for High-Performance Sodium-Ion Batteries. 2017 , 34, 1600315	23
564	Tuning the Solid Electrolyte Interphase for Selective Li- and Na-Ion Storage in Hard Carbon. 2017 , 29, 1606860	119
563	Emerging Prototype Sodium-Ion Full Cells with Nanostructured Electrode Materials. 2017 , 13, 1604181	88
562	Pectin, Hemicellulose, or Lignin? Impact of the Biowaste Source on the Performance of Hard Carbons for Sodium-Ion Batteries. 2017 , 10, 2668-2676	97
561	Biomass-derived mesopore-dominant porous carbons with large specific surface area and high defect density as high performance electrode materials for Li-ion batteries and supercapacitors. 2017 , 36, 322-330	348
560	Flexible Paper-like Free-Standing Electrodes by Anchoring Ultrafine SnS Nanocrystals on Graphene Nanoribbons for High-Performance Sodium Ion Batteries. 2017 , 9, 15484-15491	84
559	SnBiSb alloys as anode materials for sodium ion batteries. 2017 , 5, 9661-9670	91
558	Synthesis of hard carbon from argan shells for Na-ion batteries. 2017 , 5, 9917-9928	151
557	Manipulating Adsorption/Insertion Mechanisms in Nanostructured Carbon Materials for High-Efficiency Sodium Ion Storage. 2017 , 7, 1700403	486
556	An advanced CoSe embedded within porous carbon polyhedra hybrid for high performance lithium-ion and sodium-ion batteries. 2017 , 325, 14-24	174
555	Evaluating the Storage Behavior of Superior Low-Cost Anode Material from Biomass for High-Rate Sodium-Ion Batteries. 2017 , 164, A1431-A1437	16
554	Low-Cost and High-Performance Hard Carbon Anode Materials for Sodium-Ion Batteries. 2017 , 2, 1687-1695	98
553	High-rate sodium ion anodes assisted by N-doped carbon sheets. 2017 , 1, 1130-1136	19

552	Research and application progress on key materials for sodium-ion batteries. 2017 , 1, 986-1006	55
551	Spinifex nanocellulose derived hard carbon anodes for high-performance sodium-ion batteries. 2017 , 1, 1090-1097	39
550	Boosting the rate capability of hard carbon with an ether-based electrolyte for sodium ion batteries. 2017 , 5, 9528-9532	105
549	Graphene nanowires anchored to 3D graphene foam via self-assembly for high performance Li and Na ion storage. 2017 , 37, 108-117	128
548	Solvation behavior of carbonate-based electrolytes in sodium ion batteries. 2016 , 19, 574-586	108
547	Free-standing, binder-free polyacrylonitrile/asphalt derived porous carbon fiber \square A high capacity anode material for sodium-ion batteries. 2017 , 189, 206-209	15
546	Biomass-derived porous carbon electrode modified with nanostructured nickel-cobalt hydroxide for high-performance supercapacitors. 2017 , 21, 2975-2984	16
545	Biomass-derived carbon electrode materials for supercapacitors. 2017 , 1, 1265-1281	198
544	Lithium and sodium ion capacitors with high energy and power densities based on carbons from recycled olive pits. 2017 , 359, 17-26	104
543	Controlling pseudographitic domain dimension of dandelion derived biomass carbon for excellent sodium-ion storage. 2017 , 358, 85-92	70
542	Mechanism of Na-Ion Storage in Hard Carbon Anodes Revealed by Heteroatom Doping. 2017 , 7, 1602894	240
541	Engineering biorefinery residues from loblolly pine for supercapacitor applications. 2017 , 120, 304-312	42
540	Facile fabrication of N/S-doped carbon nanotubes with Fe ₃ O ₄ nanocrystals enched for lasting synergy as efficient oxygen reduction catalysts. 2017 , 5, 13189-13195	44
539	Controlled synthesis of macroscopic three-dimensional hollow reticulate hard carbon as long-life anode materials for Na-ion batteries. 2017 , 716, 210-219	36
538	Extremely high-rate aqueous supercapacitor fabricated using doped carbon nanoflakes with large surface area and mesopores at near-commercial mass loading. 2017 , 10, 1767-1783	88
537	An All-Stretchable-Component Sodium-Ion Full Battery. 2017 , 29, 1700898	114
536	Sodium-ion batteries: present and future. 2017 , 46, 3529-3614	2356
535	A controlled red phosphorus@Ni ₃ P core@shell nanostructure as an ultralong cycle-life and superior high-rate anode for sodium-ion batteries. 2017 , 10, 1222-1233	146

534	NaV(PO) ₄ @nitrogen,sulfur-codoped 3D porous carbon enabling ultra-long cycle life sodium-ion batteries. 2017 , 9, 6048-6055	35
533	The Impact of Surface Chemistry on Bio-derived Carbon Performance as Supercapacitor Electrodes. 2017 , 46, 1628-1636	7
532	Carbon Anode Materials for Advanced Sodium-Ion Batteries. 2017 , 7, 1602898	649
531	Scalable synthesis of TiO ₂ crystallites embedded in bread-derived carbon matrix with enhanced lithium storage performance. 2017 , 28, 9206-9220	12
530	Walnut shell derived porous carbon for a symmetric all-solid-state supercapacitor. 2017 , 411, 170-176	80
529	Large-scale synthesis of ternary Sn ₅ SbP ₃ /C composite by ball milling for superior stable sodium-ion battery anode. 2017 , 235, 107-113	43
528	High Temperature Carbonized Grass as a High Performance Sodium Ion Battery Anode. 2017 , 9, 391-397	94
527	Natural biomass-derived carbons for electrochemical energy storage. 2017 , 88, 234-241	103
526	Recent progress in rational design of anode materials for high-performance Na-ion batteries. 2017 , 7, 64-114	180
525	Nature-Inspired Electrochemical Energy-Storage Materials and Devices. 2017 , 7, 1601709	91
524	Recent advances of electrode materials for low-cost sodium-ion batteries towards practical application for grid energy storage. 2017 , 7, 130-151	351
523	Laser Synthesis of Hard Carbon for Anodes in Na-Ion Battery. 2017 , 2, 1600227	15
522	A sustainable synthesis of biomass carbon sheets as excellent performance sodium ion batteries anode. 2017 , 21, 1305-1312	29
521	The porous carbon derived from water hyacinth with well-designed hierarchical structure for supercapacitors. 2017 , 366, 270-277	43
520	Tremella-like N,O-codoped hierarchically porous carbon nanosheets as high-performance anode materials for high energy and ultrafast Na-ion capacitors. 2017 , 41, 285-292	124
519	Ni P@Carbon Core-Shell Nanoparticle-Arched 3D Interconnected Graphene Aerogel Architectures as Anodes for High-Performance Sodium-Ion Batteries. 2017 , 13, 1702138	96
518	Capacitance-enhanced sodium-ion storage in nitrogen-rich hard carbon. 2017 , 5, 22186-22192	59
517	Self-assembly synthesis of nitrogen-doped mesoporous carbons used as high-performance electrode materials in lithium-ion batteries and supercapacitors. 2017 , 41, 12901-12909	16

516	Pinecone biomass-derived hard carbon anodes for high-performance sodium-ion batteries. 2017 , 7, 41504-41518	18
515	Self-doped carbon architectures with heteroatoms containing nitrogen, oxygen and sulfur as high-performance anodes for lithium- and sodium-ion batteries. 2017 , 251, 396-406	74
514	Carbonized Enteromorpha prolifera with porous architecture and its polyaniline composites as high-performance electrode materials for supercapacitors. 2017 , 802, 15-21	19
513	Tailored Carbon Anodes Derived from Biomass for Sodium-Ion Storage. 2017 , 5, 8720-8728	61
512	Nanotubular Hard Carbon Derived from Renewable Natural Seed Gel for High Performance Sodium-Ion Battery Anode. 2017 , 2, 6909-6915	6
511	High-yield humic acid-based hard carbons as promising anode materials for sodium-ion batteries. 2017 , 123, 727-734	47
510	Heteroatom facilitated preparation of electrodes for sodium ion batteries. 2017 , 7, 12659-12662	3
509	Densely-stacked N-doped porous carbon monolith derived from sucrose for high-volumetric energy storages. 2017 , 251, 263-269	3
508	Advanced Nanostructured Anode Materials for Sodium-Ion Batteries. 2017 , 13, 1701835	149
507	Graphdiyne Nanowalls as Anode for Lithium-Ion Batteries and Capacitors Exhibit Superior Cyclic Stability. 2017 , 253, 506-516	56
506	A Catalytic Microwave Process for Superfast Preparation of High-Quality Reduced Graphene Oxide. 2017 , 129, 15883-15888	13
505	A Catalytic Microwave Process for Superfast Preparation of High-Quality Reduced Graphene Oxide. 2017 , 56, 15677-15682	60
504	Ultra-High Pyridinic N-Doped Porous Carbon Monolith Enabling High-Capacity K-Ion Battery Anodes for Both Half-Cell and Full-Cell Applications. 2017 , 29, 1702268	281
503	Hollow MXene Spheres and 3D Macroporous MXene Frameworks for Na-Ion Storage. 2017 , 29, 1702410	465
502	Removal of organic solvents/oils using carbon aerogels derived from waste durian shell. 2017 , 78, 351-358	39
501	P2-type transition metal oxides for high performance Na-ion battery cathodes. 2017 , 5, 18214-18220	66
500	High rate and long cycle life porous carbon nanofiber paper anodes for potassium-ion batteries. 2017 , 5, 19237-19244	159
499	Aerosol synthesis of trivalent titanium doped titania/carbon composite microspheres with superior sodium storage performance. 2017 , 10, 4351-4359	38

498	High performance red phosphorus electrode in ionic liquid-based electrolyte for Na-ion batteries. 2017 , 363, 404-412	41
497	Hard Carbon Wrapped NaV(PO) ₄ C Porous Composite Extending Cycling Lifespan for Sodium-Ion Batteries. 2017 , 9, 44485-44493	66
496	Buffer layer enhanced stability of sodium-ion storage. 2017 , 369, 138-145	23
495	A green route to synthesize low-cost and high-performance hard carbon as promising sodium-ion battery anodes from sorghum stalk waste. 2017 , 2, 310-315	42
494	3D free-standing nitrogen-doped reduced graphene oxide aerogel as anode material for sodium ion batteries with enhanced sodium storage. 2017 , 7, 4886	64
493	Nutty Carbon: Morphology Replicating Hard Carbon from Walnut Shell for Na Ion Battery Anode. 2017 , 2, 3601-3609	29
492	Sodium Carboxymethylcellulose Derived Oxygen-Rich Porous Carbon Anodes for High-Performance Lithium/Sodium-Ion Batteries. 2017 , 4, 500-507	11
491	Nitrogen-self-doped mesoporous carbons synthesized by the direct carbonization of ferric ammonium citrate for high-performance supercapacitors. 2017 , 21, 515-524	4
490	Large-Area Carbon Nanosheets Doped with Phosphorus: A High-Performance Anode Material for Sodium-Ion Batteries. 2017 , 4, 1600243	356
489	Exceptional energy and new insight with a sodium-selenium battery based on a carbon nanosheet cathode and a pseudographite anode. 2017 , 10, 153-165	155
488	Rape seed shuck derived-lamellar hard carbon as anodes for sodium-ion batteries. 2017 , 695, 632-637	55
487	The mechanism of the sodiation and desodiation in Super P carbon electrode for sodium-ion battery. 2017 , 340, 14-21	29
486	Ultrathin Surface Coating Enables the Stable Sodium Metal Anode. 2017 , 7, 1601526	238
485	Insights into the Na ⁺ Storage Mechanism of Phosphorus-Functionalized Hard Carbon as Ultrahigh Capacity Anodes. 2018 , 8, 1702781	124
484	A high energy and power sodium-ion hybrid capacitor based on nitrogen-doped hollow carbon nanowires anode. 2018 , 382, 116-121	30
483	Carbon nanoparticle-based three-dimensional binder-free anode for rechargeable alkali-ion batteries. 2018 , 8, 29-36	12
482	Effects of CeO ₂ nanoparticles on electrochemical properties of carbon/CeO ₂ composites. 2018 , 446, 36-46	21
481	Constructing graphene-like nanosheets on porous carbon framework for promoted rate performance of Li-ion and Na-ion storage. 2018 , 271, 92-102	31

480	A renewable natural cotton derived and nitrogen/sulfur co-doped carbon as a high-performance sodium ion battery anode. 2018 , 8, 37-44	44
479	Room and elevated temperature lithium-ion storage in structurally submicron carbon spheres with mechanistic. 2018 , 134, 334-344	6
478	Tailoring graphitic nanostructures in hard carbons as anode materials achieving efficient and ultrafast sodium storage. 2018 , 53, 10313-10326	3
477	N-rich carbon coated CoSnO ₃ derived from in situ construction of a CoMOF with enhanced sodium storage performance. 2018 , 6, 4839-4847	70
476	Novel fabrication of N-doped hierarchically porous carbon with exceptional potassium storage properties. 2018 , 131, 79-85	111
475	Long cycle life and high rate sodium-ion chemistry for hard carbon anodes. 2018 , 13, 274-282	93
474	Scalable synthesis of NiMoO ₄ microspheres with numerous empty nanovoids as an advanced anode material for Li-ion batteries. 2018 , 379, 278-287	54
473	Green and facile fabrication of hierarchical N-doped porous carbon from water hyacinths for high performance lithium/sodium ion batteries. 2018 , 2, 855-861	28
472	Silicon oxycarbide produced from silicone oil for high-performance anode material in sodium ion batteries. 2018 , 338, 126-136	42
471	Porous Ti ₃ C ₂ T _x MXene for Ultrahigh-Rate Sodium-Ion Storage with Long Cycle Life. 2018 , 1, 505-511	88
470	Challenges in Developing Electrodes, Electrolytes, and Diagnostics Tools to Understand and Advance Sodium-Ion Batteries. 2018 , 8, 1702403	164
469	Elucidation of the Sodium-Storage Mechanism in Hard Carbons. 2018 , 8, 1703217	138
468	Carbon and Carbon Hybrid Materials as Anodes for Sodium-Ion Batteries. 2018 , 13, 1248-1265	28
467	Readiness Level of Sodium-Ion Battery Technology: A Materials Review. 2018 , 2, 1700153	103
466	Pore-size-tunable nitrogen-doped polymeric frameworks for high performance sodium ion storage and supercapacitors. 2018 , 25, 1407-1416	3
465	Self-Powered Low-Platinum Nanorod Alloy Monoelectrodes for Rain Energy Harvest. 2018 , 6, 1606-1609	1
464	Electrochemical performances of lithium and sodium ion batteries based on carbon materials. 2018 , 61, 368-380	36
463	Microporous ceramic coated separators with superior wettability for enhancing the electrochemical performance of sodium-ion batteries. 2018 , 376, 184-190	30

462	Direct chitin conversion to N-doped amorphous carbon nanofibers for high-performing full sodium-ion batteries. 2018 , 45, 220-228	134
461	A porous biomass-derived anode for high-performance sodium-ion batteries. 2018 , 129, 695-701	102
460	Castanea mollissima shell-derived porous carbons as metal-free catalysts for highly efficient dehydrogenation of propane to propylene. 2018 , 316, 214-222	21
459	Tuning lattice spacing in titanate nanowire arrays for enhanced sodium storage and long-term stability. 2018 , 45, 337-345	26
458	Novel two-step activation of biomass-derived carbon for highly sensitive electrochemical determination of acetaminophen. 2018 , 259, 50-58	42
457	High capacity hard carbon derived from lotus stem as anode for sodium ion batteries. 2018 , 378, 331-337	104
456	Defect-rich N-doped porous carbon derived from soybean for high rate lithium-ion batteries. 2018 , 451, 298-305	41
455	Multidimensional Evolution of Carbon Structures Underpinned by Temperature-Induced Intermediate of Chloride for Sodium-Ion Batteries. 2018 , 5, 1800080	86
454	Self-assembled Mn-doped MoS ₂ hollow nanotubes with significantly enhanced sodium storage for high-performance sodium-ion batteries. 2018 , 5, 1587-1593	29
453	Carbon/Li ₄ Ti ₅ O ₁₂ Composite Spheres Prepared Using Chinese Yam as Carbon Source with Ultrahigh Capacity as Anode Materials for Lithium Ion Batteries. 2018 , 6, 2036-2044	7
452	Internal structure [Na storage mechanisms [Electrochemical performance relations in carbons. 2018 , 97, 170-203	72
451	Self-heating-induced healing of lithium dendrites. 2018 , 359, 1513-1516	286
450	Silicon-Based Composite Negative Electrode Prepared from Recycled Silicon-Slicing Slurries and Lignin/Lignocellulose for Li-Ion Cells. 2018 , 6, 4759-4766	30
449	Synergic antimony[Biobium pentoxide nanomeshes for high-rate sodium storage. 2018 , 6, 6225-6232	16
448	Sodium-Ion Batteries (a Review). 2018 , 54, 113-152	57
447	Low-Defect and Low-Porosity Hard Carbon with High Coulombic Efficiency and High Capacity for Practical Sodium Ion Battery Anode. 2018 , 8, 1703238	262
446	Facile synthesis and excellent catalytic performance of nitrogen-doped porous carbons derived from banana peel towards oxygen reduction reaction. 2018 , 103, 63-69	8
445	Orderly meso-perforated spherical and apple-shaped 3D carbon microstructures for high-energy supercapacitors and high-capacity Li-ion battery anodes. 2018 , 6, 6422-6434	11

444	Design of pomegranate-like clusters with NiS ₂ nanoparticles anchored on nitrogen-doped porous carbon for improved sodium ion storage performance. 2018 , 6, 6595-6605	110
443	Walnut-Like Multicore-Shell MnO Encapsulated Nitrogen-Rich Carbon Nanocapsules as Anode Material for Long-Cycling and Soft-Packed Lithium-Ion Batteries. 2018 , 28, 1800003	148
442	From Charge Storage Mechanism to Performance: A Roadmap toward High Specific Energy Sodium-Ion Batteries through Carbon Anode Optimization. 2018 , 8, 1703268	244
441	Sn-MOF derived bimodal-distributed SnO ₂ nanosphere as a high performance anode of sodium ion batteries with high gravimetric and volumetric capacities. 2018 , 99, 45-51	40
440	Sodium-Ion Battery Anodes Comprising Carbon Sheets: Stable Cycling in Half- and Full-Pouch Cell Configuration. 2018 , 6, 213-220	12
439	Enhanced sodium storage performance in flexible free-standing multichannel carbon nanofibers with enlarged interlayer spacing. 2018 , 11, 2256-2264	21
438	Hard carbon derived from corn straw piths as anode materials for sodium ion batteries. 2018 , 24, 1075-1081	30
437	Sodium storage mechanism of N, S co-doped nanoporous carbon: Experimental design and theoretical evaluation. 2018 , 11, 274-281	83
436	Baby Diaper-Inspired Construction of 3D Porous Composites for Long-Term Lithium-Ion Batteries. 2018 , 28, 1704440	60
435	Carbons from biomass precursors as anode materials for lithium ion batteries: New insights into carbonization and graphitization behavior and into their correlation to electrochemical performance. 2018 , 128, 147-163	113
434	Insights on the Na ⁺ ion storage mechanism in hard carbon: Discrimination between the porosity, surface functional groups and defects. 2018 , 44, 327-335	154
433	Carbon with Expanded and Well-Developed Graphene Planes Derived Directly from Condensed Lignin as a High-Performance Anode for Sodium-Ion Batteries. 2018 , 10, 569-581	48
432	Space-confinement of MnO nanosheets in densely stacked graphene: Ultra-high volumetric capacity and rate performance for lithium-ion batteries. 2018 , 12, 94-102	58
431	Process optimization for producing hierarchical porous bamboo-derived carbon materials with ultrahigh specific surface area for lithium-sulfur batteries. 2018 , 738, 16-24	45
430	Expanded biomass-derived hard carbon with ultra-stable performance in sodium-ion batteries. 2018 , 6, 1513-1522	130
429	Enhanced Capacity and Rate Capability of Nitrogen/Oxygen Dual-Doped Hard Carbon in Capacitive Potassium-Ion Storage. 2018 , 30, 1700104	499
428	Auto-generated iron chalcogenide microcapsules ensure high-rate and high-capacity sodium-ion storage. 2018 , 10, 800-806	24
427	Commercial activated carbon as a novel precursor of the amorphous carbon for high-performance sodium-ion batteries anode. 2018 , 129, 85-94	49

426	Exploiting Biological Systems: Toward Eco-Friendly and High-Efficiency Rechargeable Batteries. 2018 , 2, 61-75	74
425	Rice husk-derived hard carbons as high-performance anode materials for sodium-ion batteries. 2018 , 127, 658-666	204
424	Organic materials for rechargeable sodium-ion batteries. 2018 , 21, 60-78	152
423	Sodium-Ion Battery Materials and Electrochemical Properties Reviewed. 2018 , 8, 1800079	280
422	Self-assembled 3D flower-like Fe ₃ O ₄ /C architecture with superior lithium ion storage performance. 2018 , 6, 24940-24948	62
421	Bioresource derived porous carbon from cottonseed hull for removal of triclosan and electrochemical application.. 2018 , 8, 42405-42414	11
420	Iron-Containing Carbon Nanocomposites Based on Cellulose. 2018 , 50, 154-160	3
419	Tailoring Hollow Nanostructures by Catalytic Strategy for Superior Lithium and Sodium Storage. 2018 , 10, 43953-43961	8
418	Honeycomb-like Hard Carbon Derived from Pine Pollen as High-Performance Anode Material for Sodium-Ion Batteries. 2018 , 10, 42796-42803	80
417	Directional Flow-Aided Sonochemistry Yields Graphene with Tunable Defects to Provide Fundamental Insight on Sodium Metal Plating Behavior. <i>ACS Nano</i> , 2018 , 12, 12255-12268	16.7 39
416	Marriage of an Ether-Based Electrolyte with Hard Carbon Anodes Creates Superior Sodium-Ion Batteries with High Mass Loading. 2018 , 10, 41380-41388	44
415	Network Carbon with Macropores from Apple Pomace for Stable and High Areal Capacity of Sodium Storage. 2018 , 6, 14751-14758	29
414	C-Plasma of Hierarchical Graphene Survives SnS Bundles for Ultrastable and High Volumetric Na-Ion Storage. 2018 , 30, e1804833	98
413	Heteroatoms (O, N)-doped porous carbon derived from bamboo shoots shells for high performance supercapacitors. 2018 , 29, 20991-21001	16
412	Hollow Ni-CoSe Embedded in Nitrogen-Doped Carbon Nanocomposites Derived from Metal-Organic Frameworks for High-Rate Anodes. 2018 , 10, 38845-38852	34
411	Complete Utilization of Waste Pomegranate Peels To Produce a Hydrocolloid, Punicalagin Rich Phenolics, and a Hard Carbon Electrode. 2018 , 6, 16363-16374	24
410	Sn-C bonding riveted SnSe nanoplates vertically grown on nitrogen-doped carbon nanobelts for high-performance sodium-ion battery anodes. 2018 , 54, 322-330	100
409	Simultaneous removal of dye and heavy metal by banana peels derived hierarchically porous carbons. 2018 , 93, 543-553	37

408	An Attempt to Improve Electrochemical Performances of Lignin-Based Hard Carbon Microspheres Anodes in Sodium-Ion Batteries by Using Hexamethylenetetramine. 2018 , 3, 9518-9525	8
407	Exploring Sodium-Ion Storage Mechanism in Hard Carbons with Different Microstructure Prepared by Ball-Milling Method. 2018 , 14, e1802694	74
406	Self-Nitrogen-Doped Carbon from Plant Waste as an Oxygen Electrode Material with Exceptional Capacity and Cycling Stability for Lithium-Oxygen Batteries. 2018 , 10, 32212-32219	27
405	Curly hard carbon derived from pistachio shells as high-performance anode materials for sodium-ion batteries. 2018 , 53, 12334-12351	34
404	Mesoporous MoSe ₂ /C composite as anode material for sodium/lithium ion batteries. 2018 , 823, 67-72	30
403	Surface Functionalization of Carbon Architecture with Nano-MnO for Effective Polysulfide Confinement in Lithium-Sulfur Batteries. 2018 , 11, 2375-2381	31
402	Bean dregs-derived hierarchical porous carbons as metal-free catalysts for efficient dehydrogenation of propane to propylene. 2018 , 93, 3410-3417	8
401	Facile synthesis of free-standing, flexible hard carbon anode for high-performance sodium ion batteries using graphene as a multi-functional binder. 2018 , 137, 475-483	37
400	Superior lithium/potassium storage capability of nitrogen-rich porous carbon nanosheets derived from petroleum coke. 2018 , 6, 12551-12558	64
399	Hard carbons issued from date palm as efficient anode materials for sodium-ion batteries. 2018 , 137, 165-173	70
398	Activated porous carbons derived from the Indonesian snake fruit peel as anode materials for sodium ion batteries. 2018 , 217, 254-261	32
397	Review of Hybrid Ion Capacitors: From Aqueous to Lithium to Sodium. 2018 , 118, 6457-6498	504
396	Impact of the Acid Treatment on Lignocellulosic Biomass Hard Carbon for Sodium-Ion Battery Anodes. 2018 , 11, 3276-3285	31
395	Mo ₂ C-induced solid-phase synthesis of ultrathin MoS ₂ nanosheet arrays on bagasse-derived porous carbon frameworks for high-energy hybrid sodium-ion capacitors. 2018 , 6, 14742-14751	56
394	High Capacity and High Efficiency Maple Tree-Biomass-Derived Hard Carbon as an Anode Material for Sodium-Ion Batteries. 2018 , 11,	23
393	Edge-Rich Quasi-Mesoporous Nitrogen-Doped Carbon Framework Derived from Palm Tree Bark Hair for Electrochemical Applications. 2018 , 10, 27047-27055	31
392	Three-dimensional carbon framework as a promising anode material for high performance sodium ion storage devices. 2018 , 353, 453-459	41
391	Designing MOFs-Derived FeS@Carbon Composites for High-Rate Sodium Ion Storage with Capacitive Contributions. 2018 , 10, 33097-33104	94

390	Three-Dimensional SnS Decorated Carbon Nano-Networks as Anode Materials for Lithium and Sodium Ion Batteries. 2018 , 8,	17
389	Expanding Interlayer Spacing of Hard Carbon by Natural K Doping to Boost Na-Ion Storage. 2018 , 10, 27030-27038	64
388	Temperature effect on the synthesis of lignin-derived carbons for electrochemical energy storage applications. 2018 , 397, 296-306	24
387	Nitrogen-doped carbon-coated MnO nanoparticles anchored on interconnected graphene ribbons for high-performance lithium-ion batteries. 2018 , 397, 325-333	34
386	N/S Co-doped Carbon Derived From Cotton as High Performance Anode Materials for Lithium Ion Batteries. 2018 , 6, 78	22
385	Biowaste Lignin-Based Carbonaceous Materials as Anodes for Na-Ion Batteries. 2018 , 165, A1400-A1408	18
384	Complete hollow ZnFe ₂ O ₄ nanospheres with huge internal space synthesized by a simple solvothermal method as anode for lithium ion batteries. 2018 , 462, 955-962	24
383	Biomass-derived nitrogen/oxygen co-doped hierarchical porous carbon with a large specific surface area for ultrafast and long-life sodium-ion batteries. 2018 , 462, 713-719	27
382	Production of high surface area activated carbons for energy storage applications using agricultural biomass residue from a C5-biorefinery. 2018 ,	2
381	Simple method to construct three-dimensional porous carbon for electrochemical energy storage. 2018 , 10, 15842-15853	8
380	Recent Advances in Sodium-Ion Battery Materials. 2018 , 1, 294-323	154
379	Nitrogen-doped hierarchically porous carbonaceous nanotubes for lithium ion batteries. 2018 , 352, 964-971	20
378	A novel oxygen vacancy introduced microstructural reconstruction of SnO ₂ -graphene nanocomposite: Demonstration of enhanced electrochemical performance for sodium storage. 2018 , 282, 351-361	18
377	Stable CarbonSelenium Bonds for Enhanced Performance in Tremella-Like 2D Chalcogenide Battery Anode. 2018 , 8, 1800927	52
376	Hard carbons derived from green phenolic resins for Na-ion batteries. 2018 , 139, 248-257	80
375	Reduced Graphene Oxide Using an Environmentally Friendly Banana Extracts. 2019 , 4, 2143-2151	0
374	Defective Carbon Nanosheets Derived from Syzygium cumini Leaves for Electrochemical Energy-Storage. 2019 , 4, 9079-9083	33
373	Carbon Anodes for Nonaqueous Alkali Metal-Ion Batteries and Their Thermal Safety Aspects. 2019 , 9, 1900550	68

372	P-Doped Hive-like Carbon Derived from Pinecone Biomass as Efficient Catalyst for LiO ₂ Battery. 2019 , 7, 14161-14169	22
371	N, P dual-doped carbon nanotube with superior high-rate sodium storage performance for sodium ion batteries. 2019 , 850, 113392	17
370	Valorizing low cost and renewable lignin as hard carbon for Na-ion batteries: Impact of lignin grade. 2019 , 153, 634-647	37
369	Extended Adsorption-Insertion Model: A New Insight into the Sodium Storage Mechanism of Hard Carbons. 2019 , 9, 1901351	165
368	Rapid Sodium-Ion Storage in Hard Carbon Anode Material Derived from Ganoderma lucidum Residue with Inherent Open Channels. 2019 , 7, 14841-14847	16
367	An effective route for manufacturing a mushroom-derived carbon/SnO ₂ /C functional composite. 2019 , 43, 12503-12510	2
366	Engineering the trap effect of residual oxygen atoms and defects in hard carbon anode towards high initial Coulombic efficiency. 2019 , 64, 103937	57
365	Chitosan derived N-doped carbon coated SnO ₂ nanocomposite anodes for Na-ion batteries. 2019 , 341, 115035	6
364	Fast Redox Kinetics in Bi-Heteroatom Doped 3D Porous Carbon Nanosheets for High-Performance Hybrid Potassium-Ion Battery Capacitors. 2019 , 9, 1901533	119
363	Insights into pseudographite-structured hard carbon with stabilized performance for high energy K-ion storage. 2019 , 444, 227310	29
362	Oxygen Functional Group Modification of Cellulose-Derived Hard Carbon for Enhanced Sodium Ion Storage. 2019 , 7, 18554-18565	31
361	Regulating Pore Structure of Hierarchical Porous Waste Cork-Derived Hard Carbon Anode for Enhanced Na Storage Performance. 2019 , 9, 1902852	102
360	A Green and Low-Cost Approach to Synthesize Bamboo Charcoal@Si@C Composites as Anode for High-Performance Li-Ion Batteries. 2019 , 166, A3631-A3638	3
359	Quinone-Based Redox Supercapacitor Using Highly Conductive Hard Carbon Derived from Oak Wood. 2019 , 3, 1900083	9
358	Revealing the sodium storage of surface C O structure in high performance Na-ion battery. 2019 , 854, 113554	3
357	Regulation of MMP9 expression by human arylamine N-acetyltransferase (NAT1) via Hif-1a. 2019 , 30, iii58	
356	Hard carbon derived from sepals of Palmyra palm fruit calyx as an anode for sodium-ion batteries. 2019 , 438, 227008	26
355	Graphene as Vehicle for Ultrafast Lithium Ion Capacitor Development Based on Recycled Olive Pit Derived Carbons. 2019 , 166, A2840-A2848	4

354	Correlation of Structure and Performance of Hard Carbons as Anodes for Sodium Ion Batteries. 2019 , 31, 7288-7299	43
353	Biomorphic carbon derived from corn husk as a promising anode materials for potassium ion battery. 2019 , 324, 134902	31
352	Metal-Organic Framework/Polythiophene Derivative: Neuronlike S-Doped Carbon 3D Structure with Outstanding Sodium Storage Performance. 2019 , 11, 37850-37858	12
351	Surface functionalization to abate the irreversible capacity of hard carbons derived from grapefruit peels for sodium-ion batteries. 2019 , 326, 134973	16
350	N-doped porous hard-carbon derived from recycled separators for efficient lithium-ion and sodium-ion batteries. 2019 , 3, 717-722	27
349	Low-Temperature Growth of Hard Carbon with Graphite Crystal for Sodium-Ion Storage with High Initial Coulombic Efficiency: A General Method. 2019 , 9, 1803648	74
348	Title Confined Sn Nanoparticles into 3D Porous Carbon Skeleton for High Performance Lithium Storage. 2019 , 4, 1285-1291	3
347	Sodium storage in hard carbon with curved graphene platelets as the basic structural units. 2019 , 7, 3327-3335	76
346	Exploring room- and low-temperature performance of hard carbon material in half and full Na-ion batteries. 2019 , 316, 60-68	15
345	Electrode Materials for High-Performance Sodium-Ion Batteries. 2019 , 12,	27
344	Microtubular carbon fibers derived from bamboo and wood as sustainable anodes for lithium and sodium ion batteries. 2019 , 26, 1821-1830	19
343	Ternary Anode Design for Sustainable Battery Technology: An Off-Stoichiometric Sn/SnSiO _x +2@C Composite Recycled from Biomass. 2019 ,	2
342	Facile and large-scalable synthesis of low cost hard carbon anode for sodium-ion batteries. 2019 , 14, 102404	35
341	Advanced Carbon Materials for Electrochemical Energy Storage. 2019 , 385-418	1
340	Carbon Nanosheet Frameworks Derived from Pine Cone Shells as Sodium-Ion Battery Anodes. 2019 , 956, 3-11	3
339	Extended flat voltage profile of hard carbon synthesized using a two-step carbonization approach as an anode in sodium ion batteries. 2019 , 430, 157-168	28
338	Ion- and air-tailored micro-honeycomb structures for superior Na-ion storage in coir-derived hard carbon. 2019 , 43, 10449-10457	4
337	Carbon-Dots-Derived 3D Highly Nitrogen-Doped Porous Carbon Framework for High-Performance Lithium Ion Storage. 2019 , 7, 9848-9856	25

336	Nanostructures and Nanomaterials for Sodium Batteries. 2019 , 265-312	1
335	Honeycomb-like Porous Carbon with Nanographitic Domains, Supported on Graphene Layers: Applicability for Lithium/Sodium Storage. 2019 , 7, 10986-10994	17
334	Facile synthesis of phosphorus-doped carbon under tuned temperature with high lithium and sodium anodic performances. 2019 , 551, 61-71	8
333	Nanostructures and Nanomaterials for Batteries. 2019 ,	9
332	Heteroatoms (N-, Si-) self-doped spongy carbon derived from wild fungus sharia bambusicola as electrode materials for supercapacitors. 2019 , 525, 110383	2
331	Rational Design of Carbon Nanomaterials for Electrochemical Sodium Storage and Capture. 2019 , 31, e1803444	74
330	Sulfur and nitrogen dual-doped porous carbon nanosheet anode for sodium ion storage with a self-template and self-porogen method. 2019 , 481, 473-483	10
329	Hydrophilic binder interface interactions inducing inadhesion and capacity collapse in sodium-ion battery. 2019 , 427, 62-69	7
328	Emerging applications of biochar-based materials for energy storage and conversion. 2019 , 12, 1751-1779	265
327	Alkali-induced 3D crinkled porous Ti ₃ C ₂ MXene architectures coupled with NiCoP bimetallic phosphide nanoparticles as anodes for high-performance sodium-ion batteries. 2019 , 12, 2422-2432	171
326	Controlling carbon-oxygen double bond and pseudographitic structure in shaddock peel derived hard carbon for enhanced sodium storage properties. 2019 , 313, 109-115	22
325	Microporous and hollow carbon spheres derived from soft drinks: Promising CO ₂ separation materials. 2019 , 286, 199-206	9
324	Materials by Design: Tailored Morphology and Structures of Carbon Anodes for Enhanced Battery Safety. 2019 , 11, 13334-13342	13
323	Carbon Anode Materials for Sodium-Ion Batteries. 2019 , 1-86	
322	Furfuryl alcohol derived high-end carbons for ultrafast dual carbon lithium ion capacitors. 2019 , 304, 437-446	22
321	Hard carbons derived from waste tea bag powder as anodes for sodium ion battery. 2019 , 34, 515-524	14
320	Synthesis of novel hard mesoporous carbons and their applications as anodes for Li and Na ion batteries. 2019 , 147, 214-226	26
319	Apricot shell derived hard carbons and their tin oxide composites as anode materials for sodium-ion batteries. 2019 , 788, 1093-1102	21

318	Carbonaceous Anodes Derived from Sugarcane Bagasse for Sodium-Ion Batteries. 2019 , 12, 2302-2309	27
317	Large-scale synthesis of nitrogen-rich hierarchically porous carbon as anode for lithium-ion batteries with high capacity and rate capability. 2019 , 306, 339-349	18
316	Catalytic Synthesis of Hard/Soft Carbon Hybrids with Heteroatom Doping for Enhanced Sodium Storage. 2019 , 4, 3551-3558	3
315	Lotus Seedpod-Derived Hard Carbon with Hierarchical Porous Structure as Stable Anode for Sodium-Ion Batteries. 2019 , 11, 12554-12561	84
314	Facile synthesis of N-doped activated carbon derived from cotton and CuCo ₂ O ₄ nanoneedle arrays electrodes for all-solid-state asymmetric supercapacitor. 2019 , 30, 9877-9887	11
313	Sodium Metal Anodes: Emerging Solutions to Dendrite Growth. 2019 , 119, 5416-5460	309
312	Catalytic Pyroprotein Seed Layers for Sodium Metal Anodes. 2019 , 11, 12401-12407	18
311	MoSe ₂ nanosheets embedded in mesoporous carbon as anode materials for sodium ion batteries. 2019 , 25, 3143-3152	5
310	Large-Scale Fabrication of Egg-Carton-Inspired Bi/C Composite toward High Volumetric Capacity and Long-Life Lithium Ion Batteries. 2019 , 7, 6033-6042	22
309	Coffee grounds-derived carbon as high performance anode materials for energy storage applications. 2019 , 97, 178-188	19
308	A N/S-codoped disordered carbon with enlarged interlayer distance derived from cirsiium setosum as high-performance anode for sodium ion batteries. 2019 , 30, 21323-21331	0
307	Chemical-enzymatic fractionation to unlock the potential of biomass-derived carbon materials for sodium ion batteries. 2019 , 7, 26954-26965	24
306	High-performance sodium-ion batteries with a hard carbon anode: transition from the half-cell to full-cell perspective. 2019 , 11, 22196-22205	44
305	A graphite-modified natural stibnite mineral as a high-performance anode material for sodium-ion storage.. 2019 , 9, 28953-28960	11
304	Superior electrochemical performance of sodium-ion full-cell using poplar wood derived hard carbon anode. 2019 , 18, 269-279	56
303	Fe ₂ O ₃ anchored on porous N doped carbon derived from green microalgae via spray pyrolysis as anode materials for lithium ion batteries. 2019 , 69, 39-47	19
302	Enhanced Interfacial Kinetics of Carbon Monolith Boosting Ultrafast Na-Storage. 2019 , 15, e1804158	14
301	Lithium Ion Capacitor with Identical Carbon Electrodes Yields 6 s Charging and 100 000 Cycles Stability with 1% Capacity Fade. 2019 , 7, 2867-2877	28

300	Electrochemical Properties and Theoretical Capacity for Sodium Storage in Hard Carbon: Insights from First Principles Calculations. 2019 , 31, 658-677	33
299	Revealing sodium ion storage mechanism in hard carbon. 2019 , 145, 67-81	100
298	Human-Hair-Derived N, S-Doped Porous Carbon: An Enrichment and Degradation System for Wastewater Remediation in the Presence of Peroxymonosulfate. 2019 , 7, 2718-2727	81
297	A Ternary Fe ₁ S@Porous Carbon Nanowires/Reduced Graphene Oxide Hybrid Film Electrode with Superior Volumetric and Gravimetric Capacities for Flexible Sodium Ion Batteries. 2019 , 9, 1803052	137
296	Pristine or Highly Defective? Understanding the Role of Graphene Structure for Stable Lithium Metal Plating. 2019 , 9, 1802918	79
295	Carbon quantum dots from glucose oxidation as a highly competent anode material for lithium and sodium-ion batteries. 2019 , 297, 250-257	48
294	Ultrafast Sodium/Potassium-Ion Intercalation into Hierarchically Porous Thin Carbon Shells. 2019 , 31, e1805430	148
293	Biomass-derived nanostructured porous carbons for sodium ion batteries: a review. 2019 , 34, 232-245	28
292	The effect of carbonization temperature of waste cigarette butts on Na-storage capacity of N-doped hard carbon anode. 2019 , 73, 1237-1246	13
291	Hard carbons for sodium-ion batteries: Structure, analysis, sustainability, and electrochemistry. 2019 , 23, 87-104	276
290	Hard Carbon as Sodium-Ion Battery Anodes: Progress and Challenges. 2019 , 12, 133-144	152
289	Correlation between the microstructure of carbon materials and their potassium ion storage performance. 2019 , 143, 138-146	61
288	Defect-Rich Soft Carbon Porous Nanosheets for Fast and High-Capacity Sodium-Ion Storage. 2019 , 9, 1803260	143
287	Graphene Network Scaffolded Flexible Electrodes From Lithium to Sodium Ion Batteries. 2019 ,	
286	Nitrogen-rich hierarchically porous carbon as a high-rate anode material with ultra-stable cyclability and high capacity for capacitive sodium-ion batteries. 2019 , 56, 828-839	169
285	Tailored N-doped porous carbon nanocomposites through MOF self-assembling for Li/Na ion batteries. 2019 , 538, 267-276	51
284	Mussel-Inspired Nitrogen-Doped Porous Carbon as Anode Materials for Sodium-Ion Batteries. 2019 , 7, 1800763	7
283	Hard carbon derived from rice husk as low cost negative electrodes in Na-ion batteries. 2019 , 29, 17-22	70

282	Hierarchically porous hard carbon with graphite nanocrystals for high-rate sodium ion batteries with improved initial Coulombic efficiency. 2020 , 817, 152703	12
281	Solid electrolyte interphase manipulation towards highly stable hard carbon anodes for sodium ion batteries. 2020 , 25, 324-333	44
280	Porous shiitake mushroom carbon composite with NiCo ₂ O ₄ nanorod electrochemical characteristics for efficient supercapacitor applications. 2020 , 26, 345-354	12
279	Fe ₇ Se ₈ nanoparticles anchored on N-doped carbon nanofibers as high-rate anode for sodium-ion batteries. 2020 , 24, 439-449	66
278	Selective etching of C-N bonds for preparation of porous carbon with ultrahigh specific surface area and superior capacitive performance. 2020 , 24, 486-494	21
277	A sandwich-like porous hard carbon/graphene hybrid derived from rapeseed shuck for high-performance lithium-ion batteries. 2020 , 818, 152849	10
276	A composite of ultra-fine few-layer MoS ₂ structures embedded on N,P-co-doped bio-carbon for high-performance sodium-ion batteries. 2020 , 44, 2046-2052	4
275	Nonignorable Influence of Oxygen in Hard Carbon for Sodium Ion Storage. 2020 , 8, 1497-1506	77
274	Lignin-Derived Hard Carbon Microspheres Synthesized via Emulsion-Solvent Evaporation as Anode for Sodium Storage. 2020 , 8, 1901423	6
273	Micro versus nanochannels: carbon micro-sieve tubes from biological phloem tissues for lithium-oxygen batteries. 2020 , 22, 388-396	11
272	Recent advances in nanostructured carbon for sodium-ion batteries. 2020 , 8, 1604-1630	60
271	A controllable strategy for the self-assembly of WM nanocrystals/nitrogen-doped porous carbon superstructures (M = O, C, P, S, and Se) for sodium and potassium storage. 2020 , 8, 2047-2065	11
270	Impact of hydrolysis on surface area and energy storage applications of activated carbons produced from corn fiber and soy hulls. 2020 , 3, 19-28	10
269	A novel strategy for the synthesis of hard carbon spheres encapsulated with graphene networks as a low-cost and large-scalable anode material for fast sodium storage with an ultralong cycle life. 2020 , 7, 402-410	70
268	ZnMn ₂ O ₄ /milk-derived Carbon hybrids with enhanced Lithium storage capability. 2020 , 45, 6874-6884	8
267	Ultrafast and durable lithium ion storage enabled by intertwined carbon nanofiber/Ti ₂ Nb ₁₀ O ₂₉ core-shell arrays. 2020 , 332, 135433	20
266	Nitrogen-Doped Hard Carbon on Nickel Foam as Free-Standing Anodes for High-Performance Sodium-Ion Batteries. 2020 , 7, 604-613	6
265	Revealing the Sodium Storage Mechanism in High-Temperature-Synthesized Silicon Oxycarbides. 2020 , 32, 410-423	7

264	Retarding graphitization of soft carbon precursor: From fusion-state to solid-state carbonization. 2020 , 26, 577-584	25
263	Extended plateau capacity of phosphorus-doped hard carbon used as an anode in Na- and K-ion batteries. 2020 , 391, 123576	46
262	Three-dimensional aerogel based on in-situ growth of 1T-MoS ₂ on functionalized hierarchical porous carbon/reduced graphene oxide for energy storage. 2020 , 506, 144811	9
261	Revealing the Effect of Nanopores in Biomass-Derived Carbon on its Sodium-Ion Storage Behavior. 2020 , 7, 201-211	13
260	Rapid deposition of WS ₂ platelet thin films as additive-free anode for sodium ion batteries with superior volumetric capacity. 2020 , 26, 534-542	13
259	Self-supported carbon nanofibers as negative electrodes for K-ion batteries: Performance and mechanism. 2020 , 362, 137125	10
258	Electrochemical energy storage electrodes from fruit biochar. 2020 , 284, 102263	13
257	Zinc Oxide Quantum Dots Embedded Porous Carbon Nanosheets for High-Capacity and Ultrastable Lithium-Ion Battery Anodes. 2020 , 1, 100186	4
256	Impact of biomass inorganic impurities on hard carbon properties and performance in Na-ion batteries. 2020 , 26, e00227	9
255	Unraveling the Properties of Biomass-Derived Hard Carbons upon Thermal Treatment for a Practical Application in Na-Ion Batteries. 2020 , 13, 3513	15
254	Hard carbons for sodium-ion batteries and beyond. 2020 , 2, 042002	38
253	Sustainable Anodes for Lithium- and Sodium-Ion Batteries Based on Coffee Ground-Derived Hard Carbon and Green Binders. 2020 , 13, 6216	7
252	Gas expansion-assisted preparation of 3D porous carbon nanosheet for high-performance sodium ion hybrid capacitor. 2020 , 475, 228679	16
251	Hard carbon derived from waste tea biomass as high-performance anode material for sodium-ion batteries. 2020 , 26, 5535-5542	9
250	Elucidating the Sodiation Mechanism in Hard Carbon by Operando Raman Spectroscopy. 2020 , 3, 7474-7484	23
249	Reversible Insertion of Mg-Cl Superhalides in Graphite as a Cathode for Aqueous Dual-Ion Batteries. 2020 , 59, 19924-19928	15
248	Sustainable Biomass Activated Carbons as Electrodes for Battery and Supercapacitors-A Mini-Review. 2020 , 10,	36
247	Effective synthesis route of renewable nanoporous carbon adsorbent for high energy gas storage and CO ₂ /N ₂ selectivity. 2020 , 161, 30-42	14

246	Reversible Insertion of Mg-Cl Superhalides in Graphite as a Cathode for Aqueous Dual-Ion Batteries. 2020 , 132, 20096-20100	8
245	Analysis of Tortuosity in Compacts of Ternary Mixtures of Spherical Particles. 2020 , 13,	3
244	Toward high-performance hard carbon as an anode for sodium-ion batteries: Demineralization of biomass as a critical step. 2020 , 91, 317-329	12
243	Hierarchical Self-Supported Carbon Nanostructure Enables Superior Stability of Highly Nitrogen-Doped anodes. 2020 , 7, 3883-3888	1
242	Stabilizing Tin Anodes in Sodium-Ion Batteries by Alloying with Silicon. 2020 , 3, 9950-9962	3
241	Rational Route for Increasing Intercalation Capacity of Hard Carbons as Sodium-Ion Battery Anodes. 2020 , 13, 5762-5768	9
240	Insights into the Plateau Capacity Dependence on the Rate Performance and Cycling Stability of a Superior Hard Carbon Microsphere Anode for Sodium-Ion Batteries. 2020 , 3, 10045-10052	5
239	Interface-Induced Pseudocapacitance in Nonporous Heterogeneous Particles for High Volumetric Sodium Storage. 2020 , 30, 2002019	31
238	Assessment on the Use of High Capacity $\text{Sn}_4\text{P}_3/\text{NHC}$ Composite Electrodes for Sodium-Ion Batteries with Ether and Carbonate Electrolytes. 2020 , 30, 2004798	27
237	Biochar as a Sustainable Resource to Drive Innovative Green Technologies. 2020 , 1-33	1
236	Construction of nitrogen-sulfur co-doped porous carbon to boost, integrate Li/Na/K ion storage. 2020 , 356, 115451	3
235	Hierarchical Multicavity Nitrogen-Doped Carbon Nanospheres as Efficient Polyselenide Reservoir for Fast and Long-Life Sodium-Selenium Batteries. 2020 , 16, e2005534	14
234	Encapsulated Sb and Sb_2O_3 particles in waste-tire derived carbon as stable composite anodes for sodium-ion batteries. 2020 , 4, 3613-3622	9
233	Na-Ion batteries. 2020 , 1-64	1
232	Hard carbon anode derived from camellia seed shell with superior cycling performance for sodium-ion batteries. 2020 , 53, 414002	6
231	Biomass-Derived P/N-Co-Doped Carbon Nanosheets Encapsulate CuP Nanoparticles as High-Performance Anode Materials for Sodium-Ion Batteries. 2020 , 8, 316	5
230	Hard carbon microspheres derived from resorcinol formaldehyde resin as high-performance anode materials for sodium-ion battery. 2020 , 26, 4523-4532	17
229	Dual-Templating Approaches to Soybeans Milk-Derived Hierarchically Porous Heteroatom-Doped Carbon Materials for Lithium-Ion Batteries. 2020 , 9, 582-587	7

228	Optimization of the Carbon Content in Copper Phosphide/Carbon Composites for High Performance Sodium Secondary Batteries Using Ionic Liquids. 2020 , 7, 2477-2484	3
227	Modulating the defects of graphene blocks by ball-milling for ultrahigh gravimetric and volumetric performance and fast sodium storage. 2020 , 30, 287-295	35
226	Peat-derived hard carbon electrodes with superior capacity for sodium-ion batteries.. 2020 , 10, 20145-20154	11
225	Carbon nano-beads collected from candle soot as an anode material with a highly pseudocapacitive Na+ storage capability for dual-ion batteries. 2020 , 26, 4533-4542	5
224	Recent progress in plant-derived hard carbon anode materials for sodium-ion batteries: a review. 2020 , 39, 1019-1033	60
223	Hierarchical porous oviform carbon capsules with double-layer shells derived from mushroom spores for efficient sodium ion storage. 2020 , 871, 114310	6
222	Overcoming the Unfavorable Kinetics of Na ₃ V ₂ (PO ₄) ₂ F ₃ //SnPx Full-Cell Sodium-Ion Batteries for High Specific Energy and Energy Efficiency. 2020 , 30, 2003086	15
221	Coffee-Ground-Derived Nanoporous Carbon Anodes for Sodium-Ion Batteries with High Rate Performance and Cyclic Stability. 2020 , 34, 7666-7675	4
220	Fast Charging Materials for High Power Applications. 2020 , 10, 2001128	48
219	Nano-size porous carbon spheres as a high-capacity anode with high initial coulombic efficiency for potassium-ion batteries. 2020 , 5, 895-903	22
218	Graphene-induced three-dimensional network structure to MoS ₂ /graphene composite as an excellent anode for sodium ion batteries. 2020 , 13, 1951006	3
217	Salt and sugar derived high power carbon microspheres anode with excellent low-potential capacity. 2020 , 163, 288-296	19
216	N-doped porous carbon nanofibers fabricated by bacterial cellulose-directed templating growth of MOF crystals for efficient oxygen reduction reaction and sodium-ion storage. 2020 , 168, 12-21	31
215	Preparation of Activated Carbon Derived from Water Hyacinth as Electrode Active Material for Li-Ion Supercapacitor. 2020 , 1000, 50-57	
214	Bio-inspired 3D porous carbon nanosheets composite materials for high-performance lithium-ion batteries. 2020 , 22, 1	0
213	Self-supported binder-free hard carbon electrodes for sodium-ion batteries: insights into their sodium storage mechanisms. 2020 , 8, 5558-5571	28
212	Biomass-Derived Carbons for Sodium-Ion Batteries and Sodium-Ion Capacitors. 2020 , 13, 1275-1295	51
211	Agaric-assisted synthesis of core-shell MnO@C microcubes as super-high- volumetric-capacity anode for lithium-ion batteries. 2020 , 162, 36-45	28

210	Exposing inner defects of porous carbon sheets to enhance rate performance of sodium-ion batteries. 2020 , 860, 113924	8
209	Porous Carbons: Structure-Oriented Design and Versatile Applications. 2020 , 30, 1909265	119
208	High Capacity Adsorption-Dominated Potassium and Sodium Ion Storage in Activated Crumpled Graphene. 2020 , 10, 1903280	44
207	A carboxylate group-based organic anode for sustainable and stable sodium ion batteries. 2020 , 453, 227904	21
206	Structural Analysis of Sucrose-Derived Hard Carbon and Correlation with the Electrochemical Properties for Lithium, Sodium, and Potassium Insertion. 2020 , 32, 2961-2977	65
205	Hyperaccumulation Route to Ca-Rich Hard Carbon Materials with Cation Self-Incorporation and Interlayer Spacing Optimization for High-Performance Sodium-Ion Batteries. 2020 , 12, 10544-10553	37
204	Pore structure regulation of hard carbon: Towards fast and high-capacity sodium-ion storage. 2020 , 566, 257-264	23
203	Assessing the structural properties of graphitic and non-graphitic carbons by Raman spectroscopy. 2020 , 161, 359-372	97
202	Construction of a multi-dimensional flexible MnS based paper electrode with ultra-stable and high-rate capability towards efficient sodium storage. 2020 , 12, 4119-4127	7
201	Hollow carbon microbox from acetylacetone as anode material for sodium-ion batteries. 2020 , 51, 293-302	12
200	Toward Green Battery Cells: Perspective on Materials and Technologies. 2020 , 4, 2000039	73
199	Synthesis of Vanadium Nitride/Hard Carbon Composites from Cellulose and Their Performance for Sodium-Ion Batteries. 2020 , 3, 4286-4294	11
198	Anodes and Sodium-Free Cathodes in Sodium Ion Batteries. 2020 , 10, 2000288	51
197	Revealing the Intercalation Mechanisms of Lithium, Sodium, and Potassium in Hard Carbon. 2020 , 10, 2000283	79
196	Carbon spheres with rational designed surface and secondary particle-piled structures for fast and stable sodium storage. 2021 , 54, 368-376	5
195	Vanadium-based polyanionic compounds as cathode materials for sodium-ion batteries: Toward high-energy and high-power applications. 2021 , 55, 361-390	28
194	Hard carbon derived from coconut shells, walnut shells, and corn silk biomass waste exhibiting high capacity for Na-ion batteries. 2021 , 58, 207-218	23
193	Maximizing the rate capability of carbon-based anode materials for sodium-ion batteries. 2021 , 481, 228973	6

192	Monitoring the thermally induced transition from sp ³ -hybridized into sp ² -hybridized carbons. 2021 , 172, 214-227	11
191	High performance sodium-ion battery anode using biomass derived hard carbon with engineered defective sites. 2021 , 368, 137574	19
190	Large-Scale Synthesis of Porous Carbon/Cobalt Nanofiber for Environmental Remediation by Advanced Oxidation Processes. 2021 , 1, 249-260	20
189	Divergent thinking and its application in biomass carbon electrode preparation. 2021 , 138, 110564	5
188	Green energy application technology of litchi pericarp-derived carbon material with high performance. 2021 , 286, 124960	9
187	Structural orientation effect of cellulose nanocrystals (CNC) films on electrochemical kinetics and stability in lithium-ion batteries. 2021 , 417, 128128	4
186	Understanding Excess Li Storage beyond LiC in Reduced Dimensional Scale Graphene. <i>ACS Nano</i> , 2021 , 15, 797-808	16.7 23
185	Titanium niobate (TiNbO) anchored on nitrogen-doped carbon foams as flexible and self-supported anode for high-performance lithium ion batteries. 2021 , 587, 622-632	11
184	Carbon materials for ion-intercalation involved rechargeable battery technologies. 2021 , 50, 2388-2443	79
183	Self-templated synthesis of hollow hierarchical porous olive-like carbon toward universal high-performance alkali (Li, Na, K)-ion storage. 2021 , 174, 317-324	12
182	Graphene and graphene-like structure from biomass for Electrochemical Energy Storage application- A Review. 2021 , 1, e2000028	2
181	Biomass-derived biochar materials as sustainable energy sources for electrochemical energy storage devices. 2021 , 137, 110464	35
180	A Stable Biomass-Derived Hard Carbon Anode for High-Performance Sodium-Ion Full Battery. 2021 , 9, 2000730	4
179	Recent Advances in Functionalized Nanoporous Carbons Derived from Waste Resources and Their Applications in Energy and Environment. 2021 , 5, 2000169	19
178	In situ dual growth of graphitic structures in biomass carbon to yield a potassium-ion battery anode with high initial coulombic efficiency. 2021 , 9, 9191-9202	12
177	Heterostructures of titanium-based MXenes in energy conversion and storage devices. 2021 , 9, 8395-8465	10
176	Efficient energy storage in mustard husk derived porous spherical carbon nanostructures.	3
175	A review on biomass-derived hard carbon materials for sodium-ion batteries. 2021 , 2, 5881-5905	7

174	Air activation of charcoal monoliths for capacitive energy storage.. 2021 , 11, 15118-15130	1
173	Organic electrode materials for non-aqueous, aqueous, and all-solid-state Na-ion batteries. 2021 , 9, 19083-19185	85
172	Probe on hard carbon electrode derived from orange peel for energy storage application. 2021 , 31, 1033-1039	3
171	Carbon Anode Materials: A Detailed Comparison between Na-ion and K-ion Batteries. 2021 , 11, 2003640	52
170	Green large-scale production of N/O-dual doping hard carbon derived from bagasse as high-performance anodes for sodium-ion batteries. 2021 , 28, 361-369	8
169	Self-standing hard carbon anode derived from hyper-linked nanocellulose with high cycling stability for lithium-ion batteries. 2021 , 3, e12091	19
168	Comprehensive Understanding of Sodium-Ion Capacitors: Definition, Mechanisms, Configurations, Materials, Key Technologies, and Future Developments. 2021 , 11, 2003804	46
167	Maximized pseudo-graphitic content in self-supported hollow interconnected carbon foam boosting ultrastable Na-ion storage. 2021 , 371, 137776	2
166	Recent advances in semimetallic pnictogen (As, Sb, Bi) based anodes for sodium-ion batteries: Structural design, charge storage mechanisms, key challenges and perspectives. 2021 , 14, 3690	10
165	Engineered Carbon Electrodes for High Performance Capacitive and Hybrid Energy Storage. 2021 , 35, 102340	0
164	From Micropores to Ultra-micropores inside Hard Carbon: Toward Enhanced Capacity in Room-/Low-Temperature Sodium-Ion Storage. 2021 , 13, 98	11
163	Hard Carbon for Na-ion Batteries: From Synthesis to Performance and Storage Mechanism. 2021 , 101-146	0
162	Facile Approach To Prepare Multiple Heteroatom-Doped Carbon Material from Bagasse and Its Applications toward Lithium-Ion and LithiumSulfur Batteries. 2021 , 35, 8286-8294	10
161	The novel N-rich hard carbon nanofiber as high-performance electrode materials for sodium-ion batteries. 2021 , 47, 9118-9124	3
160	Engineering hard carbon with high initial coulomb efficiency for practical sodium-ion batteries. 2021 , 492, 229656	12
159	Ionic liquid-induced low temperature graphitization of cellulose-derived biochar for high performance sodium storage. 2021 , 412, 127034	6
158	Boost sodium-ion batteries to commercialization: Strategies to enhance initial Coulombic efficiency of hard carbon anode. 2021 , 82, 105738	36
157	Oxygen-vacancy-rich TiO ₂ -coated carbon nanofibers for fast sodium storage in high-performance sodium-ion hybrid capacitors. 2021 , 493, 229678	9

156	Applications of Carbon in Rechargeable Electrochemical Power Sources: A Review. 2021 , 14, 2649	8
155	Elucidating electrochemical intercalation mechanisms of biomass-derived hard carbon in sodium-/potassium-ion batteries. 2021 , 3, 541-553	13
154	Sodium-ion battery anodes from carbon depositions. 2021 , 379, 138109	1
153	Controlling intercalation sites of hard carbon for enhancing Na and K storage performance. 2021 , 411, 128490	21
152	Nitrogen-Doped Porous Carbon Framework Supports Ultrafine FeS ₂ Nanoparticles as Advanced Performance Anode Materials for Sodium-Ion Batteries. 2021 , 4, 6874-6882	3
151	Biomass-derived Carbon Quantum Dots [A Review. Part 2: Application in Batteries. 2021 , 8, 302	6
150	Biomass Feedstock of Waste Mango-Peel-Derived Porous Hard Carbon for Sustainable High-Performance Lithium-Ion Energy Storage Devices. 2021 , 35, 10878-10889	8
149	Understanding acid pretreatment of lotus leaves to prepare hard carbons as anodes for sodium ion batteries. 2021 , 415, 127125	3
148	N-doped egg-box-like porous carbons with superior rate capacities for lithium/sodium ions storage. 2021 , 619, 126402	0
147	Advanced Graphene Materials for Sodium/Potassium/Aluminum-Ion Batteries. 2021 , 3, 1221-1237	4
146	Development of environment friendly water-based self-rechargeable battery. 2021 , 172, 1184-1193	1
145	Fabrication of a Sustainable Closed Loop for Waste-Derived Materials in Electrochemical Applications. 2021 , 60, 11637-11648	3
144	Pyrolysed coffee grounds as a conductive host agent for sulfur composite electrodes in LiS batteries. 2021 , 4, 100053	2
143	Algae-derived hard carbon anodes for Na-ion batteries. 2021 , 51, 1665	3
142	In Situ (Operando) Electrochemical Dilatometry as a Method to Distinguish Charge Storage Mechanisms and Metal Plating Processes for Sodium and Lithium Ions in Hard Carbon Battery Electrodes. 2100596	2
141	One-pot fabrication of pitch-derived soft carbon with hierarchical porous structure and rich sp ² carbon for sodium-ion battery. 2021 , 32, 21944-21956	
140	Synthesis of High-Performance Hard Carbon from Waste Coffee Ground as Sodium Ion Battery Anode Material: A Review. 1044, 25-39	
139	Regulating microstructures of soft carbon anodes by terminations of Ti ₃ C ₂ T MXene toward fast and stable sodium storage. 2021 , 87, 106097	8

138	Biomimetic Wood-Inspired Batteries: Fabrication, Electrochemical Performance, and Sustainability within a Circular Perspective. 2100236	1
137	Spruce Hard Carbon Anodes for Lithium-Ion Batteries.	4
136	A review on novel activation strategy on carbonaceous materials with special morphology/texture for electrochemical storage. 2021 , 60, 572-590	21
135	Porous nanocomposites by cotton-derived carbon/NiO with high performance for lithium-ion storage. 2021 , 874, 159788	6
134	Synthesis and Characterization of Activated Carbon from Water Hyacinth. 2021 , 2013, 012025	
133	Corn stalks derived hierarchical porous carbon as ultra-efficient anode materials for sodium-ion batteries. 2021 , 120, 108626	3
132	Carbon in lithium-ion and post-lithium-ion batteries: Recent features. 2021 , 280, 116864	3
131	Recent advancements in development of different cathode materials for rechargeable lithium ion batteries. 2021 , 43, 103112	6
130	Role of electrolyte in stabilizing hard carbon as an anode for rechargeable sodium-ion batteries with long cycle life. 2021 , 42, 78-87	7
129	New insights into carbon-based and MXene anodes for Na and K-ion storage: A review. 2021 , 62, 660-691	10
128	Eco-friendly utilization of sawdust: Ionic liquid-modified biochar for enhanced Li storage of TiO. 2021 , 794, 148688	7
127	Progress and challenges in using sustainable carbon anodes in rechargeable metal-ion batteries. 2021 , 87, 100929	8
126	Ultra-stable Sb/hard carbon composite anodes with synergistic alkali-ion storage performances. 2021 , 144, 111491	2
125	State-of-the-art and perspectives in the use of biochar for electrochemical and electroanalytical applications. 2021 , 23, 5272-5301	7
124	Nitrogen, Sulfur, and Phosphorus Codoped Hollow Carbon Microtubes Derived from Silver Willow Blossoms as a High-Performance Anode for Sodium-Ion Batteries. 2021 , 35, 2795-2804	8
123	Outstanding Low-Temperature Performance of Structure-Controlled Graphene Anode Based on Surface-Controlled Charge Storage Mechanism. 2021 , 31, 2009397	13
122	Hard carbon key properties allow for the achievement of high Coulombic efficiency and high volumetric capacity in Na-ion batteries. 2021 , 9, 1743-1758	19
121	Biomass-based materials for green lithium secondary batteries. 2021 , 14, 1326-1379	55

120	Performance of carbon based on chicken feather with KOH activation as an anode for Li-ion batteries. 2021 , 44, 3183-3187	2
119	Sulfur-doped shaddock peel-derived hard carbons for enhanced surface capacity and kinetics of lithium-ion storage. 2020 , 44, 4026-4037	4
118	Activated carbon from the waste water purifier for supercapacitor application. 2017 , 21, 3169-3177	7
117	Ionic liquid-induced graphitization of biochar: N/P dual-doped carbon nanosheets for high-performance lithium/sodium storage. 2021 , 56, 8186-8201	7
116	High-performance lithium battery driven by hybrid lithium storage mechanism in 3D architected carbonized eggshell membrane anode. 2020 , 166, 26-35	7
115	Upgrading agricultural biomass for sustainable energy storage: Bioprocessing, electrochemistry, mechanism. 2020 , 31, 274-309	17
114	First Atomic-Scale Insight into Degradation in Lithium Iron Phosphate Cathodes by Transmission Electron Microscopy. 2020 , 11, 4608-4617	4
113	A review of hard carbon anode materials for sodium-ion batteries and their environmental assessment. 2019 , 107, 503	7
112	High Capacity and Superior Rate Performances Coexisting in Carbon-Based Sodium-Ion Battery Anode. 2019 , 2019, 6930294	7
111	Structure Engineering in Biomass-Derived Carbon Materials for Electrochemical Energy Storage. 2020 , 2020, 8685436	26
110	Enhancing the performance of hard carbon for sodium-ion batteries by coating with silicon nitride/oxycarbide nanoparticles.	1
109	One-pot synthesis of SnS ₂ Nanosheets supported on g-C ₃ N ₄ as high capacity and stable cycling anode for sodium-ion batteries.	1
108	Biomass Porous Carbons Derived from Banana Peel Waste as Sustainable Anodes for Lithium-Ion Batteries. 2021 , 14,	1
107	Waste tire-derived porous nitrogen-doped carbon black as an electrode material for supercapacitors. 2021 , 24, 100535	0
106	Spent asphalt-derived mesoporous carbon for high-performance Li/Na/K-ion storage. 2021 , 514, 230593	1
105	General Introduction. 2019 , 1-28	
104	Surface Chemistry and Mesopore Dual Regulation by Sulfur-Promised High Volumetric Capacity of Ti C T Films for Sodium-Ion Storage. 2021 , 17, e2103626	5
103	Pre-doping iodine to restrain formation of low-active graphitic-N in hard carbon for significantly boosting sodium storage performance. 2022 , 186, 193-204	3

102	Insights into the diverse precursor-based micro-spherical hard carbons as anode materials for sodium-ion and potassium-ion batteries.	1
101	Enhancing the tribological properties and corrosion resistance of graphene-based lubricating grease via ultrasonic-assisted ball milling. 2022 , 633, 127889	2
100	Laser Irradiation of a Bio-Waste Derived Carbon Unlocks Performance Enhancement in Secondary Lithium Batteries.. 2021 , 11,	1
99	Wood for Application in Electrochemical Energy Storage Devices. 2021 , 2, 100654	1
98	Fabrication and testing of sodium-ion full cell with P2-Na _{0.67} Ni _{0.167} Co _{0.167} Mn _{0.67} O ₂ (Na-NCM) and hard carbon in coin cell and 2 Ah prismatic cell configuration. 2021 ,	
97	A comparative overview of carbon anodes for nonaqueous alkali metal-ion batteries. 2021 , 9, 27140-27169	1
96	Plasma-Promoted Surface Regulation of a Novel Integrative Carbon Network for Boosting the Long-Cycle Capability of Sodium-Ion Storage.	
95	Quantum dot synthesis from waste biomass and its applications in energy and bioremediation.. 2022 , 293, 133564	4
94	Bio-crude oil production and valorization of hydrochar as anode material from hydrothermal liquefaction of algae grown on brackish dairy wastewater. 2022 , 227, 107119	1
93	One-step sonochemical fabrication of biomass-derived porous hard carbons; towards tuned-surface anodes of sodium-ion batteries.. 2021 , 611, 578-587	6
92	Fluorine-Doped Hard Carbon as the Advanced Performance Anode Material of Sodium-Ion Batteries. 1	1
91	Progress and Trends in Nonaqueous Rechargeable Aluminum Batteries. 2100418	1
90	Porous carbons for energy storage and conversion. 2022 , 239-540	
89	Bichannel design inspired by membrane pump: a rate booster for the conversion-type anode of sodium-ion battery.	
88	Mixing, Domains, and Fast Li-Ion Dynamics in Ternary Li _{1-x} B _x Bi Battery Anode Alloys. 2022 , 126, 2394-2402	2
87	Two C-S bonds derived from carbons with different IG/ID values promote high sulfur loads and stable capacity storage. 2022 , 584, 152620	1
86	Plasma-promoted surface regulation of a novel integrative carbon network for boosting the long-cycle capability of sodium-ion storage. 2022 , 191, 112-121	1
85	Advanced applications of biomass for energy storage. 2022 , 171-209	

84	Nitrogen enriched mesoporous carbon spheres as efficient anode material for long cycle Li/Na ion batteries.	0
83	Ultralong Cycle Life and High Rate Sodium-Ion Batteries Enabled by Surface-Dominated Storage of 3d Hollow Carbon Spheres.	
82	Using machine learning to screen non-graphite carbon materials based on Na-ion storage properties. 2022 , 10, 8031-8046	4
81	A review on the development of synthesis method for biomass-derived hard carbon for sodium ion batteries. 2022 ,	
80	CO ₂ Utilization by Electrolytic Splitting to Carbon Nanotubes in Non-Lithiated, Cost-Effective, Molten Carbonate Electrolytes. 2100481	2
79	Electrode-Electrolyte Interfacial Chemistry Modulation for Ultra-High Rate Sodium-Ion Batteries.	2
78	Create Rich Oxygen Defects of Unique Tubular Hierarchical Molybdenum Dioxide to Modulate Electron Transfer Rate for Superior High-Energy Metal-ion Hybrid Capacitor.	1
77	Sodium Storage Mechanism of Nongraphitic Carbons: A General Model and the Function of Accessible Closed Pores.	1
76	Tailoring Defects in Hard Carbon Anode towards Enhanced Na Storage Performance. 2022 , 2022, 1-11	6
75	Electrode-Electrolyte Interfacial Chemistry Modulation for Ultra-High Rate Sodium-Ion Battery.. 2022 ,	3
74	Biomass-derived porous carbon and colour-tunable graphene quantum dots for high-performance supercapacitor and selective probe for metal ion detection.	2
73	Nitrogen and phosphorus co-doped porous carbon prepared by direct carbonization method as potential anode material for Li-ion batteries. 2022 , 124, 108931	1
72	Biomass-Derived Carbon for High-Performance Batteries: From Structure to Properties. 2201584	9
71	Conversion of Biowastes into Carbon-based Electrodes. 2022 , 73-103	
70	Superior cycling stability of saturated graphitic carbon nitride in hydrogel reduced graphene oxide anode for Sodium-ion battery. 2022 , 33, 100351	0
69	Impact of the biomass precursor composition in the hard carbon properties and performance for application in a Na-ion battery. 2022 , 231, 107223	1
68	Towards eco-friendly redox flow batteries with all bio-sourced cell components. 2022 , 50, 104352	1
67	Low-temperature synthesis of graphite flakes and carbon-based nanomaterials from banana peels using hydrothermal process for photoelectrochemical water-splitting. 2022 , 141, 115231	0

66	Facile synthesis of porous carbon monolith by solvothermal process. 2022 , 318, 132236	
65	Ultrathin Artificial Solid Electrolyte Interface Layer-Coated Biomass-Derived Hard Carbon as an Anode for Sodium-Ion Batteries. 2022 , 5, 1052-1064	0
64	Structural Evolution of Graphitic Carbon Derived from Ionic Liquids-Dissolved Cellulose and Its Application as Lithium-Ion Battery Anodes.. 2021 ,	4
63	Mesoporous Weaved Turbostratic Nanodomains Enable Stable Na Ion Storage and Micropore Filling is Revealed to be More Unsafe than Adsorption and Deintercalation.. 2021 ,	0
62	A Comparative Techno-Economic and Lifecycle Analysis of Biomass-Derived Anode Materials for Lithium- and Sodium-Ion Batteries. 2200047	0
61	Inhibiting the cyclization of PAN by carboxyl groups for carbon nanofibers with balanced Na+ storage performance and ICE. 2022 , 153447	
60	Presentation1.PDF. 2018 ,	
59	Data_Sheet_1.docx. 2020 ,	
58	Molybdenum Carbide Electrocatalyst in-situ Embedded in Porous Nitrogen-rich Carbon Nanotubes Promotes Rapid Kinetics in Sodium Metal - Sulfur Batteries.. 2022 , e2106572	3
57	Sodium-Ion Batteries: Chemistry of Biomass Derived Disordered Carbon in Carbonate and Ether-Based Electrolytes.	
56	Sustainable lithium-ion batteries based on metal-free tannery waste biochar.	1
55	Microcrystalline Hybridization Enhanced Coal-Based Carbon Anode for Advanced Sodium-Ion Batteries.. 2022 , e2200023	4
54	Active material and interphase structures governing performance in sodium and potassium ion batteries.	2
53	Dual carbon Li-ion capacitor with high energy density and ultralong cycling life at a wide voltage window.	0
52	Understanding of the sodium storage mechanism in hard carbon anodes.	12
51	Hard carbon derived from hazelnut shell with facile HCl treatment as high-initial-coulombic-efficiency anode for sodium ion batteries. 2022 , e00446	0
50	A green route N, S-doped hard carbon derived from fruit-peel biomass waste as an anode material for rechargeable sodium-ion storage applications. 2022 , 424, 140573	0
49	Sulfur and nitrogen codoped cyanoethyl cellulose-derived carbon with superior gravimetric and volumetric capacity for potassium ion storage.	6

48	Sustainable Free-Standing Electrode from Biomass Waste for Sodium-Ion Batteries.	0
47	Supercapacitor performance based on nitrogen and sulfur co-doped hierarchically porous carbons: Superior rate capability and cycle stability.	0
46	One dimensional amorphous carbon nanotubes derived from palygorskite as template for high performance lithium ions batteries.	1
45	Hard carbon derived for lignin with robust and low-potential sodium ion storage. 2022 , 116526	2
44	Understanding of Sodium Storage Mechanism in Hard Carbons: Ongoing Development under Debate. 2200715	10
43	Activated carbon derived from cherry flower biowaste with a self-doped heteroatom and large specific surface area for supercapacitor and sodium-ion battery applications. 2022 , 303, 135290	5
42	Sodium-ion batteries: Chemistry of biomass derived disordered carbon in carbonate and ether-based electrolytes. 2022 , 425, 140744	1
41	Plant-derived hard carbon as anode for sodium-ion batteries: A comprehensive review to guide interdisciplinary research. 2022 , 447, 137468	3
40	Nanostructuring versus microstructuring in battery electrodes.	6
39	Brewers spent grains derived carbon as anode for alkali metal ion batteries.	0
38	An Electrochemical Immunoassay for Lactobacillus rhamnosus GG Using Cu@Cu ₂ O Nanoparticle-Embedded B, N, Co-doped Porous Carbon.	
37	Review: Two-Dimensional Layered Material Based Electrodes for Lithium Ion and Sodium Ion Batteries. 2023 , 399-418	
36	Pine-Fiber-Derived Carbon@MnO@rGO as Advanced Anodes for Improving Lithium Storage Properties. 2022 , 12, 1139	
35	Facile synthesis of high quality hard carbon anode from Eucalyptus wood for sodium-ion batteries.	0
34	Correlating Structural Properties with Electrochemical Behavior of Non-graphitizable Carbons in Na-Ion Batteries.	
33	Core-Shell Se-Doped TiO ₂ @Carbon Nanotubes for High-Performance Sodium-Ion Batteries. 2201140	1
32	Redgum-derived high surface area porous carbon for electric double layer capacitors. 2022 , 15, 100567	0
31	Ultralong cycle life and high rate sodium-ion batteries enabled by surface-dominated storage of 3D hollow carbon spheres. 2022 , 926, 166646	0

- 30 Graphene-mediated dense integration of Ti₃C₂T_x MXene monoliths for compact energy storage: Balancing kinetics and packing density. **2022**, 604, 154565 ○
- 29 Assembly and electrochemical testing of renewable carbon-based anodes in SIBs: A practical guide. **2022**, 75, 457-477 ○
- 28 Regulation of surface oxygen functional groups and pore structure of bamboo-derived hard carbon for enhanced sodium storage performance. **2023**, 452, 139514 1
- 27 Hollow Tubular Biomass-Derived Carbon Loaded NiS/C for High Performance Lithium Storage. **2022**, 169, 090511 ○
- 26 Multifunctional hydrophobic fabric-based strain sensor for human motion detection and personal thermal management. **2022**, ○ 1
- 25 Halogenated Carboxylates as Organic Anodes for Stable and Sustainable Sodium-Ion Batteries. **2022**, 14, 40784-40792 ○
- 24 Biomass Waste-Derived Solar Evaporator for Efficient and Low-Cost Water Evaporation. 2200900 ○
- 23 Controlled Nitrogen Doping in Crumpled Graphene for Improved Alkali Metal-Ion Storage under Low-Temperature Conditions. 2209775 ○
- 22 Bio-waste-derived-hard carbon anodes through a sustainable and cost-effective synthesis process for Sodium-ion batteries. ○
- 21 Hard Carbon Reprising Porous Morphology Derived from Coconut Sheath for Sodium-Ion Battery. **2022**, 15, 8086 ○
- 20 Cellulose Nanocrystals (CNC) Liquid Crystalline State in Suspension: An Overview. **2022**, 1, 244-278 ○
- 19 Electrochemistry in the Wild. **2022**, 1-28 ○
- 18 Synthesis, Characterization and Applications of Plain and Non-Metal Doped, Biomass-Derived Carbon Quantum Dots: A Short Review. **2022**, 34, 3048-3058 ○
- 17 Ionothermal synthesis of activated carbon from waste PET bottles as anode materials for lithium-ion batteries. **2022**, 12, 34670-34684 2
- 16 Utilization of Spent Coffee Grounds with Hydrochloric Acid (HCl) as Electrolyte for Bio-Battery Applications. 421, 121-131 ○
- 15 Utilization of Spent Coffee Grounds with Sodium Hydroxide (NaOH) as Electrolyte for Applications Bio-Battery. 421, 111-120 ○
- 14 Application of HTS in Rechargeable Battery. **2023**, 55-95 ○
- 13 Preparation and Characterization of Sisal Fibre Carbon Catalyst for Propane Oxidative Dehydrogenation. ○

- 12 From waste to resources: Transforming olive leaves to hard carbon as sustainable and versatile electrode material for Li/Na-ion batteries and supercapacitors.. **2023**, 100313 1
- 11 High content of nitrogen doped porous carbon prepared by one-step calcination for enviable rate lithium ion batteries. **2023**, 109696 0
- 10 Structural and Electrochemical Properties of Musa acuminata Fiber Derived Hard Carbon as Anodes of Sodium-Ion Batteries. **2023**, 16, 979 0
- 9 Mechanically flexible reduced graphene oxide/carbon composite films for high-performance quasi-solid-state lithium-ion capacitors. **2023**, 80, 68-76 0
- 8 Utilizing the capacity below 0V to maximize lithium storage of hard carbon anodes. **2023**, 83, 169-177 0
- 7 Bagasse-Derived Hard Carbon Anode with an Adsorption/Intercalation Mechanism for High-Rate Potassium Storage. **2023**, 6, 2370-2377 0
- 6 Recent Progress in Biomass-Derived Carbon Materials for Li-Ion and Na-Ion Batteries: A Review. **2023**, 9, 116 1
- 5 Electrochemical Characterization of Charge Storage at Anodes for Sodium-Ion Batteries Based on Corncob Waste-Derived Hard Carbon and Binder. **2023**, 10, 0
- 4 Growing curly graphene layer boosts hard carbon with superior sodium-ion storage. 0
- 3 Optimization of Electrochemical Presodiation Parameters of Na-Ion Full Cells for Stable Solid Electrolyte Interface Formation: Hard Carbon Rods from Waste Firefighter Suits. 0
- 2 Porous carbon derived from cherry blossom leaves treatment with Fe₃O₄ enhanced the electrochemical performance of a lithium storage anode. **2023**, 455, 142426 0
- 1 Graphene and Graphene-Like Materials Derived from Biomass for Supercapacitor Applications. **2023**, 223-243 0