Dongliang Chao

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#	Paper	IF	Citations
122	Array of nanosheets render ultrafast and high-capacity Na-ion storage by tunable pseudocapacitance. <i>Nature Communications</i> , 2016 , 7, 12122	17.4	990
121	Recent Advances in Zn-Ion Batteries. Advanced Functional Materials, 2018, 28, 1802564	15.6	981
120	Pseudocapacitive Na-Ion Storage Boosts High Rate and Areal Capacity of Self-Branched 2D Layered Metal Chalcogenide Nanoarrays. <i>ACS Nano</i> , 2016 , 10, 10211-10219	16.7	702
119	Nonaqueous Hybrid Lithium-Ion and Sodium-Ion Capacitors. <i>Advanced Materials</i> , 2017 , 29, 1702093	24	541
118	An Electrolytic Zn-MnO Battery for High-Voltage and Scalable Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7823-7828	16.4	464
117	Roadmap for advanced aqueous batteries: From design of materials to applications. <i>Science Advances</i> , 2020 , 6, eaba4098	14.3	455
116	Graphene quantum dots coated VO2 arrays for highly durable electrodes for Li and Na ion batteries. <i>Nano Letters</i> , 2015 , 15, 565-73	11.5	417
115	A V2O5/conductive-polymer core/shell nanobelt array on three-dimensional graphite foam: a high-rate, ultrastable, and freestanding cathode for lithium-ion batteries. <i>Advanced Materials</i> , 2014 , 26, 5794-800	24	400
114	A new type of porous graphite foams and their integrated composites with oxide/polymer core/shell nanowires for supercapacitors: structural design, fabrication, and full supercapacitor demonstrations. <i>Nano Letters</i> , 2014 , 14, 1651-8	11.5	395
113	A High-Rate and Stable Quasi-Solid-State Zinc-Ion Battery with Novel 2D Layered Zinc Orthovanadate Array. <i>Advanced Materials</i> , 2018 , 30, e1803181	24	389
112	Generic Synthesis of Carbon Nanotube Branches on Metal Oxide Arrays Exhibiting Stable High-Rate and Long-Cycle Sodium-Ion Storage. <i>Small</i> , 2016 , 12, 3048-58	11	377
111	Self-assembly of honeycomb-like MoS2 nanoarchitectures anchored into graphene foam for enhanced lithium-ion storage. <i>Advanced Materials</i> , 2014 , 26, 7162-9	24	373
110	Solution synthesis of metal oxides for electrochemical energy storage applications. <i>Nanoscale</i> , 2014 , 6, 5008-48	7.7	321
109	All Metal Nitrides Solid-State Asymmetric Supercapacitors. <i>Advanced Materials</i> , 2015 , 27, 4566-71	24	313
108	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. <i>Advanced Materials</i> , 2018 , 30, e1705516	24	273
107	Confining Sulfur in Integrated Composite Scaffold with Highly Porous Carbon Fibers/Vanadium Nitride Arrays for High-Performance Lithium Bulfur Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1706391	15.6	258
106	Three-dimensional graphene and their integrated electrodes. <i>Nano Today</i> , 2014 , 9, 785-807	17.9	228

105	Ni3S2@MoS2 core/shell nanorod arrays on Ni foam for high-performance electrochemical energy storage. <i>Nano Energy</i> , 2014 , 7, 151-160	17.1	214
104	Porous Fe2O3 nanorods supported on carbon nanotubes-graphene foam as superior anode for lithium ion batteries. <i>Nano Energy</i> , 2014 , 9, 364-372	17.1	211
103	Tubular TiC fibre nanostructures as supercapacitor electrode materials with stable cycling life and wide-temperature performance. <i>Energy and Environmental Science</i> , 2015 , 8, 1559-1568	35.4	188
102	Controllable growth of conducting polymers shell for constructing high-quality organic/inorganic core/shell nanostructures and their optical-electrochemical properties. <i>Nano Letters</i> , 2013 , 13, 4562-8	11.5	177
101	Flexible Quasi-Solid-State Sodium-Ion Capacitors Developed Using 2D Metal@rganic-Framework Array as Reactor. <i>Advanced Energy Materials</i> , 2018 , 8, 1702769	21.8	163
100	MoS2 nanosheets decorated Ni3S2@MoS2 coaxial nanofibers: Constructing an ideal heterostructure for enhanced Na-ion storage. <i>Nano Energy</i> , 2016 , 20, 1-10	17.1	161
99	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Low-Cost Antisolvents. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7366-7375	16.4	161
98	TMD-based highly efficient electrocatalysts developed by combined computational and experimental approaches. <i>Chemical Society Reviews</i> , 2018 , 47, 4332-4356	58.5	154
97	TiO2 nanotube @ SnO2 nanoflake coreBranch arrays for lithium-ion battery anode. <i>Nano Energy</i> , 2014 , 4, 105-112	17.1	151
96	VO2 nanoflake arrays for supercapacitor and Li-ion battery electrodes: performance enhancement by hydrogen molybdenum bronze as an efficient shell material. <i>Materials Horizons</i> , 2015 , 2, 237-244	14.4	142
95	Transition metal dichalcogenides for alkali metal ion batteries: engineering strategies at the atomic level. <i>Energy and Environmental Science</i> , 2020 , 13, 1096-1131	35.4	135
94	Ultrafast-Charging Supercapacitors Based on Corn-Like Titanium Nitride Nanostructures. <i>Advanced Science</i> , 2016 , 3, 1500299	13.6	132
93	Novel Metal@Carbon Spheres CoreBhell Arrays by Controlled Self-Assembly of Carbon Nanospheres: A Stable and Flexible Supercapacitor Electrode. <i>Advanced Energy Materials</i> , 2015 , 5, 1401	709 ⁸	129
92	Graphene nanowires anchored to 3D graphene foam via self-assembly for high performance Li and Na ion storage. <i>Nano Energy</i> , 2017 , 37, 108-117	17.1	128
91	Sodium Vanadium Fluorophosphates (NVOPF) Array Cathode Designed for High-Rate Full Sodium Ion Storage Device. <i>Advanced Energy Materials</i> , 2018 , 8, 1800058	21.8	124
90	Atomic Engineering Catalyzed MnO Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density. <i>Advanced Materials</i> , 2020 , 32, e2001894	24	123
89	Hierarchical Porous LiNi1/3Co1/3Mn1/3O2 Nano-/Micro Spherical Cathode Material: Minimized Cation Mixing and Improved Li(+) Mobility for Enhanced Electrochemical Performance. <i>Scientific Reports</i> , 2016 , 6, 25771	4.9	122
88	Vanadate-Based Materials for Li-Ion Batteries: The Search for Anodes for Practical Applications. Advanced Energy Materials, 2019 , 9, 1803324	21.8	113

87	Simultaneous Regulation on Solvation Shell and Electrode Interface for Dendrite-Free Zn Ion Batteries Achieved by a Low-Cost Glucose Additive. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 18247-18255	16.4	113
86	Toward High-Voltage Aqueous Batteries: Super- or Low-Concentrated Electrolyte?. Joule, 2020, 4, 1846	- 1 851	102
85	Multi-shell hollow structured Sb2S3 for sodium-ion batteries with enhanced energy density. <i>Nano Energy</i> , 2019 , 60, 591-599	17.1	100
84	C-Plasma of Hierarchical Graphene Survives SnS Bundles for Ultrastable and High Volumetric Na-Ion Storage. <i>Advanced Materials</i> , 2018 , 30, e1804833	24	98
83	Vertical graphene/Ti2Nb10O29/hydrogen molybdenum bronze composite arrays for enhanced lithium ion storage. <i>Energy Storage Materials</i> , 2018 , 12, 137-144	19.4	93
82	Self-branched MnO2/EMnO2 heterojunction nanowires with enhanced pseudocapacitance. <i>Materials Horizons</i> , 2017 , 4, 415-422	14.4	89
81	Electron-State Confinement of Polysulfides for Highly Stable Sodium-Sulfur Batteries. <i>Advanced Materials</i> , 2020 , 32, e1907557	24	87
80	Revealing Principles for Design of Lean-Electrolyte Lithium Metal Anode via In Situ Spectroscopy. Journal of the American Chemical Society, 2020 , 142, 2012-2022	16.4	84
79	Integrated Photo-Supercapacitor Based on PEDOT Modified Printable Perovskite Solar Cell. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600074	6.8	82
78	Rapid Pseudocapacitive Sodium-Ion Response Induced by 2D Ultrathin Tin Monoxide Nanoarrays. <i>Advanced Functional Materials</i> , 2017 , 27, 1606232	15.6	81
77	Enhanced Lithium Storage Performance of CuO Nanowires by Coating of Graphene Quantum Dots. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400499	4.6	80
76	Mechanism for Zincophilic Sites on Zinc-Metal Anode Hosts in Aqueous Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003419	21.8	79
75	Unveiling the Advances of 2D Materials for Li/Na-S Batteries Experimentally and Theoretically. <i>Matter</i> , 2020 , 2, 323-344	12.7	78
74	Recent progress in surface coating of layered LiNi x Co y Mn z O 2 for lithium-ion batteries. <i>Materials Research Bulletin</i> , 2017 , 96, 491-502	5.1	76
73	Borophene as Efficient Sulfur Hosts for LithiumBulfur Batteries: Suppressing Shuttle Effect and Improving Conductivity. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 15549-15555	3.8	74
72	A scalable top-down strategy toward practical metrics of Ni Z n aqueous batteries with total energy densities of 165 W h kg I and 506 W h L I . Energy and Environmental Science, 2020 , 13, 4157-4167	35.4	72
71	Intercalation Na-ion storage in two-dimensional MoS2-xSex and capacity enhancement by selenium substitution. <i>Energy Storage Materials</i> , 2018 , 14, 136-142	19.4	72
70	A low-cost and one-step synthesis of N-doped monolithic quasi-graphene films with porous carbon frameworks for Li-ion batteries. <i>Nano Energy</i> , 2015 , 17, 43-51	17.1	68

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69	Electronic Modulation of Non-van der Waals 2D Electrocatalysts for Efficient Energy Conversion. <i>Advanced Materials</i> , 2021 , 33, e2008422	24	68	
68	Intercalation Pseudocapacitive Behavior Powers Aqueous Batteries. <i>CheM</i> , 2019 , 5, 1359-1361	16.2	66	
67	High-rate and ultra-stable Na-ion storage for Ni3S2 nanoarrays via self-adaptive pseudocapacitance. <i>Electrochimica Acta</i> , 2018 , 265, 709-716	6.7	63	
66	Revealing the Origin of Improved Reversible Capacity of Dual-Shell Bismuth Boxes Anode for Potassium-Ion Batteries. <i>Matter</i> , 2019 , 1, 1681-1693	12.7	62	
65	Graphene quantum dots-shielded Na3(VO)2(PO4)2F@C nanocuboids as robust cathode for Na-ion battery. <i>Energy Storage Materials</i> , 2016 , 5, 198-204	19.4	61	
64	Phase evolution of lithium intercalation dynamics in 2H-MoS. <i>Nanoscale</i> , 2017 , 9, 7533-7540	7.7	58	
63	Partial Nitridation-Induced Electrochemistry Enhancement of Ternary Oxide Nanosheets for Fiber Energy Storage Device. <i>Advanced Energy Materials</i> , 2018 , 8, 1800685	21.8	54	
62	Co2+/3+/4+-Regulated Electron State of Mn-O for Superb Aqueous Zinc-Manganese Oxide Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003203	21.8	54	
61	Targeted Synergy between Adjacent Co Atoms on Graphene Oxide as an Efficient New Electrocatalyst for LittO2 Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1904206	15.6	49	
60	An Electrolytic ZnMnO2 Battery for High-Voltage and Scalable Energy Storage. <i>Angewandte Chemie</i> , 2019 , 131, 7905-7910	3.6	49	
59	Self-adaptive electrochemical reconstruction boosted exceptional Li+ ion storage in a Cu3P@C anode. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18821-18826	13	48	
58	MoS2 architectures supported on graphene foam/carbon nanotube hybrid films: highly integrated frameworks with ideal contact for superior lithium storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17534-17543	13	47	
57	Al O -Assisted Confinement Synthesis of Oxide/Carbon Hollow Composite Nanofibers and Application in Metal-Ion Capacitors. <i>Small</i> , 2020 , 16, e2001950	11	47	
56	Flexible Pseudocapacitive Electrochromics via Inkjet Printing of Additive-Free Tungsten Oxide Nanocrystal Ink. <i>Advanced Energy Materials</i> , 2020 , 10, 2000142	21.8	45	
55	Is borophene a suitable anode material for sodium ion battery?. <i>Journal of Alloys and Compounds</i> , 2017 , 704, 152-159	5.7	44	
54	Toward greener lithium-ion batteries: Aqueous binder-based LiNi0.4Co0.2Mn0.4O2 cathode material with superior electrochemical performance. <i>Journal of Power Sources</i> , 2017 , 372, 180-187	8.9	44	
53	Ultrathin MoSe@N-doped carbon composite nanospheres for stable Na-ion storage. <i>Nanotechnology</i> , 2017 , 28, 42LT01	3.4	43	
52	1D nanobar-like LiNi0.4Co0.2Mn0.4O2 as a stable cathode material for lithium-ion batteries with superior long-term capacity retention and high rate capability. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15669-15675	13	43	

51	Boosting Zinc Electrode Reversibility in Aqueous Electrolytes by Using Low-Cost Antisolvents. <i>Angewandte Chemie</i> , 2021 , 133, 7442-7451	3.6	43
50	Hollow nickel nanocorn arrays as three-dimensional and conductive support for metal oxides to boost supercapacitive performance. <i>Nanoscale</i> , 2014 , 6, 5691-7	7.7	39
49	Refined Sulfur Nanoparticles Immobilized in Metal-Organic Polyhedron as Stable Cathodes for Li-S Battery. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 14328-33	9.5	38
48	The roles of lithium-philic giant nitrogen-doped graphene in protecting micron-sized silicon anode from fading. <i>Scientific Reports</i> , 2015 , 5, 15665	4.9	38
47	Amorphous GaN@Cu Freestanding Electrode for High-Performance Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1701808	15.6	37
46	Opportunities of Aqueous Manganese-Based Batteries with Deposition and Stripping Chemistry. <i>Advanced Energy Materials</i> , 2021 , 11, 2002904	21.8	37
45	Improvement in high-temperature performance of Co-free high-Fe AB5-type hydrogen storage alloys. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 12375-12383	6.7	34
44	Atomic-Layer-Deposited Amorphous MoS2 for Durable and Flexible Li©2 Batteries. <i>Small Methods</i> , 2020 , 4, 1900274	12.8	34
43	Design rules of heteroatom-doped graphene to achieve high performance lithium-sulfur batteries: Both strong anchoring and catalysing based on first principles calculation. <i>Journal of Colloid and Interface Science</i> , 2018 , 529, 426-431	9.3	33
42	Microwave-assisted production of giant graphene sheets for high performance energy storage applications. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12166-12170	13	30
41	Repeated microwave-assisted exfoliation of expandable graphite for the preparation of large scale and high quality multi-layer graphene. <i>RSC Advances</i> , 2013 , 3, 11601	3.7	30
40	Confined Fe2O3 Nanoparticles on Graphite Foam as High-Rate and Stable Lithium-Ion Battery Anode. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 487-492	3.1	29
39	Heterogeneous Nanostructures for Sodium Ion Batteries and Supercapacitors. <i>ChemNanoMat</i> , 2015 , 1, 458-476	3.5	25
38	A 2.0 V capacitive device derived from shape-preserved metal nitride nanorods. <i>Nano Energy</i> , 2016 , 26, 1-6	17.1	23
37	Sulfur-Based Aqueous Batteries: Electrochemistry and Strategies. <i>Journal of the American Chemical Society</i> , 2021 , 143, 15475-15489	16.4	23
36	Microscale Silicon-Based Anodes: Fundamental Understanding and Industrial Prospects for Practical High-Energy Lithium-Ion Batteries. <i>ACS Nano</i> , 2021 , 15, 15567-15593	16.7	23
35	Interface Synergistic Effect from Layered Metal Sulfides of MoS2/SnS2 van der Waals Heterojunction with Enhanced Li-Ion Storage Performance. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 24600-24608	3.8	22
34	An Energetic CuS-Cu Battery System Based on CuS Nanosheet Arrays. ACS Nano, 2021, 15, 5420-5427	16.7	20

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33	Nanoengineering of 2D tin sulfide nanoflake arrays incorporated on polyaniline nanofibers with boosted capacitive behavior. <i>2D Materials</i> , 2018 , 5, 031005	5.9	15
32	Surfactant-assisted encapsulation of uniform SnO 2 nanoparticles in graphene layers for high-performance Li-storage. <i>2D Materials</i> , 2015 , 2, 014005	5.9	15
31	The origin of capacity fluctuation and rescue of dead Mn-based ZnIbn batteries: a Mn-based competitive capacity evolution protocol. <i>Energy and Environmental Science</i> ,	35.4	15
30	Simultaneous Regulation on Solvation Shell and Electrode Interface for Dendrite-Free Zn Ion Batteries Achieved by a Low-Cost Glucose Additive. <i>Angewandte Chemie</i> , 2021 , 133, 18395-18403	3.6	14
29	Theoretical calculation and experimental verification of Zn3V3O8 as an insertion type anode for LIBs. <i>Journal of Alloys and Compounds</i> , 2018 , 730, 228-233	5.7	13
28	Ag Embedded Li3VO4 as Superior Anode for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A5295-A5300	3.9	12
27	Microstructures and electrochemical properties of LaNi3.8\(\mathbb{M}\)mnx hydrogen storage alloys. <i>Electrochimica Acta</i> , 2011 , 58, 668-673	6.7	11
26	Catalytic Oxidation of KS via Atomic Co and Pyridinic N Synergy in Potassium-Sulfur Batteries. Journal of the American Chemical Society, 2021 , 143, 16902-16907	16.4	11
25	Large size nitrogen-doped graphene-coated graphite for high performance lithium-ion battery anode. <i>RSC Advances</i> , 2016 , 6, 104010-104015	3.7	10
24	Composition optimization and electrochemical characteristics of Co-free Fe-containing AB5-type hydrogen storage alloys through uniform design. <i>Journal of Rare Earths</i> , 2012 , 30, 361-366	3.7	10
23	Revealing the Magnesium-Storage Mechanism in Mesoporous Bismuth via Spectroscopy and Ab-Initio Simulations. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 21728-21735	16.4	10
22	Hierarchical vertical graphene nanotube arrays via universal carbon plasma processing strategy: A platform for high-rate performance battery electrodes. <i>Energy Storage Materials</i> , 2019 , 18, 462-469	19.4	9
21	Steep capacity loss of discharged state metal-hydride electrode and its mechanism. <i>Electrochimica Acta</i> , 2012 , 66, 22-27	6.7	9
20	Advanced in situ technology for Li/Na metal anodes: an in-depth mechanistic understanding. <i>Energy and Environmental Science</i> , 2021 , 14, 3872-3911	35.4	9
19	Hierarchical porous LiNiCoMnO with yolk-shell-like architecture as stable cathode material for lithium-ion batteries <i>RSC Advances</i> , 2020 , 10, 18776-18783	3.7	8
18	Amorphous VO : A Pseudocapacitive Platform for High-Rate Symmetric Batteries. <i>Advanced Materials</i> , 2021 , 33, e2103736	24	8
17	Hydrogenated dual-shell sodium titanate cubes for sodium-ion batteries with optimized ion transportation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15829-15833	13	7
16	2D-VN MXene as a novel anode material for Li, Na and K ion batteries: Insights from the first-principles calculations. <i>Journal of Colloid and Interface Science</i> , 2021 , 593, 51-58	9.3	7

15	Three-dimensional TiNbO anchored on carbon nanofiber core-shell arrays as an anode for high-rate lithium ion storage <i>RSC Advances</i> , 2020 , 10, 6342-6350	3.7	6
14	Energetic Aqueous Batteries. Advanced Energy Materials, 2201074	21.8	6
13	Making MXenes more energetic in aqueous battery. <i>Matter</i> , 2022 , 5, 8-10	12.7	5
12	Surface-Electronic-Structure Reconstruction of Perovskite via Double-Cation Gradient Etching for Superior Water Oxidation. <i>Nano Letters</i> , 2021 , 21, 8166-8174	11.5	5
11	Unusual Mesoporous Titanium Niobium Oxides Realizing Sodium-Ion Batteries Operated at -40 IIC <i>Advanced Materials</i> , 2022 , e2202873	24	5
10	Effects of Co Substitution for Ni on Microstructures and Electrochemical Properties of LaNi3.8 Hydrogen Storage Alloys. <i>Rare Metal Materials and Engineering</i> , 2014 , 43, 519-524		4
9	Revealing the Magnesium-Storage Mechanism in Mesoporous Bismuth via Spectroscopy and Ab-Initio Simulations. <i>Angewandte Chemie</i> , 2020 , 132, 21912-21919	3.6	3
8	Hybrid Aqueous Batteries: Atomic Engineering Catalyzed MnO2 Electrolysis Kinetics for a Hybrid Aqueous Battery with High Power and Energy Density (Adv. Mater. 25/2020). <i>Advanced Materials</i> , 2020 , 32, 2070191	24	2
7	Influence factors of capacity loss after short-time standing of metal-hydride electrode and its EIS model. <i>Journal of Rare Earths</i> , 2013 , 31, 772-777	3.7	2
6	Synchrotron X-ray Spectroscopic Investigations of In-Situ Formed Alloy Anodes for Magnesium Batteries <i>Advanced Materials</i> , 2021 , e2108688	24	2
5	Vanadium Pentoxide for Li-Ion Storage. <i>Springer Theses</i> , 2019 , 29-50	0.1	1
4	C-plasma derived precise volumetric buffering for high-rate and stable alloying-type energy storage. <i>Nano Energy</i> , 2021 , 80, 105557	17.1	О
3	Vanadium Dioxide for Li- and Na-Ion Storage. <i>Springer Theses</i> , 2019 , 51-73	0.1	
2	Na3(VO)2(PO4)2F Array for Cathode of Na-Ion Battery. <i>Springer Theses</i> , 2019 , 75-91	0.1	
1	SnS Array for Anode of Na-lon Battery. <i>Springer Theses</i> , 2019 , 93-115	0.1	