

Yanfeng Dong

List of Publications by Year in descending order

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63
papers

7,115
citations

87723

38
h-index

110170

64
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65
docs citations

65
times ranked

8960
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing lithium-sulphur battery performance by strongly binding the discharge products on amino-functionalized reduced graphene oxide. <i>Nature Communications</i> , 2014, 5, 5002.	5.8	892
2	Sustainable Synthesis and Assembly of Biomass-Derived B/N Co-Doped Carbon Nanosheets with Ultrahigh Aspect Ratio for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , 2016, 26, 111-119.	7.8	607
3	Alkalized Ti ₃ C ₂ MXene nanoribbons with expanded interlayer spacing for high-capacity sodium and potassium ion batteries. <i>Nano Energy</i> , 2017, 40, 1-8.	8.2	549
4	Ti ₃ C ₂ MXene-Derived Sodium/Potassium Titanate Nanoribbons for High-Performance Sodium/Potassium Ion Batteries with Enhanced Capacities. <i>ACS Nano</i> , 2017, 11, 4792-4800.	7.3	544
5	All-MXene-Based Integrated Electrode Constructed by Ti ₃ C ₂ Nanoribbon Framework Host and Nanosheet Interlayer for High-Energy-Density Li-S Batteries. <i>ACS Nano</i> , 2018, 12, 2381-2388.	7.3	340
6	2D transition metal carbide MXene as a robust biosensing platform for enzyme immobilization and ultrasensitive detection of phenol. <i>Biosensors and Bioelectronics</i> , 2018, 107, 69-75.	5.3	251
7	A Top-Down Strategy toward 3D Carbon Nanosheet Frameworks Decorated with Hollow Nanostructures for Superior Lithium Storage. <i>Advanced Functional Materials</i> , 2016, 26, 7590-7598.	7.8	201
8	Graphene: a promising 2D material for electrochemical energy storage. <i>Science Bulletin</i> , 2017, 62, 724-740.	4.3	198
9	Recent Advances and Promise of MXene-Based Nanostructures for High-Performance Metal Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2000706.	7.8	192
10	3D Flexible, Conductive, and Recyclable Ti ₃ C ₂ T _x MXene-Melamine Foam for High-Areal-Capacity and Long-Lifetime Alkali-Metal Anode. <i>ACS Nano</i> , 2020, 14, 8678-8688.	7.3	164
11	Conducting and Lithiophilic MXene/Graphene Framework for High-Capacity, Dendrite-Free Lithium-Metal Anodes. <i>ACS Nano</i> , 2019, 13, 14308-14318.	7.3	155
12	Freestanding Flexible Li ₂ S Paper Electrode with High Mass and Capacity Loading for High-Energy Li-S Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700018.	10.2	152
13	Free-standing integrated cathode derived from 3D graphene/carbon nanotube aerogels serving as binder-free sulfur host and interlayer for ultrahigh volumetric-energy-density lithium sulfur batteries. <i>Nano Energy</i> , 2019, 60, 743-751.	8.2	151
14	Carbon-Stabilized Interlayer-Expanded Few-Layer MoSe ₂ Nanosheets for Sodium Ion Batteries with Enhanced Rate Capability and Cycling Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32324-32332.	4.0	128
15	Ionic liquid pre-intercalated MXene films for ionogel-based flexible micro-supercapacitors with high volumetric energy density. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9478-9485.	5.2	120
16	A Two-Dimensional Mesoporous Polypyrrole-Graphene Oxide Heterostructure as a Dual-Functional Ion Redistributor for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12147-12153.	7.2	115
17	Interlayer expanded MoS ₂ enabled by edge effect of graphene nanoribbons for high performance lithium and sodium ion batteries. <i>Carbon</i> , 2016, 109, 461-471.	5.4	114
18	Sulfur-infiltrated graphene-backed mesoporous carbon nanosheets with a conductive polymer coating for long-life lithium-sulfur batteries. <i>Nanoscale</i> , 2015, 7, 7569-7573.	2.8	106

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19	Hierarchical Ordered Dual-Mesoporous Polypyrrole/Graphene Nanosheets as Bi-Functional Active Materials for High-Performance Planar Integrated System of Micro-Supercapacitor and Gas Sensor. <i>Advanced Functional Materials</i> , 2020, 30, 1909756.	7.8	106
20	Flexible Paper-like Free-Standing Electrodes by Anchoring Ultrafine SnS ₂ Nanocrystals on Graphene Nanoribbons for High-Performance Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15484-15491.	4.0	102
21	Cellular carbon-wrapped FeSe ₂ nanocavities with ultrathin walls and multiple rooms for ion diffusion-confined ultrafast sodium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4469-4479.	5.2	101
22	Dually Fixed SnO ₂ Nanoparticles on Graphene Nanosheets by Polyaniline Coating for Superior Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 2444-2451.	4.0	99
23	Low temperature plasma synthesis of mesoporous Fe ₃ O ₄ nanorods grafted on reduced graphene oxide for high performance lithium storage. <i>Nanoscale</i> , 2014, 6, 2286.	2.8	97
24	High Packing Density Unidirectional Arrays of Vertically Aligned Graphene with Enhanced Areal Capacitance for High-Power Micro-Supercapacitors. <i>ACS Nano</i> , 2017, 11, 4009-4016.	7.3	96
25	Recent progress of carbon nanomaterials for high-performance cathodes and anodes in aqueous zinc ion batteries. <i>Energy Storage Materials</i> , 2021, 41, 715-737.	9.5	93
26	Highly safe and ionothermal synthesis of Ti ₃ C ₂ MXene with expanded interlayer spacing for enhanced lithium storage. <i>Journal of Energy Chemistry</i> , 2020, 47, 203-209.	7.1	91
27	Ionogel-based sodium ion micro-batteries with a 3D Na-ion diffusion mechanism enable ultrahigh rate capability. <i>Energy and Environmental Science</i> , 2020, 13, 821-829.	15.6	82
28	2D holey cobalt sulfide nanosheets derived from metal-organic frameworks for high-rate sodium ion batteries with superior cyclability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14324-14329.	5.2	81
29	Nanopore-confined g-C ₃ N ₄ nanodots in N, S co-doped hollow porous carbon with boosted capacity for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7133-7141.	5.2	80
30	Nitrogen-rich carbon coupled multifunctional metal oxide/graphene nanohybrids for long-life lithium storage and efficient oxygen reduction. <i>Nano Energy</i> , 2015, 12, 578-587.	8.2	76
31	Nitrogen-doped graphene nanoribbons for high-performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16832-16835.	5.2	75
32	Urea-Mediated Monoliths Made of Nitrogen-Enriched Mesoporous Carbon Nanosheets for High-Performance Aqueous Zinc Ion Hybrid Capacitors. <i>Small</i> , 2022, 18, e2108057.	5.2	69
33	Nitrogen-doped carbon nanotubes decorated with cobalt nanoparticles derived from zeolitic imidazolate framework-67 for highly efficient oxygen reduction reaction electrocatalysis. <i>Carbon</i> , 2018, 132, 580-588.	5.4	68
34	Pyridinic nitrogen enriched porous carbon derived from bimetal organic frameworks for high capacity zinc ion hybrid capacitors with remarkable rate capability. <i>Journal of Energy Chemistry</i> , 2021, 56, 404-411.	7.1	60
35	Multifunctional nitrogen-doped graphene nanoribbon aerogels for superior lithium storage and cell culture. <i>Nanoscale</i> , 2016, 8, 2159-2167.	2.8	50
36	Graphene encapsulated iron nitrides confined in 3D carbon nanosheet frameworks for high-rate lithium ion batteries. <i>Carbon</i> , 2020, 159, 213-220.	5.4	49

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37	Towards efficient electrocatalysts for oxygen reduction by doping cobalt into graphene-supported graphitic carbon nitride. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19657-19661.	5.2	47
38	Self-assembled sulfur/reduced graphene oxide nanoribbon paper as a free-standing electrode for high performance lithium-sulfur batteries. <i>Chemical Communications</i> , 2016, 52, 12825-12828.	2.2	39
39	2D hierarchical yolk-shell heterostructures as advanced host-interlayer integrated electrode for enhanced Li-S batteries. <i>Journal of Energy Chemistry</i> , 2019, 36, 64-73.	7.1	39
40	Three dimensional Ti ₃ C ₂ MXene nanoribbon frameworks with uniform potassiophilic sites for the dendrite-free potassium metal anodes. <i>Nanoscale Advances</i> , 2020, 2, 4212-4219.	2.2	39
41	Redistributing Zn ion flux by bifunctional graphitic carbon nitride nanosheets for dendrite-free zinc metal anodes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27408-27414.	5.2	37
42	Ultrasmall MoS ₂ Nanosheets Mosaiced into Nitrogen-Doped Hierarchical Porous Carbon Matrix for Enhanced Sodium Storage Performance. <i>Electrochimica Acta</i> , 2017, 225, 369-377.	2.6	36
43	All-Solid-State Planar Sodium-Ion Microcapacitors with Multidirectional Fast Ion Diffusion Pathways. <i>Advanced Science</i> , 2019, 6, 1902147.	5.6	34
44	Tailor-made graphene aerogels with inbuilt baffle plates by charge-induced template-directed assembly for high-performance Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21842-21848.	5.2	33
45	Compressible graphene aerogel supported CoO nanostructures as a binder-free electrode for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 8929-8932.	1.7	32
46	Ultrafine Fe ₃ O ₄ Quantum Dots on Hybrid Carbon Nanosheets for Long-Life, High-Rate Alkali-Metal Storage. <i>ChemElectroChem</i> , 2016, 3, 38-44.	1.7	32
47	General synthesis of zeolitic imidazolate framework-derived planar-N-doped porous carbon nanosheets for efficient oxygen reduction. <i>Energy Storage Materials</i> , 2017, 7, 181-188.	9.5	31
48	Rational design of metal oxide hollow nanostructures decorated carbon nanosheets for superior lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17718-17725.	5.2	30
49	Simplified fabrication of high areal capacitance all-solid-state micro-supercapacitors based on graphene and MnO ₂ nanosheets. <i>Chinese Chemical Letters</i> , 2018, 29, 582-586.	4.8	28
50	Advanced design of cathodes and interlayers for high-performance lithium-selenium batteries. <i>SusMat</i> , 2021, 1, 393-412.	7.8	26
51	A Two-Dimensional Mesoporous Polypyrrole-Graphene Oxide Heterostructure as a Dual-Functional Ion Redistributor for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2020, 132, 12245-12251.	1.6	21
52	Flexible and high-energy-density Zn/MnO ₂ batteries enabled by electrochemically exfoliated graphene nanosheets. <i>New Journal of Chemistry</i> , 2020, 44, 653-657.	1.4	20
53	A porous membrane electrolyte enabled by poly(biphenyl piperidinium triphenylmethane) for dendrite-free zinc anode with enhanced cycling life. <i>Chemical Engineering Journal</i> , 2022, 437, 135409.	6.6	16
54	Easy synthesis of MnO-graphene hybrids for high-performance lithium storage. <i>New Carbon Materials</i> , 2014, 29, 316-321.	2.9	15

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55	2D hybrid interlayer of electrochemically exfoliated graphene and $\text{Co}(\text{OH})_2$ nanosheet as a bi-functionalized polysulfide barrier for high-performance lithium-sulfur batteries. <i>JPhys Energy</i> , 2019, 1, 015002.	2.3	15
56	Graphene-nanoscroll-based Janus bifunctional separators suppress lithium dendrites and polysulfides shuttling synchronously in high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9515-9523.	5.2	15
57	Defective MnO_2 nanosheets based free-standing and high mass loading electrodes for high energy density aqueous zinc ion batteries. <i>Materials Chemistry Frontiers</i> , 2021, 5, 8002-8009.	3.2	14
58	Synthesis of 3D Flower-like Nanocomposites of Nitrogen-Doped Carbon Nanosheets Embedded with Hollow Cobalt(II,III) Oxide Nanospheres for Lithium Storage. <i>ChemElectroChem</i> , 2017, 4, 102-108.	1.7	13
59	Manipulating Horizontal Zn Deposition with Graphene Interpenetrated Zn Hybrid Foils for $\langle \text{scp} \rangle$ Dendrite-free Aqueous Zinc Ion Batteries. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	13
60	Embedding Co_3O_4 nanoparticles into graphene nanoscrolls as anode for lithium ion batteries with superior capacity and outstanding cycling stability. <i>Progress in Natural Science: Materials International</i> , 2018, 28, 212-217.	1.8	9
61	Hybrid Nanostructures: Recent Advances and Promise of MXene-Based Nanostructures for High-Performance Metal Ion Batteries (<i>Adv. Funct. Mater.</i> 47/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070310.	7.8	4
62	Facile one-step synthesis of highly graphitized hierarchical porous carbon nanosheets with large surface area and high capacity for lithium storage. <i>RSC Advances</i> , 2016, 6, 51146-51152.	1.7	2
63	A general strategy based on the self-evolution of building blocks for the construction of one-dimensional hierarchically super-structured TiO_2 fibres. <i>CrystEngComm</i> , 2020, 22, 4359-4362.	1.3	1