

Deping Li

List of Publications by Year in descending order

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90
papers

4,920
citations

94269

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docs citations

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times ranked

5511
citing authors

#	ARTICLE	IF	CITATIONS
1	Facile Fabrication of Nitrogen-Doped Porous Carbon as Superior Anode Material for Potassium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1802386.	10.2	393
2	Commercial expanded graphite as a low-cost, long-cycling life anode for potassium-ion batteries with conventional carbonate electrolyte. <i>Journal of Power Sources</i> , 2018, 378, 66-72.	4.0	299
3	High performance agar/graphene oxide composite aerogel for methylene blue removal. <i>Carbohydrate Polymers</i> , 2017, 155, 345-353.	5.1	251
4	Micron-Sized Nanoporous Antimony with Tunable Porosity for High-Performance Potassium-Ion Batteries. <i>ACS Nano</i> , 2018, 12, 12932-12940.	7.3	223
5	High performance graphene oxide nanofiltration membrane prepared by electrospinning for wastewater purification. <i>Carbon</i> , 2018, 130, 487-494.	5.4	144
6	Graphene oxide based membrane intercalated by nanoparticles for high performance nanofiltration application. <i>Chemical Engineering Journal</i> , 2018, 347, 12-18.	6.6	143
7	Foldable potassium-ion batteries enabled by free-standing and flexible SnS ₂ @C nanofibers. <i>Energy and Environmental Science</i> , 2021, 14, 424-436.	15.6	142
8	A large-area free-standing graphene oxide multilayer membrane with high stability for nanofiltration applications. <i>Chemical Engineering Journal</i> , 2018, 345, 536-544.	6.6	136
9	Lithium Dendrite Suppression and Enhanced Interfacial Compatibility Enabled by an Ex Situ SEI on Li Anode for LAGP-Based All-Solid-State Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18610-18618.	4.0	123
10	Hierarchically porous carbon supported Sn ₄ P ₃ as a superior anode material for potassium-ion batteries. <i>Energy Storage Materials</i> , 2019, 23, 367-374.	9.5	120
11	Structural Engineering of SnS ₂ Encapsulated in Carbon Nanoboxes for High-Performance Sodium/Potassium-Ion Batteries Anodes. <i>Small</i> , 2020, 16, e2005023.	5.2	120
12	Flexible all-solid-state supercapacitors based on freestanding, binder-free carbon nanofibers@polypyrrole@graphene film. <i>Chemical Engineering Journal</i> , 2018, 334, 184-190.	6.6	113
13	Core-shell structured carbon nanofibers yarn@polypyrrole@graphene for high performance all-solid-state fiber supercapacitors. <i>Carbon</i> , 2018, 138, 264-270.	5.4	110
14	Nitrogen-doped carbon derived from pre-oxidized pitch for surface dominated potassium-ion storage. <i>Carbon</i> , 2019, 155, 601-610.	5.4	110
15	Hierarchical layer-by-layer porous FeCo ₂ S ₄ @Ni(OH) ₂ arrays for all-solid-state asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20480-20490.	5.2	102
16	Surface-confined SnS ₂ @C@rGO as High-Performance Anode Materials for Sodium- and Potassium-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 2689-2700.	3.6	98
17	Lithium-conducting covalent-organic-frameworks as artificial solid-electrolyte-interphase on silicon anode for high performance lithium ion batteries. <i>Nano Energy</i> , 2020, 72, 104657.	8.2	93
18	Li ₇ P ₃ S ₁₁ /poly(ethylene oxide) hybrid solid electrolytes with excellent interfacial compatibility for all-solid-state batteries. <i>Journal of Power Sources</i> , 2018, 400, 212-217.	4.0	88

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19	Potassium gluconate-derived N/S Co-doped carbon nanosheets as superior electrode materials for supercapacitors and sodium-ion batteries. <i>Journal of Power Sources</i> , 2019, 414, 308-316.	4.0	87
20	High efficient adsorption and storage of iodine on S, N co-doped graphene aerogel. <i>Journal of Hazardous Materials</i> , 2019, 373, 705-715.	6.5	73
21	Walnut-inspired micro-sized porous silicon/graphene core-shell composites for high-performance lithium-ion battery anodes. <i>Nano Research</i> , 2017, 10, 4274-4283.	5.8	72
22	Self-supported multidimensional Ni-Fe phosphide networks with holey nanosheets for high-performance all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17386-17399.	5.2	72
23	Nitrogen and sulfur co-doped porous carbon fibers film for flexible symmetric all-solid-state supercapacitors. <i>Carbon</i> , 2020, 158, 456-464.	5.4	72
24	Dendrite-free Li metal anode enabled by a 3D free-standing lithiophilic nitrogen-enriched carbon sponge. <i>Journal of Power Sources</i> , 2018, 386, 77-84.	4.0	65
25	High-performance red phosphorus/carbon nanofibers/graphene free-standing paper anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1574-1581.	5.2	65
26	Tunable synthesis of Li_xMnO_2 nanowires for aqueous Li-ion hybrid supercapacitor with high rate capability and ultra-long cycle life. <i>Journal of Power Sources</i> , 2019, 413, 302-309.	4.0	63
27	Surfactant-dependent flower- and grass-like $\text{Zn}_{0.76}\text{Co}_{0.24}\text{S}/\text{Co}_3\text{S}_4$ for high-performance all-solid-state asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22830-22839.	5.2	60
28	Effective synthetic strategy for $\text{Zn}_{0.76}\text{Co}_{0.24}\text{S}$ encapsulated in stabilized N-doped carbon nanoarchitecture towards ultra-long-life hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14670-14680.	5.2	59
29	Ultrathin carbon nanosheets for highly efficient capacitive K-ion and Zn-ion storage. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22874-22885.	5.2	58
30	Synergic mechanism of adsorption and metal-free catalysis for phenol degradation by N-doped graphene aerogel. <i>Chemosphere</i> , 2018, 191, 389-399.	4.2	54
31	Artificial Solid Electrolyte Interphase Coating to Reduce Lithium Trapping in Silicon Anode for High Performance Lithium-ion Batteries. <i>Advanced Materials Interfaces</i> , 2019, 6, 1901187.	1.9	54
32	Sandwich-like FeCl_3/C as High-Performance Anode Materials for Potassium-ion Batteries. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800606.	1.9	53
33	Facilely tunable core-shell Si/SiO_x nanostructures prepared in aqueous solution for lithium ion battery anode. <i>Electrochimica Acta</i> , 2020, 342, 136068.	2.6	52
34	Nanostructured LiMn_2O_4 composite as high-rate cathode for high performance aqueous Li-ion hybrid supercapacitors. <i>Journal of Power Sources</i> , 2018, 392, 116-122.	4.0	46
35	In Situ Synthesis of a Lithiophilic Ag-Nanoparticles-Decorated 3D Porous Carbon Framework toward Dendrite-Free Lithium Metal Anodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15219-15227.	3.2	43
36	Sheet-like garnet structure design for upgrading PEO-based electrolyte. <i>Chemical Engineering Journal</i> , 2022, 429, 132343.	6.6	42

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37	Potassium pre-inserted K _{1.04} Mn ₈ O ₁₆ as cathode materials for aqueous Li-ion and Na-ion hybrid capacitors. <i>Journal of Energy Chemistry</i> , 2020, 46, 53-61.	7.1	40
38	Cold-pressing PEO/LAGP composite electrolyte for integrated all-solid-state lithium metal battery. <i>Solid State Ionics</i> , 2020, 345, 115156.	1.3	40
39	Reduced graphene oxide decorated Pt activated SnO ₂ nanoparticles for enhancing methanol sensing performance. <i>Journal of Alloys and Compounds</i> , 2018, 762, 8-15.	2.8	39
40	Integrated nanocomposite of LiMn ₂ O ₄ /graphene/carbon nanotubes with pseudocapacitive properties as superior cathode for aqueous hybrid capacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019, 842, 74-81.	1.9	38
41	Fast and stable K-ion storage enabled by synergistic interlayer and pore-structure engineering. <i>Nano Research</i> , 2021, 14, 4502-4511.	5.8	36
42	Guest ions pre-intercalation strategy of manganese-oxides for supercapacitor and battery applications. <i>Journal of Energy Chemistry</i> , 2021, 60, 480-493.	7.1	36
43	Reduced graphene oxide wrapped Au@ZnO core-shell structure for highly selective triethylamine gas sensing application at a low temperature. <i>Sensors and Actuators A: Physical</i> , 2018, 283, 128-133.	2.0	34
44	Safe and Stable Lithium Metal Batteries Enabled by an Amide-Based Electrolyte. <i>Nano-Micro Letters</i> , 2022, 14, 44.	14.4	34
45	Growth direction control of lithium dendrites in a heterogeneous lithiophilic host for ultra-safe lithium metal batteries. <i>Journal of Power Sources</i> , 2019, 416, 141-147.	4.0	31
46	Lightweight graphene oxide-based sponges with high compressibility and durability for dye adsorption. <i>Carbon</i> , 2020, 160, 54-63.	5.4	30
47	Stable lithium metal anode enabled by an artificial multi-phase composite protective film. <i>Journal of Power Sources</i> , 2020, 448, 227547.	4.0	30
48	Mesoporous Mn ₂ O ₃ rods as a highly efficient catalyst for Li-O ₂ battery. <i>Journal of Power Sources</i> , 2019, 435, 226833.	4.0	29
49	Carbon aerogel reinforced PDMS nanocomposites with controllable and hierarchical microstructures for multifunctional wearable devices. <i>Carbon</i> , 2021, 171, 758-767.	5.4	29
50	Ag doped urchin-like δ -MnO ₂ toward efficient and bifunctional electrocatalysts for Li-O ₂ batteries. <i>Nano Research</i> , 2020, 13, 2356-2364.	5.8	27
51	Facile construction of a hybrid artificial protective layer for stable lithium metal anode. <i>Chemical Engineering Journal</i> , 2020, 391, 123542.	6.6	25
52	Rational construction of ternary ZnNiP arrayed structures derived from 2D MOFs for advanced hybrid supercapacitors and Zn batteries. <i>Electrochimica Acta</i> , 2021, 387, 138548.	2.6	25
53	Enhanced Air and Electrochemical Stability of Li ₇ P ₃ S ₁₁ -Based Solid Electrolytes Enabled by Aliovalent Substitution of SnO ₂ . <i>Advanced Materials Interfaces</i> , 2021, 8, 2100368.	1.9	24
54	Enhanced plant antioxidant capacity and biodegradation of phenol by immobilizing peroxidase on amphoteric nitrogen-doped carbon dots. <i>Catalysis Communications</i> , 2020, 134, 105847.	1.6	22

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55	Impacts of surface chemistry of functional carbon nanodots on the plant growth. <i>Ecotoxicology and Environmental Safety</i> , 2020, 206, 111220.	2.9	22
56	Bifunctional In Situ Polymerized Interface for Stable LAGP-Based Lithium Metal Batteries. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100072.	1.9	22
57	Focusing on the Subsequent Coulombic Efficiencies of SiO _x : Initial High-Temperature Charge after Over-Capacity Prelithiation for High-Efficiency SiO _x -Based Full-Cell Battery. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14284-14292.	4.0	22
58	High Current Enabled Stable Lithium Anode for Ultralong Cycling Life of Lithium-Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30793-30800.	4.0	21
59	Boron-doped graphene coated Au@SnO ₂ for high-performance triethylamine gas detection. <i>Materials Chemistry and Physics</i> , 2020, 239, 121961.	2.0	21
60	Enhanced bioaccumulation efficiency and tolerance for Cd (â€¦) in <i>Arabidopsis thaliana</i> by amphoteric nitrogen-doped carbon dots. <i>Ecotoxicology and Environmental Safety</i> , 2020, 190, 110108.	2.9	21
61	Enhanced Cycling Performance of Li-O ₂ Battery by Using a Li ₃ PO ₄ -Protected Lithium Anode in DMSO-Based Electrolyte. <i>ACS Applied Energy Materials</i> , 2018, 1, 5511-5517.	2.5	20
62	Green and facile synthesis of nanosized polythiophene as an organic anode for high-performance potassium-ion battery. <i>Functional Materials Letters</i> , 2018, 11, 1840003.	0.7	20
63	A novel coral-like garnet for high-performance PEO-based all solid-state batteries. <i>Science China Materials</i> , 2022, 65, 364-372.	3.5	20
64	Reduced graphene oxide/SnO ₂ @Au heterostructure for enhanced ammonia gas sensing. <i>Chemical Physics Letters</i> , 2019, 737, 136829.	1.2	19
65	Phosphorous-doped bimetallic sulfides embedded in heteroatom-doped carbon nanoarrays for flexible all-solid-state supercapacitors. <i>Science China Materials</i> , 2021, 64, 2439-2453.	3.5	19
66	Li ₇ P ₃ S ₁₁ solid electrolyte coating silicon for high-performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2018, 276, 325-332.	2.6	18
67	Li ₂ CO ₃ : Insights into Its Blocking Effect on Li-Ion Transfer in Garnet Composite Electrolytes. <i>ACS Applied Energy Materials</i> , 2022, 5, 2853-2861.	2.5	17
68	Functional carbon nanodots improve soil quality and tomato tolerance in saline-alkali soils. <i>Science of the Total Environment</i> , 2022, 830, 154817.	3.9	17
69	Effects of functional carbon nanodots on water hyacinth response to Cd/Pb stress: Implication for phytoremediation. <i>Journal of Environmental Management</i> , 2021, 299, 113624.	3.8	15
70	Carbon Nanotubes-Based Electrocatalysts: Structural Regulation, Support Effect, and Synchrotron-Based Characterization. <i>Advanced Functional Materials</i> , 2022, 32, 2106684.	7.8	14
71	In situ construction of a flexible interlayer for durable solid-state lithium metal batteries. <i>Carbon</i> , 2022, 187, 13-21.	5.4	13
72	Bio-inspired multiple-stimuli responsive porous materials with switchable flexibility and programmable shape morphing capability. <i>Carbon</i> , 2020, 161, 702-711.	5.4	12

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73	Synergistic double-shell coating of graphene and Li ₄ SiO ₄ on silicon for high performance lithium-ion battery application. <i>Diamond and Related Materials</i> , 2018, 88, 60-66.	1.8	11
74	Lewis Acidity Organoboronâ€Modified Liâ€Rich Cathode Materials for Highâ€Performance Lithiumâ€Ion Batteries. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002113.	1.9	11
75	Flexible rGO @ Nonwoven Fabricsâ€™ Membranes Guide Stable Lithium Metal Anodes for Lithiumâ€Oxygen Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 7944-7951.	2.5	9
76	Enhanced Electrochemical Performance of Li _{1.2} [Mn _{0.54} Co _{0.13} Ni _{0.13}]O ₂ Enabled by Synergistic Effect of Li _{1.5} Na _{0.5} SiO ₃ Modification. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000378.	1.9	9
77	Reversible LiOH chemistry in Li-O ₂ batteries with free-standing Ag ⁺ -MnO ₂ nanoflower cathode. <i>Science China Materials</i> , 2022, 65, 1431-1442.	3.5	9
78	Interlayer Engineering of K ₂ MnO ₂ Enables Superior Alkali Metal Ion Storage for Advanced Hybrid Capacitors. <i>ChemElectroChem</i> , 2022, 9, .	1.7	9
79	Ag ⁺ preintercalation enabling high performance Ag _x MnO ₂ cathode for aqueous Li-ion and Na-ion hybrid supercapacitors. <i>Journal of Power Sources</i> , 2021, 484, 229316.	4.0	8
80	Potassium Ions Regulated the Disproportionation of Silicon Monoxide Boosting Its Performance for Lithium-ion Battery Anodes. <i>Energy & Fuels</i> , 2021, 35, 16202-16211.	2.5	8
81	A high-energy, long cycle life aqueous hybrid supercapacitor enabled by efficient battery electrode and widened potential window. <i>Journal of Alloys and Compounds</i> , 2021, 877, 160273.	2.8	8
82	Low-cost and facile synthesis of LAGP solid state electrolyte via a co-precipitation method. <i>Applied Physics Letters</i> , 2022, 121, 023904.	1.5	8
83	Trash to treasure: recycling discarded agarose gel for practical Na/K-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 15026-15035.	5.2	7
84	Ballâ€Milling Strategy for Fast and Stable Potassiumâ€Ion Storage in Antimonyâ€Carbon Composite Anodes. <i>ChemElectroChem</i> , 2020, 7, 4587-4593.	1.7	6
85	Spontaneous In Situ Surface Alloying of Li-Zn Derived from a Novel Zn ²⁺ -Containing Solid Polymer Electrolyte for Steady Cycling of Li Metal Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 4282-4292.	3.2	4
86	One-step synthesis of hollow urchin-like Ag ₂ Mn ₈ O ₁₆ for long-life Li-O ₂ battery. <i>Journal of Alloys and Compounds</i> , 2022, 892, 162137.	2.8	4
87	Ag _x Mn ₈ O ₁₆ Cathode Enables High-Performance Aqueous Li-Ion Hybrid Supercapacitors. <i>Energy & Fuels</i> , 2021, 35, 15101-15107.	2.5	3
88	Investigation of the gas-sensitive properties for methanol detection based on ZnO/SnO ₂ heterostructure. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 392, 032016.	0.3	2
89	Biomimetics: from biological cells to battery cells. <i>Science Bulletin</i> , 2021, 66, 1054-1055.	4.3	2
90	Enhanced ions and electrons transmission enables high-performance K _x MnO@C cathode for hybrid supercapacitors. <i>Ceramics International</i> , 2022, 48, 16516-16521.	2.3	2