Deping Li

List of Publications by Year
in descending order

90	4,920	94269 37	98622 67
papers	citations	h-index	g-index

93	93	93	5511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel coral-like garnet for high-performance PEO-based all solid-state batteries. Science China Materials, 2022, 65, 364-372.	3.5	20
2	One-step synthesis of hollow urchin-like Ag2Mn8O16 for long-life Li-O2 battery. Journal of Alloys and Compounds, 2022, 892, 162137.	2.8	4
3	Sheet-like garnet structure design for upgrading PEO-based electrolyte. Chemical Engineering Journal, 2022, 429, 132343.	6.6	42
4	In situ construction of a flexible interlayer for durable solid-state lithium metal batteries. Carbon, 2022, 187, 13-21.	5.4	13
5	Carbon Nanotubesâ€Based Electrocatalysts: Structural Regulation, Support Effect, and Synchrotronâ€Based Characterization. Advanced Functional Materials, 2022, 32, 2106684.	7.8	14
6	Safe and Stable Lithium Metal Batteries Enabled by an Amide-Based Electrolyte. Nano-Micro Letters, 2022, 14, 44.	14.4	34
7	Reversible LiOH chemistry in Li-O2 batteries with free-standing Ag/Î´-MnO2 nanoflower cathode. Science China Materials, 2022, 65, 1431-1442.	3.5	9
8	Li₂CO₃: Insights into Its Blocking Effect on Li-Ion Transfer in Garnet Composite Electrolytes. ACS Applied Energy Materials, 2022, 5, 2853-2861.	2.5	17
9	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. ACS Applied Materials & Interfaces, 2022, 14, 14284-14292.	4.0	22
10	Enhanced ions and electrons transmission enables high-performance KxMnO@C cathode for hybrid supercapacitors. Ceramics International, 2022, 48, 16516-16521.	2.3	2
11	Functional carbon nanodots improve soil quality and tomato tolerance in saline-alkali soils. Science of the Total Environment, 2022, 830, 154817.	3.9	17
12	Trash to treasure: recycling discarded agarose gel for practical Na/K-ion batteries. Journal of Materials Chemistry A, 2022, 10, 15026-15035.	5.2	7
13	Interlayer Engineering of K_xMnO₂ Enables Superior Alkali Metal Ion Storage for Advanced Hybrid Capacitors. ChemElectroChem, 2022, 9, .	1.7	9
14	Low-cost and facile synthesis of LAGP solid state electrolyte via a co-precipitation method. Applied Physics Letters, 2022, 121, 023904.	1.5	8
15	Carbon aerogel reinforced PDMS nanocomposites with controllable and hierarchical microstructures for multifunctional wearable devices. Carbon, 2021, 171, 758-767.	5.4	29
16	Ag+ preintercalation enabling high performance AgxMnO2 cathode for aqueous Li-ion and Na-ion hybrid supercapacitors. Journal of Power Sources, 2021, 484, 229316.	4.0	8
17	Foldable potassium-ion batteries enabled by free-standing and flexible SnS₂@C nanofibers. Energy and Environmental Science, 2021, 14, 424-436.	15.6	142
18	Fast and stable K-ion storage enabled by synergistic interlayer and pore-structure engineering. Nano Research, 2021, 14, 4502-4511.	5.8	36

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19	Spontaneous In Situ Surface Alloying of Li-Zn Derived from a Novel Zn2+-Containing Solid Polymer Electrolyte for Steady Cycling of Li Metal Battery. ACS Sustainable Chemistry and Engineering, 2021, 9, 4282-4292.	3.2	4
20	Bifunctional In Situ Polymerized Interface for Stable LAGPâ€Based Lithium Metal Batteries. Advanced Materials Interfaces, 2021, 8, 2100072.	1.9	22
21	Lewis Acidity Organoboronâ€Modified Liâ€Rich Cathode Materials for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Materials Interfaces, 2021, 8, 2002113.	1.9	11
22	Biomimetics: from biological cells to battery cells. Science Bulletin, 2021, 66, 1054-1055.	4.3	2
23	Phosphorous-doped bimetallic sulfides embedded in heteroatom-doped carbon nanoarrays for flexible all-solid-state supercapacitors. Science China Materials, 2021, 64, 2439-2453.	3.5	19
24	Enhanced Air and Electrochemical Stability of Li₇P₃S₁₁â€“Based Solid Electrolytes Enabled by Aliovalent Substitution of SnO₂. Advanced Materials Interfaces, 2021, 8, 2100368.	1.9	24
25	Rational construction of ternary ZnNiP arrayed structures derived from 2D MOFs for advanced hybrid supercapacitors and Zn batteries. Electrochimica Acta, 2021, 387, 138548.	2.6	25
26	Potassium Ions Regulated the Disproportionation of Silicon Monoxide Boosting Its Performance for Lithium-Ion Battery Anodes. Energy & Fuels, 2021, 35, 16202-16211.	2.5	8
27	Ag_xMn₈O₁₆ Cathode Enables High-Performance Aqueous Li-Ion Hybrid Supercapacitors. Energy & Fuels, 2021, 35, 15101-15107.	2.5	3
28	Guest ions pre-intercalation strategy of manganese-oxides for supercapacitor and battery applications. Journal of Energy Chemistry, 2021, 60, 480-493.	7.1	36
29	A high-energy, long cycle life aqueous hybrid supercapacitor enabled by efficient battery electrode and widened potential window. Journal of Alloys and Compounds, 2021, 877, 160273.	2.8	8
30	Effects of functional carbon nanodots on water hyacinth response to Cd/Pb stress: Implication for phytoremediation. Journal of Environmental Management, 2021, 299, 113624.	3.8	15
31	Boron-doped graphene coated Au@SnO2 for high-performance triethylamine gas detection. Materials Chemistry and Physics, 2020, 239, 121961.	2.0	21
32	Potassium pre-inserted K1.04Mn8O16 as cathode materials for aqueous Li-ion and Na-ion hybrid capacitors. Journal of Energy Chemistry, 2020, 46, 53-61.	7.1	40
33	Nitrogen and sulfur co-doped porous carbon fibers film for flexible symmetric all-solid-state supercapacitors. Carbon, 2020, 158, 456-464.	5.4	72
34	Enhanced plant antioxidant capacity and biodegradation of phenol by immobilizing peroxidase on amphoteric nitrogen-doped carbon dots. Catalysis Communications, 2020, 134, 105847.	1.6	22
35	Enhanced bioaccumulation efficiency and tolerance for Cd (â…¡) in Arabidopsis thaliana by amphoteric nitrogen-doped carbon dots. Ecotoxicology and Environmental Safety, 2020, 190, 110108.	2.9	21
36	Facile construction of a hybrid artificial protective layer for stable lithium metal anode. Chemical Engineering Journal, 2020, 391, 123542.	6.6	25

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37	Lightweight graphene oxide-based sponges with high compressibility and durability for dye adsorption. Carbon, 2020, 160, 54-63.	5.4	30
38	Stable lithium metal anode enabled by an artificial multi-phase composite protective film. Journal of Power Sources, 2020, 448, 227547.	4.0	30
39	Cold-pressing PEO/LAGP composite electrolyte for integrated all-solid-state lithium metal battery. Solid State Ionics, 2020, 345, 115156.	1.3	40
40	Structural Engineering of SnS₂ Encapsulated in Carbon Nanoboxes for Highâ€Performance Sodium/Potassiumâ€Ion Batteries Anodes. Small, 2020, 16, e2005023.	5.2	120
41	Impacts of surface chemistry of functional carbon nanodots on the plant growth. Ecotoxicology and Environmental Safety, 2020, 206, 111220.	2.9	22
42	Ultrathin carbon nanosheets for highly efficient capacitive K-ion and Zn-ion storage. Journal of Materials Chemistry A, 2020, 8, 22874-22885.	5.2	58
43	Flexible rGO @ Nonwoven Fabricsâ€™ Membranes Guide Stable Lithium Metal Anodes for Lithiumâ€“Oxygen Batteries. ACS Applied Energy Materials, 2020, 3, 7944-7951.	2.5	9
44	Ballâ€Milling Strategy for Fast and Stable Potassiumâ€Ion Storage in Antimonyâ€Carbon Composite Anodes. ChemElectroChem, 2020, 7, 4587-4593.	1.7	6
45	Enhanced Electrochemical Performance of Li_{1.2}[Mn_{0.54}Co_{0.13}Ni_{0.13}]O₂ Enabled by Synergistic Effect of Li_{1.5}Na_{0.5}SiO₃ Modification. Advanced Materials Interfaces, 2020, 7, 2000378.	1.9	9
46	Facilely tunable core-shell Si@SiOx nanostructures prepared in aqueous solution for lithium ion battery anode. Electrochimica Acta, 2020, 342, 136068.	2.6	52
47	Lithium-conducting covalent-organic-frameworks as artificial solid-electrolyte-interphase on silicon anode for high performance lithium ion batteries. Nano Energy, 2020, 72, 104657.	8.2	93
48	Ag doped urchin-like Î±-MnO2 toward efficient and bifunctional electrocatalysts for Li-O2 batteries. Nano Research, 2020, 13, 2356-2364.	5.8	27
49	Bio-inspired multiple-stimuli responsive porous materials with switchable flexibility and programmable shape morphing capability. Carbon, 2020, 161, 702-711.	5.4	12
50	High Current Enabled Stable Lithium Anode for Ultralong Cycling Life of Lithiumâ€“Oxygen Batteries. ACS Applied Materials & Interfaces, 2019, 11, 30793-30800.	4.0	21
51	Mesoporous Mn2O3 rods as a highly efficient catalyst for Li-O2 battery. Journal of Power Sources, 2019, 435, 226833.	4.0	29
52	Artificial Solid Electrolyte Interphase Coating to Reduce Lithium Trapping in Silicon Anode for High Performance Lithiumâ€Ion Batteries. Advanced Materials Interfaces, 2019, 6, 1901187.	1.9	54
53	Reduced graphene oxide/SnO2@Au heterostructure for enhanced ammonia gas sensing. Chemical Physics Letters, 2019, 737, 136829.	1.2	19
54	Nitrogen-doped carbon derived from pre-oxidized pitch for surface dominated potassium-ion storage. Carbon, 2019, 155, 601-610.	5.4	110

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55	Self-supported multidimensional Niâ€“Fe phosphide networks with holey nanosheets for high-performance all-solid-state supercapacitors. Journal of Materials Chemistry A, 2019, 7, 17386-17399.	5.2	72
56	Integrated nanocomposite of LiMn2O4/graphene/carbon nanotubes with pseudocapacitive properties as superior cathode for aqueous hybrid capacitors. Journal of Electroanalytical Chemistry, 2019, 842, 74-81.	1.9	38
57	Effective synthetic strategy for Zn_{0.76}Co_{0.24}S encapsulated in stabilized N-doped carbon nanoarchitecture towards ultra-long-life hybrid supercapacitors. Journal of Materials Chemistry A, 2019, 7, 14670-14680.	5.2	59
58	Surfaceâ€Confined SnS₂@C@rGO as Highâ€Performance Anode Materials for Sodiumâ€and Potassiumâ€Ion Batteries. ChemSusChem, 2019, 12, 2689-2700.	3.6	98
59	Hierarchically porous carbon supported Sn4P3 as a superior anode material for potassium-ion batteries. Energy Storage Materials, 2019, 23, 367-374.	9.5	120
60	High efficient adsorption and storage of iodine on S, N co-doped graphene aerogel. Journal of Hazardous Materials, 2019, 373, 705-715.	6.5	73
61	Growth direction control of lithium dendrites in a heterogeneous lithiophilic host for ultra-safe lithium metal batteries. Journal of Power Sources, 2019, 416, 141-147.	4.0	31
62	Tunable synthesis of LixMnO2 nanowires for aqueous Li-ion hybrid supercapacitor with high rate capability and ultra-long cycle life. Journal of Power Sources, 2019, 413, 302-309.	4.0	63
63	Potassium gluconate-derived N/S Co-doped carbon nanosheets as superior electrode materials for supercapacitors and sodium-ion batteries. Journal of Power Sources, 2019, 414, 308-316.	4.0	87
64	Graphene oxide based membrane intercalated by nanoparticles for high performance nanofiltration application. Chemical Engineering Journal, 2018, 347, 12-18.	6.6	143
65	High performance graphene oxide nanofiltration membrane prepared by electrospraying for wastewater purification. Carbon, 2018, 130, 487-494.	5.4	144
66	Commercial expanded graphite as a lowâ€“cost, long-cycling life anode for potassiumâ€“ion batteries with conventional carbonate electrolyte. Journal of Power Sources, 2018, 378, 66-72.	4.0	299
67	Nanostructured LiMn2O4 composite as high-rate cathode for high performance aqueous Li-ion hybrid supercapacitors. Journal of Power Sources, 2018, 392, 116-122.	4.0	46
68	Li7P3S11 solid electrolyte coating silicon for high-performance lithium-ion batteries. Electrochimica Acta, 2018, 276, 325-332.	2.6	18
69	A large-area free-standing graphene oxide multilayer membrane with high stability for nanofiltration applications. Chemical Engineering Journal, 2018, 345, 536-544.	6.6	136
70	Dendrite-free Li metal anode enabled by a 3D free-standing lithiophilic nitrogen-enriched carbon sponge. Journal of Power Sources, 2018, 386, 77-84.	4.0	65
71	Synergic mechanism of adsorption and metal-free catalysis for phenol degradation by N-doped graphene aerogel. Chemosphere, 2018, 191, 389-399.	4.2	54
72	Flexible all-solid-state supercapacitors based on freestanding, binder-free carbon nanofibers@polypyrrole@graphene film. Chemical Engineering Journal, 2018, 334, 184-190.	6.6	113

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73	High-performance red phosphorus/carbon nanofibers/graphene free-standing paper anode for sodium ion batteries. Journal of Materials Chemistry A, 2018, 6, 1574-1581.	5.2	65
74	Surfactant-dependent flower- and grass-like Zn_{0.76}Co_{0.24}S/Co₃S₄ for high-performance all-solid-state asymmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 22830-22839.	5.2	60
75	Micron-Sized Nanoporous Antimony with Tunable Porosity for High-Performance Potassium-Ion Batteries. ACS Nano, 2018, 12, 12932-12940.	7.3	223
76	Enhanced Cycling Performance of Liâ€“O₂ Battery by Using a Li₃PO₄-Protected Lithium Anode in DMSO-Based Electrolyte. ACS Applied Energy Materials, 2018, 1, 5511-5517.	2.5	20
77	Reduced graphene oxide wrapped Au@ZnO core-shell structure for highly selective triethylamine gas sensing application at a low temperature. Sensors and Actuators A: Physical, 2018, 283, 128-133.	2.0	34
78	Hierarchical layer-by-layer porous FeCo₂S₄@Ni(OH)₂ arrays for all-solid-state asymmetric supercapacitors. Journal of Materials Chemistry A, 2018, 6, 20480-20490.	5.2	102
79	Investigation of the gas-sensitive properties for methanol detection based on ZnO/SnO2 heterostructure. IOP Conference Series: Materials Science and Engineering, 2018, 392, 032016.	0.3	2
80	Facile Fabrication of Nitrogenâ€Doped Porous Carbon as Superior Anode Material for Potassiumâ€Ion Batteries. Advanced Energy Materials, 2018, 8, 1802386.	10.2	393
81	In Situ Synthesis of a Lithiophilic Ag-Nanoparticles-Decorated 3D Porous Carbon Framework toward Dendrite-Free Lithium Metal Anodes. ACS Sustainable Chemistry and Engineering, 2018, 6, 15219-15227.	3.2	43
82	Reduced graphene oxide decorated Pt activated SnO2 nanoparticles for enhancing methanol sensing performance. Journal of Alloys and Compounds, 2018, 762, 8-15.	2.8	39
83	Lithium Dendrite Suppression and Enhanced Interfacial Compatibility Enabled by an Ex Situ SEI on Li Anode for LAGP-Based All-Solid-State Batteries. ACS Applied Materials & Interfaces, 2018, 10, 18610-18618.	4.0	123
84	Synergistic double-shell coating of graphene and Li4SiO4 on silicon for high performance lithium-ion battery application. Diamond and Related Materials, 2018, 88, 60-66.	1.8	11
85	Green and facile synthesis of nanosized polythiophene as an organic anode for high-performance potassium-ion battery. Functional Materials Letters, 2018, 11, 1840003.	0.7	20
86	Li7P3S11/poly(ethylene oxide) hybrid solid electrolytes with excellent interfacial compatibility for all-solid-state batteries. Journal of Power Sources, 2018, 400, 212-217.	4.0	88
87	Sandwichâ€Like FeCl₃@C as Highâ€Performance Anode Materials for Potassiumâ€Ion Batteries. Advanced Materials Interfaces, 2018, 5, 1800606.	1.9	53
88	Core-shell structured carbon nanofibers yarn@polypyrrole@graphene for high performance all-solid-state fiber supercapacitors. Carbon, 2018, 138, 264-270.	5.4	110
89	Walnut-inspired microsized porous silicon/graphene coreâ€“shell composites for high-performance lithium-ion battery anodes. Nano Research, 2017, 10, 4274-4283.	5.8	72
90	High performance agar/graphene oxide composite aerogel for methylene blue removal. Carbohydrate Polymers, 2017, 155, 345-353.	5.1	251