

Libo Deng

List of Publications by Year in descending order

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65
papers

4,213
citations

147566

31
h-index

114278

63
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all docs

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docs citations

67
times ranked

5896
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances in metal sulfides: from controlled fabrication to electrocatalytic, photocatalytic and photoelectrochemical water splitting and beyond. <i>Chemical Society Reviews</i> , 2019, 48, 4178-4280.	18.7	810
2	Scalable 2D Hierarchical Porous Carbon Nanosheets for Flexible Supercapacitors with Ultrahigh Energy Density. <i>Advanced Materials</i> , 2018, 30, 1706054.	11.1	405
3	ZIF-67-derived Co-NC@CoP-NC nanopolyhedra as an efficient bifunctional oxygen electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15836-15840.	5.2	199
4	Supercapacitance from Cellulose and Carbon Nanotube Nanocomposite Fibers. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9983-9990.	4.0	183
5	Spinel photocatalysts for environmental remediation, hydrogen generation, CO ₂ reduction and photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11078-11104.	5.2	176
6	Confined growth of NiCo ₂ S ₄ nanosheets on carbon flakes derived from eggplant with enhanced performance for asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2019, 366, 550-559.	6.6	170
7	New Strategy for Polysulfide Protection Based on Atomic Layer Deposition of TiO ₂ onto Ferroelectric-Encapsulated Cathode: Toward Ultrastable Free-Standing Room Temperature Sodium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1705537.	7.8	167
8	Electronic structure engineering on two-dimensional (2D) electrocatalytic materials for oxygen reduction, oxygen evolution, and hydrogen evolution reactions. <i>Nano Energy</i> , 2020, 77, 105080.	8.2	157
9	Biomass-Derived Carbons for Sodium-Ion Batteries and Sodium-Ion Capacitors. <i>ChemSusChem</i> , 2020, 13, 1275-1295.	3.6	96
10	Hierarchical CuO _x @Co ₃ O ₄ heterostructure nanowires decorated on 3D porous nitrogen-doped carbon nanofibers as flexible and free-standing anodes for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7691-7700.	5.2	90
11	Flexible dielectric papers based on biodegradable cellulose nanofibers and carbon nanotubes for dielectric energy storage. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6037-6044.	2.7	88
12	In situ surface decoration of Fe ₃ C/Fe ₃ O ₄ /C nanosheets: Towards bi-functional activated carbons with supercapacitance and efficient dye adsorption. <i>Bioresource Technology</i> , 2018, 256, 208-215.	4.8	82
13	Hybrid hollow spheres of carbon@Co _x Ni _{1-x} MoO ₄ as advanced electrodes for high-performance asymmetric supercapacitors. <i>Nanoscale</i> , 2019, 11, 3281-3291.	2.8	79
14	The enhancement of electrochemical capacitance of biomass-carbon by pyrolysis of extracted nanofibers. <i>Electrochimica Acta</i> , 2017, 228, 398-406.	2.6	73
15	Large-Scale Modification of Commercial Copper Foil with Lithiophilic Metal Layer for Li Metal Battery. <i>Small</i> , 2020, 16, e1905620.	5.2	71
16	Rational design of positive-hexagon-shaped two-dimensional ZIF-derived materials as improved bifunctional oxygen electrocatalysts for use as long-lasting rechargeable Zn-Air batteries. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117871.	10.8	70
17	CoO-Co ₃ O ₄ heterostructure nanoribbon/RGO sandwich-like composites as anode materials for high performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 241, 252-260.	2.6	69
18	Tailoring the geometric and electronic structure of tungsten oxide with manganese or vanadium doping toward highly efficient electrochemical and photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6161-6172.	5.2	61

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19	Ultrahigh surface area carbon nanosheets derived from lotus leaf with super capacities for capacitive deionization and dye adsorption. <i>Applied Surface Science</i> , 2020, 524, 146485.	3.1	60
20	MoS ₂ nanoflowers encapsulated into carbon nanofibers containing amorphous SnO ₂ as an anode for lithium-ion batteries. <i>Nanoscale</i> , 2019, 11, 16253-16261.	2.8	52
21	Solvothermal synthesis of ternary Cu ₂ O-CuO-RGO composites as anode materials for high performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 222, 1650-1659.	2.6	50
22	Construction of NiCo ₂ S ₄ @NiMoO ₄ Core-Shell Nanosheet Arrays with Superior Electrochemical Performance for Asymmetric Supercapacitors. <i>ChemElectroChem</i> , 2019, 6, 590-597.	1.7	49
23	PdNi alloy decorated 3D hierarchically S co-doped macro-mesoporous carbon composites as efficient free-standing and binder-free catalysts for Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10856-10867.	5.2	47
24	Electrospun FeS nanorods with enhanced stability as counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2017, 229, 229-238.	2.6	46
25	Two-dimensional hierarchically porous carbon nanosheets for flexible aqueous supercapacitors with high volumetric capacitance. <i>Nanoscale</i> , 2019, 11, 11086-11092.	2.8	46
26	Air plasma etching towards rich active sites in Fe/N-porous carbon for the oxygen reduction reaction with superior catalytic performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16605-16610.	5.2	45
27	Ultra small few layer MoS ₂ embedded into three-dimensional macro-micro-mesoporous carbon as a high performance lithium ion batteries anode with superior lithium storage capacity. <i>Electrochimica Acta</i> , 2019, 317, 638-647.	2.6	43
28	Electrocontrolled Liquid Marbles for Rapid Miniaturized Organic Reactions. <i>Advanced Functional Materials</i> , 2019, 29, 1901101.	7.8	43
29	Restricted diffusion preparation of fully-exposed Fe single-atom catalyst on carbon nanospheres for efficient oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2022, 305, 121058.	10.8	42
30	Janus Photothermal Membrane as an Energy Generator and a Mass-Transfer Accelerator for High-Efficiency Solar-Driven Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26861-26869.	4.0	37
31	Co-Mo-P carbon nanospheres derived from metal-organic frameworks as a high-performance electrocatalyst towards efficient water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1143-1149.	5.2	36
32	Oxygen-vacancy-rich TiO ₂ -coated carbon nanofibers for fast sodium storage in high-performance sodium-ion hybrid capacitors. <i>Journal of Power Sources</i> , 2021, 493, 229678.	4.0	34
33	Long cyclic stability of acidic aqueous zinc-ion batteries achieved by atomic layer deposition: the effect of the induced orientation growth of the Zn anode. <i>Nanoscale</i> , 2021, 13, 12223-12232.	2.8	33
34	Flexible Three-Dimensional Heterostructured ZnO-Co ₃ O ₄ on Carbon Cloth as Free-Standing Anode with Outstanding Li/Na Storage Performance. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3932-A3942.	1.3	32
35	In-situ encapsulation of Fe ₂ O ₃ nanoparticles into ZnFe ₂ O ₄ micro-sized capsules as high-performance lithium-ion battery anodes. <i>Journal of Materials Science and Technology</i> , 2021, 75, 110-117.	5.6	31
36	Enhanced cycling stability of Li-rich nanotube cathodes by 3D graphene hierarchical architectures for Li-ion batteries. <i>Acta Materialia</i> , 2016, 112, 11-19.	3.8	30

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37	N-Doped porous tremella-like Fe ₃ C/C electrocatalysts derived from metal-organic frameworks for oxygen reduction reaction. Dalton Transactions, 2020, 49, 797-807.	1.6	29
38	Advanced opportunities and insights on the influence of nitrogen incorporation on the physico-/electro-chemical properties of robust electrocatalysts for electrocatalytic energy conversion. Coordination Chemistry Reviews, 2021, 449, 214209.	9.5	28
39	Mesoporous NiCo ₂ O ₄ networks with enhanced performance as counter electrodes for dye-sensitized solar cells. Dalton Transactions, 2017, 46, 4403-4411.	1.6	26
40	Identifying the Active Sites of a Single Atom Catalyst with pH-Universal Oxygen Reduction Reaction Activity. Cell Reports Physical Science, 2020, 1, 100115.	2.8	26
41	Chitin-derived porous carbon loaded with Co, N and S with enhanced performance towards electrocatalytic oxygen reduction, oxygen evolution, and hydrogen evolution reactions. Electrochimica Acta, 2019, 304, 350-359.	2.6	22
42	Bifunctional oxygen electrocatalysis on ultra-thin Co ₉ S ₈ /MnS carbon nanosheets for all-solid-state zinc-air batteries. Journal of Materials Chemistry A, 2021, 9, 22635-22642.	5.2	22
43	Unprecedented Superhigh-Rate and Ultrastable Anode for High-Power Battery via Cationic Disorder. Advanced Energy Materials, 2022, 12, .	10.2	22
44	Durable, Washable, and Flexible Conductive PET Fabrics Designed by Fiber Interfacial Molecular Engineering. Macromolecular Materials and Engineering, 2016, 301, 1383-1389.	1.7	21
45	In situ growth of morphology-controllable nickel sulfides as efficient counter electrodes for dye-sensitized solar cells. Journal of Solid State Electrochemistry, 2016, 20, 2373-2382.	1.2	17
46	Supramolecular-mediated ball-in-ball porous carbon nanospheres for ultrafast energy storage. Informa-Materially, 2022, 4, .	8.5	16
47	Electrospun NiCo ₂ S ₄ with extraordinary electrocatalytic activity as counter electrodes for dye-sensitized solar cells. Journal of Solid State Electrochemistry, 2017, 21, 3579-3588.	1.2	15
48	Electrocatalytic Assisted Performance Enhancement for the Na-S Battery in Nitrogen-Doped Carbon Nanospheres Loaded with Fe. Molecules, 2020, 25, 1585.	1.7	15
49	3D Networks of Carbon-Coated Magnesium-Doped Olivine Nanofiber as Binder-Free Cathodes for High-Performance Li-Ion Battery. Advanced Materials Interfaces, 2016, 3, 1600241.	1.9	14
50	Enhanced electrocatalytic performance of Fe-TiO ₂ /N-doped graphene cathodes for rechargeable Li-O ₂ batteries. Journal of Solid State Electrochemistry, 2018, 22, 909-917.	1.2	14
51	Synthesis of Si-Sb-ZnO Composites as High-Performance Anodes for Lithium-ion Batteries. Nanoscale Research Letters, 2015, 10, 414.	3.1	12
52	Carbon-coated LiFePO ₄ synthesized by a simple solvothermal method. CrystEngComm, 2016, 18, 7537-7543.	1.3	12
53	High efficiency nitrogen doping and single atom cobalt anchoring via supermolecules for oxygen reduction electrocatalysis. Journal of Materials Chemistry A, 2021, 9, 3398-3408.	5.2	12
54	Iron oxide encapsulated titanium niobate nanotubes as a high-performance lithium-free anode for solid-state batteries. Journal of Materials Chemistry A, 2021, 9, 4880-4889.	5.2	10

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55	N/P co-doped porous carbon microspheres for supercapacitor with long-term electrochemical stability. <i>Journal of Materials Research</i> , 2021, 36, 1250-1261.	1.2	10
56	Co-CoO/MnO Heterostructured Nanocrystals Anchored on N/P-Doped 3D Porous Graphene for High-Performance Pseudocapacitive Lithium Storage. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3820-A3829.	1.3	9
57	Extraordinary dual-ion electrochemical deionization capacity and energy efficiency enabled by coupling of Na ₃ Fe ₂ (PO ₄) ₃ and NiVAI layered double hydroxide electrodes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22913-22925.	5.2	9
58	N-doped porous carbon nanofibers embedded with TiN nanoparticles for high-performance Li-S batteries. <i>Materials Research Letters</i> , 2021, 9, 490-495.	4.1	9
59	Preparation and electrochemical properties of Si _{0.8} Sb/C nanofiber composite anode materials for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2281-2289.	1.2	7
60	LiFePO ₄ /RGO composites synthesized by a solid phase combined with carbothermal reduction method. <i>Ferroelectrics</i> , 2018, 528, 1-7.	0.3	7
61	Facile synthesis of N-doped carbon-coated Si/Cu alloy with enhanced cyclic performance for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 78100-78105.	1.7	6
62	Three-dimensional nanoarchitecture SnSbZn-C composite nanofibers as anode materials for lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 52746-52753.	1.7	5
63	NiCo ₂ S ₄ nanosheets decorated on nitrogen-doped hollow carbon nanospheres as advanced electrodes for high-performance asymmetric supercapacitors. <i>Nanotechnology</i> , 2022, 33, 085404.	1.3	5
64	Synthesis of Ultrathin MoS ₂ Nanosheets Embedded in 3D Hierarchically Nitrogen and Sulfur Co-Doped Porous Carbon Composites as Efficient Oxygen Reduction Reaction Catalyst. <i>ChemElectroChem</i> , 2020, 7, 3260-3268.	1.7	4
65	Constructing advanced high-performance sodium-ion batteries anode materials via the morphology tuning strategy of lignin-derived carbon. <i>Journal of Materials Research</i> , 2021, 36, 3460-3471.	1.2	2