Deyu Qu

List of Publications by Year in descending order

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76 papers	2,790 citations	172457 29 h-index	189892 50 g-index
76 all docs	76 docs citations	76 times ranked	4071 citing authors

#	Article	IF	Citations
1	Ultrasensitive electrochemical sensor for mercury ion detection based on molybdenum selenide and Au nanoparticles via thymineâ€“Hg²⁺â€“thymine coordination. Analytical Methods, 2022, 14, 278-285.	2.7	5
2	The impact of a trace amount of water in an electrolyte on the performance of Liâ€ion batteriesâ€”An empirical kinetic model approach. International Journal of Energy Research, 2022, 46, 7988-7995.	4.5	3
3	In-situ polymerized composite polymer electrolyte with cesium-ion additive enables dual-interfacial compatibility in all-solid-state lithium-metal batteries. Journal of Colloid and Interface Science, 2022, 615, 627-635.	9.4	11
4	Rapid electrodeposition of Fe-doped nickel selenides on Ni foam as a bi-functional electrocatalyst for water splitting in alkaline solution. Journal of Electroanalytical Chemistry, 2022, 906, 116014.	3.8	16
5	Activating the hydrogen evolution activity of Pt electrode via synergistic interaction with NiS2. Journal of Colloid and Interface Science, 2021, 582, 591-597.	9.4	29
6	Cellulose-based material in lithium-sulfur batteries: A review. Carbohydrate Polymers, 2021, 255, 117469.	10.2	57
7	Simultaneous phase control and carbon intercalation of MoS₂ for electrochemical hydrogen evolution catalysis. Materials Advances, 2021, 2, 7482-7489.	5.4	2
8	Solid-state fabrication of CNT-threaded Fe1-S@N-doped carbon composite as high-rate anodes for sodium-ion batteries and hybrid capacitors. Journal of Alloys and Compounds, 2021, 869, 159303.	5.5	8
9	Tuning the Intrinsic Activity and Electrochemical Surface Area of MoS₂ via Tiny Zn Doping: Toward an Efficient Hydrogen Evolution Reaction (HER) Catalyst. Chemistry - A European Journal, 2021, 27, 15992-15999.	3.3	19
10	The impacts of nitrogen doping on the electrochemical hydrogen storage in a carbon. International Journal of Energy Research, 2021, 45, 9326-9339.	4.5	20
11	A sandwich-type photoelectrochemical aptasensor using Au/BiVO₄ and CdS quantum dots for carcinoembryonic antigen assay. Analyst, The, 2021, 146, 5904-5912.	3.5	6
12	Self-assembled N-doped carbon with a tube-in-tube nanostructure for lithium-sulfur batteries. Journal of Colloid and Interface Science, 2020, 559, 244-253.	9.4	20
13	A synergistic modification of polypropylene separator toward stable lithiumâ€“sulfur battery. Journal of Membrane Science, 2020, 597, 117646.	8.2	47
14	The determination of trace free acid content in lithium-ion battery electrolytes by coulometric titration in non-aqueous media. Analyst, The, 2020, 145, 582-587.	3.5	5
15	3D porous and self-supporting Ni foam@graphene@Ni3S2 as a bifunctional electrocatalyst for overall water splitting in alkaline solution. Journal of Electroanalytical Chemistry, 2020, 858, 113795.	3.8	17
16	Air-stable red phosphorus anode for potassium/sodium-ion batteries enabled through dual-protection design. Nano Energy, 2020, 69, 104451.	16.0	70
17	Coralline-like CoP₃@Cu as an efficient electrocatalyst for the hydrogen evolution reaction in acidic and alkaline solutions. New Journal of Chemistry, 2020, 44, 18601-18607.	2.8	6
18	Synthesis of carbon-SiO2 hybrid layer @ SiO2 @ CNT coaxial nanotube and its application in lithium storage. Electrochimica Acta, 2020, 354, 136726.	5.2	30

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19	3D Coral-like LLZO/PVDF Composite Electrolytes with Enhanced Ionic Conductivity and Mechanical Flexibility for Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 52652-52659.	8.0	81
20	Multifunctional Polypropylene Separator via Cooperative Modification and Its Application in the Lithiumâ€“Sulfur Battery. Langmuir, 2020, 36, 11147-11153.	3.5	27
21	Fabrication of Z-scheme Bi5O7I/MIL-53(Fe) hybrid with improved photocatalytic performance under visible light irradiation. Journal of Materials Science: Materials in Electronics, 2020, 31, 4822-4835.	2.2	11
22	Evaporation-induced formation of hollow bismuth@N-doped carbon nanorods for enhanced electrochemical potassium storage. Applied Surface Science, 2020, 514, 145947.	6.1	47
23	Hydrogen ion supercapacitor cell construction and rational design of cell structure. International Journal of Energy Research, 2019, 43, 8439.	4.5	1
24	Improving catalytic activity of metal telluride by hybridization: An efficient Ni3Te2-CoTe composite electrocatalyst for oxygen evolution reaction. Applied Surface Science, 2019, 490, 516-521.	6.1	38
25	Synthesis of MOF-74-derived carbon/ZnCo2O4 nanoparticles@CNT-nest hybrid material and its application in lithium ion batteries. Journal of Applied Electrochemistry, 2019, 49, 1103-1112.	2.9	20
26	A hybrid supercapacitor constructed by graphene wrapped ordered meso-porous Si based electrode. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 576, 15-21.	4.7	6
27	Metal/metal oxide@carbon composites derived from bimetallic Cu/Ni-based MOF and their electrocatalytic performance for glucose sensing. Journal of Electroanalytical Chemistry, 2019, 841, 94-100.	3.8	60
28	A single-step fabrication of CoTe2 nanofilm electrode toward efficient overall water splitting. Electrochimica Acta, 2019, 307, 451-458.	5.2	46
29	Chemical Prelithiation of Negative Electrodes in Ambient Air for Advanced Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 8699-8703.	8.0	100
30	Electrochemical hydrogen storage in iron nitrogen dual-doped ordered mesoporous carbon. International Journal of Hydrogen Energy, 2019, 44, 7326-7336.	7.1	16
31	Formation of thin layer graphite wrapped meso-porous SiOx and its lithium storage application. Ceramics International, 2019, 45, 24707-24716.	4.8	7
32	Lithium ion supercapacitor composed by Si-based anode and hierarchal porous carbon cathode with super long cycle life. Applied Surface Science, 2019, 463, 879-888.	6.1	21
33	Pt Monolayer Creation on a Au Surface via an Underpotentially Deposited Cu Route. Journal of Physical Chemistry C, 2019, 123, 2872-2881.	3.1	5
34	Reduced graphene-oxide/highly ordered mesoporous SiOx hybrid material as an anode material for lithium ion batteries. Electrochimica Acta, 2018, 273, 26-33.	5.2	45
35	SnO₂ Functionalized Polyethylene Separator with Enhanced Thermal Stability for High Performance Lithium Ion Battery. ChemistrySelect, 2018, 3, 911-916.	1.5	34
36	Performances of Platinum and nitrogen Dual-Doped Ordered Mesoporous Carbon as Sulfur Host for Li-S Battery. International Journal of Electrochemical Science, 2018, 13, 11294-11322.	1.3	6

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37	A Porous FeCuNi-Based Electrocatalyst Supported by Nickel Foam for Oxygen Evolution Reaction in Alkaline Conditions. Journal of the Electrochemical Society, 2018, 165, F1127-F1132.	2.9	7
38	Electrochemical hydrogen storage in a nitrogen-doped uniformed microporous carbon. International Journal of Hydrogen Energy, 2018, 43, 14096-14102.	7.1	17
39	Confined phosphorus in carbon nanotube-backboned mesoporous carbon as superior anode material for sodium/potassium-ion batteries. Nano Energy, 2018, 52, 1-10.	16.0	148
40	Confining nano-sized platinum in nitrogen doped ordered mesoporous carbon: An effective approach toward efficient and robust hydrogen evolution electrocatalyst. Journal of Colloid and Interface Science, 2018, 530, 595-602.	9.4	30
41	Interfacing soluble polysulfides with a SnO2 functionalized separator: An efficient approach for improving performance of Li-S battery. Journal of Membrane Science, 2018, 563, 380-387.	8.2	64
42	Dual carbon-protected metal sulfides and their application to sodium-ion battery anodes. Journal of Materials Chemistry A, 2018, 6, 13294-13301.	10.3	63
43	The Progress of Liâ€“S Batteriesâ€”Understanding of the Sulfur Redox Mechanism: Dissolved Polysulfide Ions in the Electrolytes. Advanced Materials Technologies, 2018, 3, 1700233.	5.8	85
44	Self-assembly synthesis of a unique stable cocoon-like hematite @C nanoparticle and its application in lithium ion batteries. Journal of Colloid and Interface Science, 2017, 495, 157-167.	9.4	21
45	Fabrication of nitrogen doped carbon encapsulated ZnO particle and its application in a lithium ion conversion supercapacitor. Journal of Materials Research, 2017, 32, 334-342.	2.6	9
46	Fe and N Coâ€doped Carbons Derived from an Ionic Liquid as Active Bifunctional Oxygen Catalysts. ChemElectroChem, 2017, 4, 1148-1153.	3.4	17
47	Synthesis of MnO nano-particle@Flourine doped carbon and its application in hybrid supercapacitor. Applied Surface Science, 2017, 413, 344-350.	6.1	29
48	Controlled carbon coating of Fe 2 O 3 nanotube with tannic acid: A bio-inspired approach toward high performance lithium-ion battery anode. Journal of Alloys and Compounds, 2017, 719, 347-352.	5.5	28
49	Ammoniaâ€Treated Ordered Mesoporous Carbons with Hierarchical Porosity and Nitrogenâ€Doping for Lithiumâ€Sulfur Batteries. ChemistrySelect, 2017, 2, 7160-7168.	1.5	8
50	Facile synthesis of Fe2O3@graphite nanoparticle composite as the anode for Lithium ion batteries with high cyclic stability. Electrochimica Acta, 2017, 253, 104-113.	5.2	47
51	Electrochemical Hydrogen Storage in Facile Synthesized Co@N-Doped Carbon Nanoparticle Composites. ACS Applied Materials & Interfaces, 2017, 9, 41332-41338.	8.0	19
52	Investigation of the Liâ€“S Battery Mechanism by Real-Time Monitoring of the Changes of Sulfur and Polysulfide Species during the Discharge and Charge. ACS Applied Materials & Interfaces, 2017, 9, 4326-4332.	8.0	70
53	Dual-doped mesoporous carbon synthesized by a novel nanocasting method with superior catalytic activity for oxygen reduction. Nano Energy, 2016, 26, 131-138.	16.0	68
54	Mechanistic Insights into Asymmetric Câ€“H Insertion Cooperatively Catalyzed by a Dirhodium(II) Complex and Chiral Phosphoric Acid. Organometallics, 2016, 35, 2003-2009.	2.3	24

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55	Highly efficient synthesis of ordered nitrogen-doped mesoporous carbons with tunable properties and its application in high performance supercapacitors. Journal of Power Sources, 2016, 321, 143-154.	7.8	77
56	High-Capacity and Self-Stabilized Manganese Carbonate Microspheres as Anode Material for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 25369-25378.	8.0	45
57	Advanced Separators for Lithiumâ€Ion and Lithiumâ€“Sulfur Batteries: A Review of Recent Progress. ChemSusChem, 2016, 9, 3023-3039.	6.8	299
58	Controllable preparation and superior rate performance of spinel LiMn2O4 hollow microspheres as cathode material for lithium-ion batteries. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 503-508.	1.0	0
59	Self-assembly of polyhedral oligosilsesquioxane (POSS) into hierarchically ordered mesoporous carbons with uniform microporosity and nitrogen-doping for high performance supercapacitors. Nano Energy, 2016, 22, 255-268.	16.0	97
60	Octa(aminophenyl)silsesquioxane derived nitrogen-doped well-defined nanoporous carbon materials: Synthesis and application for supercapacitors. Electrochimica Acta, 2016, 194, 143-150.	5.2	23
61	Quantitative and Qualitative Determination of Polysulfide Species in the Electrolyte of a Lithiumâ€“Sulfur Battery using HPLC ESI/MS with Oneâ€Step Derivatization. Advanced Energy Materials, 2015, 5, 1401888.	19.5	43
62	DFT Study on the Rhodium(II)-Catalyzed Câ€“H Functionalization of Indoles: Enol versus Oxocarbenium Ylide. Organometallics, 2015, 34, 3112-3119.	2.3	27
63	Improve Electrochemical Hydrogen Insertion on the Carbon Materials Loaded with Pt nano-particles through H spillover. Electrochimica Acta, 2015, 174, 400-405.	5.2	13
64	Enhanced supercapacitive performance on TiO2@C coaxial nano-rod array through a bio-inspired approach. Nano Energy, 2015, 15, 75-82.	16.0	64
65	Preferential Solvation of Lithium Cations and Impacts on Oxygen Reduction in Lithiumâ€“Air Batteries. ACS Applied Materials & Interfaces, 2015, 7, 19923-19929.	8.0	18
66	Electrochemical Hydrogen Storage in a Highly Ordered Mesoporous Carbon. Frontiers in Energy Research, 2014, 2, .	2.3	7
67	Hydrogen Ion Supercapacitor: A New Hybrid Configuration of Highly Dispersed MnO₂ in Porous Carbon Coupled with Nitrogen-Doped Highly Ordered Mesoporous Carbon with Enhanced H-Insertion. ACS Applied Materials & Interfaces, 2014, 6, 22687-22694.	8.0	21
68	An asymmetric supercapacitor with highly dispersed nano-Bi2O3 and active carbon electrodes. Journal of Power Sources, 2014, 269, 129-135.	7.8	73
69	Enhancement of Electrochemical Hydrogen Insertion in N-Doped Highly Ordered Mesoporous Carbon. Journal of Physical Chemistry C, 2014, 118, 2370-2374.	3.1	30
70	Engineering aspects of the hybrid supercapacitor with H-insertion electrode. Journal of Power Sources, 2013, 230, 66-69.	7.8	12
71	Coverage-dependent electro-catalytic activity of Pt sub-monolayer/Au bi-metallic catalyst toward methanol oxidation. International Journal of Hydrogen Energy, 2013, 38, 5665-5670.	7.1	16
72	Synthesis of hierarchical fiberlike ordered mesoporous carbons with excellent electrochemical capacitance performance by a strongly acidic aqueous cooperative assembly route. Journal of Materials Chemistry A, 2013, 1, 15447.	10.3	32

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73	One-pot aqueous route to synthesize highly ordered cubic and hexagonal mesoporous carbons from resorcinol and hexamine. Carbon, 2012, 50, 476-487.	10.3	96
74	1,6-Hexanedithiol Self-Assembled Monolayers on Au(111) Investigated by Electrochemical, Spectroscopic, and Molecular Mechanics Methods. Journal of Physical Chemistry C, 2010, 114, 497-505.	3.1	31
75	Pt Nano-Layer Formation by Redox Replacement of Cu Adlayer on Au(111) Surface. Bulletin of the Korean Chemical Society, 2009, 30, 2875-2876.	1.9	14
76	Electrochemical Metal Deposition on Top of an Organic Monolayer. Journal of Physical Chemistry B, 2006, 110, 17570-17577.	2.6	56