

# Qi-Bo Deng

## List of Publications by Year in descending order

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49  
papers

1,201  
citations

394286

19  
h-index

395590

33  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1334  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Features and Progress of Electrolyte for Potassium Ion Batteries. <i>Small</i> , 2020, 16, e2004096.	5.2	98
2	Eliminating Tip Dendrite Growth by Lorentz Force for Stable Lithium Metal Anodes. <i>Advanced Functional Materials</i> , 2019, 29, 1902630.	7.8	85
3	Pt and Te codoped ultrathin MoS <sub>2</sub> nanosheets for enhanced hydrogen evolution reaction with wide pH range. <i>Rare Metals</i> , 2022, 41, 378-384.	3.6	65
4	Suppressed polysulfide shuttling and improved Li <sup>+</sup> transport in Li S batteries enabled by NbN modified PP separator. <i>Journal of Power Sources</i> , 2019, 423, 98-105.	4.0	62
5	Mechanical modulation of reaction rates in electrocatalysis. <i>Journal of Catalysis</i> , 2014, 309, 351-361.	3.1	59
6	Recent Advances in Oxygen Electrocatalysts Based on Perovskite Oxides. <i>Nanomaterials</i> , 2019, 9, 1161.	1.9	58
7	Flexible Co(OH) <sub>2</sub> /NiOxHy@Ni hybrid electrodes for high energy density supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 415, 128871.	6.6	55
8	Uniform yolk-shell structured Si@C nanoparticles as a high performance anode material for the Li-ion battery. <i>Chemical Communications</i> , 2020, 56, 364-367.	2.2	53
9	Highly stretchable, superhydrophobic and wearable strain sensors based on the laser-irradiated PDMS/CNT composite. <i>Composites Science and Technology</i> , 2022, 218, 109148.	3.8	46
10	Dynamic electro-chemo-mechanical analysis during cyclic voltammetry. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17313.	1.3	38
11	Improving catalytic activity of metal telluride by hybridization: An efficient Ni <sub>3</sub> Te <sub>2</sub> -CoTe composite electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2019, 490, 516-521.	3.1	38
12	The Thermal and Mechanical Properties of Poly(ethylene-co-vinyl acetate) Random Copolymers (PEVA) and its Covalently Crosslinked Analogues (cPEVA). <i>Polymers</i> , 2019, 11, 1055.	2.0	36
13	The effect of surface strain on the CO-poisoned surface of Pt electrode for hydrogen adsorption. <i>Journal of Catalysis</i> , 2017, 350, 212-217.	3.1	32
14	Confining nano-sized platinum in nitrogen doped ordered mesoporous carbon: An effective approach toward efficient and robust hydrogen evolution electrocatalyst. <i>Journal of Colloid and Interface Science</i> , 2018, 530, 595-602.	5.0	30
15	Electrocapillary Coupling during Electrosorption. <i>Langmuir</i> , 2014, 30, 10522-10530.	1.6	29
16	Activating the hydrogen evolution activity of Pt electrode via synergistic interaction with NiS <sub>2</sub> . <i>Journal of Colloid and Interface Science</i> , 2021, 582, 591-597.	5.0	29
17	A ternary FeS <sub>2</sub> /Fe <sub>7</sub> S <sub>8</sub> @nitrogen-sulfur co-doping reduced graphene oxide hybrid towards superior-performance lithium storage. <i>Progress in Natural Science: Materials International</i> , 2021, 31, 207-214.	1.8	28
18	Multifunctional Polypropylene Separator via Cooperative Modification and Its Application in the Lithium-Sulfur Battery. <i>Langmuir</i> , 2020, 36, 11147-11153.	1.6	27

#	ARTICLE	IF	CITATIONS
19	Less Noble or More Noble: How Strain Affects the Binding of Oxygen on Gold. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12981-12985.	7.2	26
20	Multifunctional Slippery Polydimethylsiloxane/Carbon Nanotube Composite Strain Sensor with Excellent Liquid Repellence and Anti-Icing/Deicing Performance. <i>Polymers</i> , 2022, 14, 409.	2.0	26
21	Electrocapillary coupling at rough surfaces. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11725-11731.	1.3	19
22	High energy density aqueous asymmetric supercapacitors based on MnO <sub>2</sub> @C branch dendrite nanoarchitectures. <i>Electrochimica Acta</i> , 2018, 283, 603-610.	2.6	18
23	The Effect of an External Magnetic Field on the Electrochemical Capacitance of Nanoporous Nickel for Energy Storage. <i>Nanomaterials</i> , 2019, 9, 694.	1.9	18
24	Promoting the Electrochemical Performance of Li-Rich Layered Li <sub>1.2</sub> (Ni <sub>1/6</sub> Co <sub>1/6</sub> Mn <sub>4/6</sub> ) <sub>0.8</sub> O <sub>2</sub> with the In Situ Transformed Allogenic Spinel Phase. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2215-2225.	3.2	18
25	A non-conventional way to modulate the capacitive process on carbon cloth by mechanical stretching. <i>Electrochemistry Communications</i> , 2018, 89, 43-47.	2.3	15
26	Hydrogen Production from Urea Sewage on NiFe-Based Porous Electrocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 0, .	3.2	15
27	A room temperature alloying strategy to enable commercial metal foil for efficient Li/Na storage and deposition. <i>Energy Storage Materials</i> , 2021, 34, 708-715.	9.5	15
28	Improvement of Hydrogen Desorption Characteristics of MgH <sub>2</sub> With Core-shell Ni@C Composites. <i>Molecules</i> , 2018, 23, 3113.	1.7	12
29	The Mechanical Effect of MnO <sub>2</sub> Layers on Electrochemical Actuation Performance of Nanoporous Gold. <i>Nanomaterials</i> , 2020, 10, 2056.	1.9	12
30	Constructing Core-Shell Co@N-Rich Carbon Additives Toward Enhanced Hydrogen Storage Performance of Magnesium Hydride. <i>Frontiers in Chemistry</i> , 2020, 8, 223.	1.8	12
31	Mesoporous Co@N-rich carbon hybrids for a high rate aqueous alkaline battery. <i>Electrochimica Acta</i> , 2017, 250, 135-142.	2.6	11
32	Understanding the copper underpotential deposition process at strained gold surface. <i>Electrochemistry Communications</i> , 2017, 82, 125-128.	2.3	11
33	The effect of an external magnetic field on the dealloying process of the Ni-Al alloy in alkaline solution. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 18167-18171.	1.3	10
34	Experimental study on electromagnetic wave transparency for coated metallic cylinders. <i>Journal of Applied Physics</i> , 2009, 105, 103112.	1.1	9
35	Electrochemical Performance of Iron Oxide Nanoflakes on Carbon Cloth under an External Magnetic Field. <i>Metals</i> , 2018, 8, 939.	1.0	9
36	Monitoring the length change of Ni@C composite electrodes during charging/discharging processes. <i>Electrochemistry Communications</i> , 2019, 103, 94-99.	2.3	9

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37	Bifunctional polymer-of-intrinsic-microporosity membrane for flexible Li/Na <sup>+</sup> H <sub>2</sub> O <sub>2</sub> batteries with hybrid electrolytes. Journal of Materials Chemistry A, 2020, 8, 3491-3498.	5.2	8
38	Monitoring and Modeling the Variation of Electrochemical Current Induced by Dynamic Strain at Gold Surfaces. Journal of the Electrochemical Society, 2019, 166, H480-H484.	1.3	7
39	Reply to the "Comment on "Response of the potential of a gold electrode to elastic strain" by Ā. Horváth, G. Nagy and R. Schiller, Phys. Chem. Chem. Phys., 2010, 12, DOI: 10.1039/b925108d. Physical Chemistry Chemical Physics, 2010, 12, 7291.	1.3	6
40	Hierarchical Nanoporous Carbon Templated and Catalyzed by the Bicontinuous Nanoporous Copper for High Performance Electrochemical Capacitors. ChemistrySelect, 2019, 4, 6437-6444.	0.7	6
41	The effects of atomic arrangements on mechanical properties of 2H, 3C, 4H and 6H-SiC. Computational Materials Science, 2022, 203, 111114.	1.4	6
42	Nanoscratching and mechanical behaviors of high-entropy alloys with different phase constituents. Journal of Iron and Steel Research International, 2019, 26, 1240-1248.	1.4	4
43	A Simple Mechanical Method to Modulate the Electrochemical Electrosorption Processes at Metal Surfaces. Molecules, 2019, 24, 3662.	1.7	4
44	Investigation of the distinct optical property of nanoporous gold. Results in Physics, 2019, 15, 102645.	2.0	4
45	Effect of strain rate on microscale formability and microstructural evolution of TA1 foil. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 817, 141338.	2.6	4
46	Novel Self-Adaptive Electrolyte for High-Energy Solid-State Lithium Metal Batteries. ACS Applied Energy Materials, 2022, 5, 862-869.	2.5	4
47	Oriented Layered Graphene Oxide Pad Favoring High Loading Capacity and Stability for High-Throughput Chemical Screening. Advanced Materials Technologies, 0, , 2101586.	3.0	3
48	Theory and Experiment of Isotropic Electromagnetic Beam Bender Made of Dielectric Materials. Advanced Materials Research, 2010, 150-151, 1508-1516.	0.3	2
49	Experimental study on transparency induced by metamaterials. , 2008, , .		0