

Qi Dong

List of Publications by Year in descending order

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72
papers

4,032
citations

109264

35
h-index

123376

61
g-index

78
all docs

78
docs citations

78
times ranked

4688
citing authors

#	ARTICLE	IF	CITATIONS
1	High-entropy nanoparticles: Synthesis-structure-property relationships and data-driven discovery. <i>Science</i> , 2022, 376, eabn3103.	6.0	239
2	Stable iridium dinuclear heterogeneous catalysts supported on metal-oxide substrate for solar water oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2902-2907.	3.3	229
3	High-Entropy Metal Sulfide Nanoparticles Promise High-Performance Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2021, 11, 2002887.	10.2	226
4	Why Do Lithium-Oxygen Batteries Fail: Parasitic Chemical Reactions and Their Synergistic Effect. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11344-11353.	7.2	186
5	Metal Halide Perovskites for Laser Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2010144.	7.8	180
6	Denary oxide nanoparticles as highly stable catalysts for methane combustion. <i>Nature Catalysis</i> , 2021, 4, 62-70.	16.1	153
7	What Limits the Performance of Ta ₃ N ₅ for Solar Water Splitting?. <i>CheM</i> , 2016, 1, 640-655.	5.8	143
8	Efficient Energy Funneling in Quasi-2D Perovskites: From Light Emission to Lasing. <i>Advanced Materials</i> , 2020, 32, e1906571.	11.1	134
9	Electrochemically Switchable Ring-Opening Polymerization of Lactide and Cyclohexene Oxide. <i>Journal of the American Chemical Society</i> , 2018, 140, 5686-5690.	6.6	127
10	High-throughput, combinatorial synthesis of multimetallic nanoclusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6316-6322.	3.3	119
11	Synthesis and electrocatalytic alcohol oxidation performance of Pd-Co bimetallic nanoparticles supported on graphene. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 1325-1335.	3.8	102
12	Extreme mixing in nanoscale transition metal alloys. <i>Matter</i> , 2021, 4, 2340-2353.	5.0	102
13	Pd/Cu bimetallic nanoparticles supported on graphene nanosheets: Facile synthesis and application as novel electrocatalyst for ethanol oxidation in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14669-14679.	3.8	101
14	A high-entropy phosphate catalyst for oxygen evolution reaction. <i>Nano Energy</i> , 2021, 86, 106029.	8.2	100
15	Stable Multimetallic Nanoparticles for Oxygen Electrocatalysis. <i>Nano Letters</i> , 2019, 19, 5149-5158.	4.5	94
16	Continuous Synthesis of Hollow High-Entropy Nanoparticles for Energy and Catalysis Applications. <i>Advanced Materials</i> , 2020, 32, e2002853.	11.1	93
17	Carbon-Supported High-Entropy Oxide Nanoparticles as Stable Electrocatalysts for Oxygen Reduction Reactions. <i>Advanced Functional Materials</i> , 2021, 31, 2010561.	7.8	86
18	Scalable Synthesis of High Entropy Alloy Nanoparticles by Microwave Heating. <i>ACS Nano</i> , 2021, 15, 14928-14937.	7.3	85

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19	Achieving Low Overpotential Li ⁺ /O ₂ Battery Operations by Li ₂ O ₂ Decomposition through One-Electron Processes. <i>Nano Letters</i> , 2015, 15, 8371-8376.	4.5	70
20	Cathodically Stable Li-O ₂ Battery Operations Using Water-in-Salt Electrolyte. <i>Chem</i> , 2018, 4, 1345-1358.	5.8	69
21	End-On Bound Iridium Dinuclear Heterogeneous Catalysts on WO ₃ for Solar Water Oxidation. <i>ACS Central Science</i> , 2018, 4, 1166-1172.	5.3	69
22	Free-standing porous carbon electrodes derived from wood for high-performance Li-O ₂ battery applications. <i>Nano Research</i> , 2017, 10, 4318-4326.	5.8	64
23	Programmable heating and quenching for efficient thermochemical synthesis. <i>Nature</i> , 2022, 605, 470-476.	13.7	61
24	Stamping Flexible Li Alloy Anodes. <i>Advanced Materials</i> , 2021, 33, e2005305.	11.1	58
25	Selective CO Production by Photoelectrochemical Methane Oxidation on TiO ₂ . <i>ACS Central Science</i> , 2018, 4, 631-637.	5.3	56
26	A Metal-Organic Framework Thin Film for Selective Mg ²⁺ Transport. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15313-15317.	7.2	56
27	Printable, high-performance solid-state electrolyte films. <i>Science Advances</i> , 2020, 6, .	4.7	54
28	Defect Passivation by Fullerene Derivative in Perovskite Solar Cells with Aluminum-Doped Zinc Oxide as Electron Transporting Layer. <i>Chemistry of Materials</i> , 2019, 31, 6833-6840.	3.2	50
29	Multi-principal elemental intermetallic nanoparticles synthesized via a disorder-to-order transition. <i>Science Advances</i> , 2022, 8, eabm4322.	4.7	49
30	Photo-Induced Performance Enhancement of Tantalum Nitride for Solar Water Oxidation. <i>Joule</i> , 2017, 1, 831-842.	11.7	46
31	Facet-Dependent Kinetics and Energetics of Hematite for Solar Water Oxidation Reactions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5616-5622.	4.0	46
32	Role of H ₂ O in CO ₂ Electrochemical Reduction As Studied in a Water-in-Salt System. <i>ACS Central Science</i> , 2019, 5, 1461-1467.	5.3	46
33	Observation of a potential-dependent switch of water-oxidation mechanism on Co-oxide-based catalysts. <i>Chem</i> , 2021, 7, 2101-2117.	5.8	42
34	Rapid Synthesis of High-Entropy Oxide Microparticles. <i>Small</i> , 2022, 18, e2104761.	5.2	41
35	Ultrafast Sintering of Solid-State Electrolytes with Volatile Fillers. <i>ACS Energy Letters</i> , 2021, 6, 3753-3760.	8.8	39
36	Understanding the Role of Ion Migration in the Operation of Perovskite Light-Emitting Diodes by Transient Measurements. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48845-48853.	4.0	37

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37	A rechargeable non-aqueous Mg-Br ₂ battery. <i>Nano Energy</i> , 2016, 28, 440-446.	8.2	36
38	Novel Bimodal Silver Nanowire Network as Top Electrodes for Reproducible and High-Efficiency Semitransparent Organic Photovoltaics. <i>Solar Rrl</i> , 2020, 4, 2000328.	3.1	36
39	Enabling Lithium Metal Anode in Nonflammable Phosphate Electrolyte with Electrochemically Induced Chemical Reactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19183-19190.	7.2	36
40	Directional Polarized Light Emission from Thin-Film Light-Emitting Diodes. <i>Advanced Materials</i> , 2021, 33, e2006801.	11.1	35
41	Functionalizing Titanium Disilicide Nanonets with Cobalt Oxide and Palladium for Stable Li Oxygen Battery Operations. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21948-21955.	4.0	34
42	Interface Engineering Between Multi-Elemental Alloy Nanoparticles and a Carbon Support Toward Stable Catalysts. <i>Advanced Materials</i> , 2022, 34, e2106436.	11.1	30
43	Rapid, High-Temperature, In Situ Microwave Synthesis of Bulk Nanocatalysts. <i>Small</i> , 2019, 15, e1904881.	5.2	28
44	High-Temperature Ultrafast Sintering: Exploiting a New Kinetic Region to Fabricate Porous Solid-State Electrolyte Scaffolds. <i>Advanced Materials</i> , 2021, 33, e2100726.	11.1	24
45	Mild solution synthesis of graphene loaded with LiFePO ₄ -C nanoplatelets for high performance lithium ion batteries. <i>New Journal of Chemistry</i> , 2015, 39, 1094-1100.	1.4	23
46	Warum Lithium-Sauerstoff-Batterien versagen: Parasitäre chemische Reaktionen und ihr synergistischer Effekt. <i>Angewandte Chemie</i> , 2016, 128, 11514-11524.	1.6	22
47	Enabling rechargeable non-aqueous MgO ₂ battery operations with dual redox mediators. <i>Chemical Communications</i> , 2016, 52, 13753-13756.	2.2	22
48	Rapid, Universal Surface Engineering of Carbon Materials via Microwave-Induced Carbothermal Shock. <i>Advanced Functional Materials</i> , 2021, 31, 2010968.	7.8	22
49	Fabrication of Cellulose-Graphite Foam via Ion Cross-linking and Ambient-Drying. <i>Nano Letters</i> , 2022, 22, 3931-3938.	4.5	21
50	Rapid Pressureless Sintering of Glasses. <i>Small</i> , 2022, 18, e2107951.	5.2	20
51	Thermal Radiation Synthesis of Ultrafine Platinum Nanoclusters toward Methanol Oxidation. <i>Small Methods</i> , 2020, 4, 2000265.	4.6	16
52	Dependence of interface energetics and kinetics on catalyst loading in a photoelectrochemical system. <i>Nano Research</i> , 2019, 12, 2378-2384.	5.8	15
53	A General Method for Regenerating Catalytic Electrodes. <i>Joule</i> , 2020, 4, 2374-2386.	11.7	15
54	Computation-Guided Synthesis of New Garnet-Type Solid-State Electrolytes via an Ultrafast Sintering Technique. <i>Advanced Materials</i> , 2020, 32, e2005059.	11.1	15

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55	Electrochemically switchable polymerization from surface-anchored molecular catalysts. <i>Chemical Science</i> , 2021, 12, 9042-9052.	3.7	15
56	Effect of sizing on the interfacial shear strength of carbon fiber/epoxy resin monofilament composite. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2014, 29, 483-487.	0.4	14
57	Overcoming Immiscibility via a Milliseconds-Long "Shock" Synthesis toward Alloyed Nanoparticles. <i>Matter</i> , 2019, 1, 1451-1453.	5.0	13
58	Continuous Fly-Through High-Temperature Synthesis of Nanocatalysts. <i>Nano Letters</i> , 2021, 21, 4517-4523.	4.5	13
59	Rapid Atomic Ordering Transformation toward Intermetallic Nanoparticles. <i>Nano Letters</i> , 2022, 22, 255-262.	4.5	12
60	Electrochemically Triggered Chain Reactions for the Conversion of Furan Derivatives. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7534-7539.	7.2	8
61	Catalysts in metal-air batteries. <i>MRS Communications</i> , 2018, 8, 372-386.	0.8	7
62	Light extraction in tandem organic light emitting diodes. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	6
63	Target-Sintering of Single-Phase Bulk Intermetallics via a Fast-Heating-Induced Rapid Interdiffusion Mechanism. , 2022, 4, 480-486.		6
64	Curved Mirror Arrays for Light Extraction in Top-Emitting Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9377-9385.	4.0	5
65	Electrochemically Triggered Chain Reactions for the Conversion of Furan Derivatives. <i>Angewandte Chemie</i> , 2021, 133, 7612-7617.	1.6	3
66	A Metal-Organic Framework Thin Film for Selective Mg ²⁺ Transport. <i>Angewandte Chemie</i> , 2019, 131, 15457-15461.	1.6	1
67	Frontispiece: Electrochemically Triggered Chain Reactions for the Conversion of Furan Derivatives. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	7.2	1
68	Enabling Lithium Metal Anode in Nonflammable Phosphate Electrolyte with Electrochemically Induced Chemical Reactions. <i>Angewandte Chemie</i> , 2021, 133, 19332-19339.	1.6	1
69	Encased for a New Life. <i>CheM</i> , 2016, 1, 190-192.	5.8	0
70	Frontispiz: Electrochemically Triggered Chain Reactions for the Conversion of Furan Derivatives. <i>Angewandte Chemie</i> , 2021, 133, .	1.6	0
71	27 th : Organic Light-Emitting Diodes with Directional Polarized Light Emission. <i>Digest of Technical Papers SID International Symposium</i> , 2021, 52, 345-348.	0.1	0
72	Innentitelbild: Enabling Lithium Metal Anode in Nonflammable Phosphate Electrolyte with Electrochemically Induced Chemical Reactions (<i>Angew. Chem.</i> 35/2021). <i>Angewandte Chemie</i> , 2021, 133, 19042-19042.	1.6	0