

Pengcheng Dai

List of Publications by Year in descending order

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59
papers

4,222
citations

126858

33
h-index

123376

61
g-index

62
all docs

62
docs citations

62
times ranked

7169
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Organic Frameworks Derived Nanotube of Nickel-Cobalt Bimetal Phosphides as Highly Efficient Electrocatalysts for Overall Water Splitting. <i>Advanced Functional Materials</i> , 2017, 27, 1703455.	7.8	597
2	High oxygen reduction activity on a metal-organic framework derived carbon combined with high degree of graphitization and pyridinic-N dopants. <i>Journal of Materials Chemistry A</i> , 2017, 5, 789-795.	5.2	171
3	Nickel metal-organic framework implanted on graphene and incubated to be ultrasmall nickel phosphide nanocrystals acts as a highly efficient water splitting electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1682-1691.	5.2	168
4	Metal-organic frameworks: a promising platform for constructing non-noble electrocatalysts for the oxygen-reduction reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1964-1988.	5.2	165
5	Forming Buried Junctions to Enhance the Photovoltage Generated by Cuprous Oxide in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13493-13497.	7.2	160
6	Missing-node directed synthesis of hierarchical pores on a zirconium metal-organic framework with tunable porosity and enhanced surface acidity via a microdroplet flow reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22372-22379.	5.2	159
7	In Situ Synthesis Strategy for Hierarchically Porous Ni ₂ P Polyhedrons from MOFs Templates with Enhanced Electrochemical Properties for Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 11642-11650.	4.0	158
8	Improving Hematite-based Photoelectrochemical Water Splitting with Ultrathin TiO ₂ by Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12005-12011.	4.0	155
9	Template-free synthesis of boron nitride foam-like porous monoliths and their high-end applications in water purification. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1469-1478.	5.2	133
10	Phase selective synthesis of metastable orthorhombic Cu ₂ ZnSnS ₄ . <i>Journal of Materials Chemistry</i> , 2012, 22, 7502.	6.7	123
11	Adsorption Site Selective Occupation Strategy within a Metal-Organic Framework for Highly Efficient Sieving Acetylene from Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4570-4574.	7.2	117
12	Improved Li ⁺ Storage through Homogeneous N-Doping within Highly Branched Tubular Graphitic Foam. <i>Advanced Materials</i> , 2017, 29, 1603692.	11.1	113
13	Multifunctional Superelastic Foam-Like Boron Nitride Nanotubular Cellular-Network Architectures. <i>ACS Nano</i> , 2017, 11, 558-568.	7.3	110
14	Band-gap tunable (Cu ₂ Sn) _x /3Zn _{1-x} S nanoparticles for solar cells. <i>Chemical Communications</i> , 2010, 46, 5749.	2.2	105
15	Solar Hydrogen Generation by Silicon Nanowires Modified with Platinum Nanoparticle Catalysts by Atomic Layer Deposition. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11119-11123.	7.2	100
16	Design of BN porous sheets with richly exposed (002) plane edges and their application as TiO ₂ visible light sensitizer. <i>Nano Energy</i> , 2015, 16, 19-27.	8.2	99
17	Spherical Superstructure of Boron Nitride Nanosheets Derived from Boron-Containing Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 8755-8762.	6.6	96
18	Porous copper zinc tin sulfide thin film as photocathode for double junction photoelectrochemical solar cells. <i>Chemical Communications</i> , 2012, 48, 3006.	2.2	89

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19	Bottom-Up Fabrication of Ultrathin 2D Zr Metal-Organic Framework Nanosheets through a Facile Continuous Microdroplet Flow Reaction. <i>Chemistry of Materials</i> , 2018, 30, 3048-3059.	3.2	85
20	High-throughput fabrication of strutted graphene by ammonium-assisted chemical blowing for high-performance supercapacitors. <i>Nano Energy</i> , 2015, 16, 81-90.	8.2	83
21	Biomass-Derived Carbon Paper to Sandwich Magnetite Anode for Long-Life Li-Ion Battery. <i>ACS Nano</i> , 2019, 13, 11901-11911.	7.3	82
22	Densely Interconnected Porous BN Frameworks for Multifunctional and Isotropically Thermoconductive Polymer Composites. <i>Advanced Functional Materials</i> , 2018, 28, 1801205.	7.8	76
23	Highly dispersed Zn nanoparticles confined in a nanoporous carbon network: promising anode materials for sodium and potassium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17371-17377.	5.2	75
24	Aluminum matrix composites reinforced with multi-walled boron nitride nanotubes fabricated by a high-pressure torsion technique. <i>Materials and Design</i> , 2015, 88, 451-460.	3.3	67
25	Pollutant capturing SERS substrate: porous boron nitride microfibers with uniform silver nanoparticle decoration. <i>Nanoscale</i> , 2015, 7, 18992-18997.	2.8	56
26	Monodispersed cation-disordered cubic AgInS ₂ nanocrystals with enhanced fluorescence. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	51
27	Superstructure of a Metal-Organic Framework Derived from Microdroplet Flow Reaction: An Intermediate State of Crystallization by Particle Attachment. <i>ACS Nano</i> , 2019, 13, 2901-2912.	7.3	47
28	Graphitic carbon nitride catalyzes selective oxidative dehydrogenation of propane. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118277.	10.8	47
29	Sustained-Release Method for the Directed Synthesis of ZIF-Derived Ultrafine Co-N-C ORR Catalysts with Embedded Co Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57847-57858.	4.0	46
30	One-step and scalable synthesis of Ni ₂ P nanocrystals encapsulated in N,P-codoped hierarchically porous carbon matrix using a bipyridine and phosphonate linked nickel metal-organic framework as highly efficient electrocatalysts for overall water splitting. <i>Electrochimica Acta</i> , 2019, 297, 755-766.	2.6	44
31	Cotton fabrics-derived flexible nitrogen-doped activated carbon cloth for high-performance supercapacitors in organic electrolyte. <i>Electrochimica Acta</i> , 2020, 354, 136717.	2.6	44
32	Boosting fast and stable potassium storage of iron selenide/carbon nanocomposites by electrolyte salt and solvent chemistry. <i>Journal of Power Sources</i> , 2021, 486, 229373.	4.0	41
33	Paper-Derived Flexible 3D Interconnected Carbon Microfiber Networks with Controllable Pore Sizes for Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37046-37056.	4.0	38
34	Boosting Fast and Stable Alkali Metal Ion Storage by Synergistic Engineering of Oxygen Vacancy and Amorphous Structure. <i>Advanced Functional Materials</i> , 2022, 32, 2106751.	7.8	38
35	Adsorption in Reversed Order of C ₂ Hydrocarbons on an Ultramicroporous Fluorinated Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	34
36	Continuous synthesis for zirconium metal-organic frameworks with high quality and productivity via microdroplet flow reaction. <i>Chinese Chemical Letters</i> , 2018, 29, 849-853.	4.8	33

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37	High performance aluminum ion battery using polyaniline/ordered mesoporous carbon composite. <i>Journal of Power Sources</i> , 2020, 477, 228702.	4.0	33
38	Adsorption Site Selective Occupation Strategy within a Metal-Organic Framework for Highly Efficient Sieving Acetylene from Carbon Dioxide. <i>Angewandte Chemie</i> , 2021, 133, 4620-4624.	1.6	33
39	Ultrafine TiO ₂ Nanoparticles Confined in N-Doped Porous Carbon Networks as Anodes of High-Performance Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2017, 4, 1516-1522.	1.7	30
40	Hierarchical tubular structures constructed from rutile TiO ₂ nanorods with superior sodium storage properties. <i>Electrochimica Acta</i> , 2016, 211, 77-82.	2.6	29
41	A CoSe@C@C core-shell structure with stable potassium storage performance realized by an effective solid electrolyte interphase layer. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11397-11404.	5.2	28
42	Flexible conductive polymer composite materials based on strutted graphene foam. <i>Composites Communications</i> , 2021, 25, 100757.	3.3	27
43	Boosting ORR Catalytic Activity by Integrating Pyridine-N Dopants, a High Degree of Graphitization, and Hierarchical Pores into a MOF-Derived N-Doped Carbon in a Tandem Synthesis. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1318-1326.	1.7	24
44	Carbonates (bicarbonates)/reduced graphene oxide as anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24645-24650.	5.2	21
45	Lithium Borocarbide LiBC as an Anode Material for Rechargeable Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18231-18236.	1.5	16
46	Metal-organic framework derived porous flakes of cobalt chalcogenides (CoX, X=O, S, Se and Te) rooted in carbon fibers as flexible electrode materials for pseudocapacitive energy storage. <i>Electrochimica Acta</i> , 2021, 369, 137681.	2.6	16
47	Carbon-coated NiSe nanoparticles anchored on reduced graphene oxide: a high-rate and long-life anode for potassium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3240-3246.	2.5	16
48	Porous Carbon Polyhedrons with High-Level Nitrogen-Doping for High-Performance Sodium-Ion Battery Anodes. <i>ChemistrySelect</i> , 2016, 1, 6442-6447.	0.7	14
49	Constructing ultrastable electrode/electrolyte interface for rapid potassium ion storage capability via salt chemistry and interfacial engineering. <i>Nano Research</i> , 2022, 15, 2083-2091.	5.8	13
50	Metal-organic Frameworks Derived CoS ₂ -Co/N-doped Porous Carbon with Extremely High Electrocatalytic Stability for the Oxygen Reduction Reaction. <i>International Journal of Electrochemical Science</i> , 2016, 11, 9575-9584.	0.5	11
51	Synthesis of Mesoporous γ -Al ₂ O ₃ with Spongy Structure: In-Situ Conversion of Metal-Organic Frameworks and Improved Performance as Catalyst Support in Hydrodesulfurization. <i>Materials</i> , 2018, 11, 1067.	1.3	10
52	Impact of moderate ligand hydrolysis on morphology evolution and the morphology-dependent breathing effect performance of MIL-53(Al). <i>CrystEngComm</i> , 2018, 20, 2102-2111.	1.3	9
53	Nanoantenna Featuring Carbon Microtubes Derived from Bristle Fibers of Plane Trees for Supercapacitors in an Organic Electrolyte. <i>ACS Applied Energy Materials</i> , 2020, 3, 12627-12634.	2.5	9
54	High CO ₂ separation performance on a metal-organic framework composed of nano-cages lined with an ultra-high density of dual-side open metal sites. <i>Materials Advances</i> , 2022, 3, 493-497.	2.6	8

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55	Porous monolith of few-layered boron nitride for effective water cleanup. Journal of Materials Chemistry A, 2022, 10, 846-854.	5.2	8
56	Adsorption in Reversed Order of C ₂ Hydrocarbons on an Ultramicroporous Fluorinated Metal-Organic Framework. Angewandte Chemie, 2022, 134, .	1.6	7
57	Nanoparticle-based screen printing of copper zinc tin sulfide thin film as photocathode for quantum dot sensitized solar cell. Materials Letters, 2015, 158, 198-201.	1.3	6
58	Easy and General Synthesis of Large-Sized Mesoporous Rare-Earth Oxide Thin Films by Micelle Assembly. Chemistry - an Asian Journal, 2015, 10, 2590-2593.	1.7	2
59	Carbonyl Groups Modified Graphite Sheets Catalyze Oxidative Dehydrogenation of Propane to Propene. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2019, , 15.	0.6	1