

Xinglong Dong

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

3,289
citations

25
h-index

56
g-index

100
ext. papers

4,409
ext. citations

8.6
avg, IF

5.26
L-index

#	Paper	IF	Citations
89	Pore chemistry and size control in hybrid porous materials for acetylene capture from ethylene. <i>Science</i> , 2016 , 353, 141-4	33.3	783
88	UTSA-74: A MOF-74 Isomer with Two Accessible Binding Sites per Metal Center for Highly Selective Gas Separation. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5678-84	16.4	351
87	Catalytically active single-atom niobium in graphitic layers. <i>Nature Communications</i> , 2013 , 4, 1924	17.4	223
86	Topologically guided tuning of Zr-MOF pore structures for highly selective separation of C6 alkane isomers. <i>Nature Communications</i> , 2018 , 9, 1745	17.4	166
85	Tailor-Made Microporous Metal-Organic Frameworks for the Full Separation of Propane from Propylene Through Selective Size Exclusion. <i>Advanced Materials</i> , 2018 , 30, e1805088	24	139
84	Investigating the Origin of Enhanced C Selectivity in Oxide-/Hydroxide-Derived Copper Electrodes during CO Electroreduction. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4213-4222	16.4	109
83	Enhanced microwave absorption by arrayed carbon fibers and gradient dispersion of Fe nanoparticles in epoxy resin composites. <i>Carbon</i> , 2016 , 96, 987-997	10.4	108
82	Capture of organic iodides from nuclear waste by metal-organic framework-based molecular traps. <i>Nature Communications</i> , 2017 , 8, 485	17.4	99
81	Graphene nanoflakes with optimized nitrogen doping fabricated by arc discharge as highly efficient absorbers toward microwave absorption. <i>Carbon</i> , 2019 , 148, 204-213	10.4	74
80	Investigating the Influence of Mesoporosity in Zeolite Beta on Its Catalytic Performance for the Conversion of Methanol to Hydrocarbons. <i>ACS Catalysis</i> , 2015 , 5, 5837-5845	13.1	68
79	Direct Imaging of Atomically Dispersed Molybdenum that Enables Location of Aluminum in the Framework of Zeolite ZSM-5. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 819-825	16.4	63
78	Light Hydrocarbon Adsorption Mechanisms in Two Calcium-Based Microporous Metal Organic Frameworks. <i>Chemistry of Materials</i> , 2016 , 28, 1636-1646	9.6	61
77	One-of-a-kind: a microporous metal-organic framework capable of adsorptive separation of linear, mono- and di-branched alkane isomers via temperature- and adsorbate-dependent molecular sieving. <i>Energy and Environmental Science</i> , 2018 , 11, 1226-1231	35.4	58
76	A nitrogen-rich covalent organic framework for simultaneous dynamic capture of iodine and methyl iodide. <i>CheM</i> , 2021 , 7, 699-714	16.2	53
75	Beyond Creation of Mesoporosity: The Advantages of Polymer-Based Dual-Function Templates for Fabricating Hierarchical Zeolites. <i>Advanced Functional Materials</i> , 2016 , 26, 1881-1891	15.6	51
74	Microporous cokes formed in zeolite catalysts enable efficient solar evaporation. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6860-6865	13	41
73	[Cu(PhS)(BuNH)(H)] Reveals the Coexistence of Large Planar Cores and Hemispherical Shells in High-Nuclearity Copper Nanoclusters. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8696-8705	16.4	37

72	Engineering effective structural defects of metal-organic frameworks to enhance their catalytic performances. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4464-4472	13	31
71	Converting Hierarchical to Bulk Structure: A Strategy for Encapsulating Metal Oxides and Noble Metals in Zeolites. <i>Chemistry of Materials</i> , 2018 , 30, 6361-6369	9.6	30
70	Soluble Polymers with Intrinsic Porosity for Flue Gas Purification and Natural Gas Upgrading. <i>Advanced Materials</i> , 2017 , 29, 1605826	24	28
69	Catalytic pyrolysis of microalga <i>Chlorella pyrenoidosa</i> for production of ethylene, propylene and butene. <i>RSC Advances</i> , 2013 , 3, 25780	3.7	28
68	FeCoNiSi Al _{0.4} high entropy alloy powders with dual-phase microstructure: Improving microwave absorbing properties via controlling phase transition. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 179-188	5.7	27
67	Efficient electrochemical transformation of CO to C/C chemicals on benzimidazole-functionalized copper surfaces. <i>Chemical Communications</i> , 2018 , 54, 11324-11327	5.8	27
66	Recent progress in the direct synthesis of hierarchical zeolites: synthetic strategies and characterization methods. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 2195-2212	7.8	25
65	Functionalized metal organic frameworks for effective capture of radioactive organic iodides. <i>Faraday Discussions</i> , 2017 , 201, 47-61	3.6	25
64	Arc-discharge synthesis of nitrogen-doped C embedded TiCN nanocubes with tunable dielectric/magnetic properties for electromagnetic absorbing applications. <i>Nanoscale</i> , 2019 , 11, 19994-20005	7.7	25
63	Magnetic Behavior, Electromagnetic Multiresonances, and Microwave Absorption of the Interfacial Engineered Fe@FeSi/SiO ₂ Nanocomposite. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1309-1320	5.6	24
62	Interface evolution in the platelet-like SiC@C and SiC@SiO ₂ monocrystal nanocapsules. <i>Nano Research</i> , 2017 , 10, 2644-2656	10	23
61	Splitting Mono- and Dibranching Alkane Isomers by a Robust Aluminum-Based Metal-Organic Framework Material with Optimal Pore Dimensions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 6925-6929	16.4	23
60	Nitrogen-doped graphene layer-encapsulated NiFe bimetallic nanoparticles synthesized by an arc discharge method for a highly efficient microwave absorber. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 1148-1160	6.8	23
59	A new mechanism for improving electromagnetic properties based on tunable crystallographic structures of FeCoNiSi Al high entropy alloy powders. <i>RSC Advances</i> , 2018 , 8, 14936-14946	3.7	23
58	Direct Imaging of Atomically Dispersed Molybdenum that Enables Location of Aluminum in the Framework of Zeolite ZSM-5. <i>Angewandte Chemie</i> , 2020 , 132, 829-835	3.6	23
57	Fine Tuning the Diffusion Length in Hierarchical ZSM-5 To Maximize the Yield of Propylene in Catalytic Cracking of Hydrocarbons. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15832-15840	8.3	23
56	Controlling the phenolic resin-based amorphous carbon content for enhancing cycling stability of Si nanosheets@C anodes for lithium-ion batteries. <i>Applied Surface Science</i> , 2019 , 476, 1000-1007	6.7	21
55	Optical emission spectroscopy diagnosis of energetic Ar ions in synthesis of SiC polytypes by DC arc discharge plasma. <i>Nano Research</i> , 2018 , 11, 1470-1481	10	21

54	Ionic Functionalization of Multivariate Covalent Organic Frameworks to Achieve an Exceptionally High Iodine-Capture Capacity. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22432-22440	16.4	21
53	Formation mechanism and optical characterization of polymorphic silicon nanostructures by DC arc-discharge. <i>RSC Advances</i> , 2015 , 5, 68714-68721	3.7	20
52	Selective Acetylene Adsorption within an Imino-Functionalized Nanocage-Based Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 5999-6006	9.5	19
51	Synthesis and electrochemical activities of TiC/C core-shell nanocrystals. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 500-509	5.7	19
50	Dominant pseudocapacitive lithium storage in the carbon-coated ferric oxide nanoparticles (Fe ₂ O ₃ @C) towards anode materials for lithium-ion batteries. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 8186-8197	6.7	18
49	Integration of Open Metal Sites and Lewis Basic Sites for Construction of a Cu MOF with a Rare Chiral O ⁻ -type cage for high performance in methane purification. <i>Chemistry - A European Journal</i> , 2018 , 24, 13181-13187	4.8	18
48	Oxygen-containing coke species in zeolite-catalyzed conversion of methanol to hydrocarbons. <i>Catalysis Science and Technology</i> , 2016 , 6, 8157-8165	5.5	16
47	Highly Active Heterogeneous Catalyst for Ethylene Dimerization Prepared by Selectively Doping Ni on the Surface of a Zeolitic Imidazolate Framework. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7144-7153	16.4	15
46	A Roadmap to Sorption-Based Atmospheric Water Harvesting: From Molecular Sorption Mechanism to Sorbent Design and System Optimization. <i>Environmental Science & Technology</i> , 2021 , 55, 6542-6560	10.3	15
45	Incorporation of magnetic component to construct (TiC/Ni)@C ternary composite with heterogeneous interface for enhanced microwave absorption. <i>Journal of Alloys and Compounds</i> , 2019 , 778, 779-786	5.7	13
44	The production of light olefins by catalytic cracking of the microalga <i>Isochrysis zhanjiangensis</i> over a modified ZSM-5 catalyst. <i>Chinese Journal of Catalysis</i> , 2014 , 35, 684-691	11.3	12
43	Fabrication of nanostructured V ₂ O ₅ via urea combustion for high-performance Li-ion battery cathode. <i>RSC Advances</i> , 2015 , 5, 4256-4260	3.7	11
42	Strong microwave absorption of Fe@SiO ₂ nanocapsules fabricated by one-step high energy plasma. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 129, 242-251	3.9	11
41	Revisiting Al-Ni-Zr bulk metallic glasses using the cluster-resonance model. <i>Science Bulletin</i> , 2011 , 56, 3902-3907		10
40	Regulation of dielectric loss by different exposed crystal facets in graphite-coated titanium carbide nanocomposites. <i>Ceramics International</i> , 2020 , 46, 18339-18346	5.1	9
39	Highly selective synthesis of para-cresol by conversion of anisole on ZSM-5 zeolites. <i>Microporous and Mesoporous Materials</i> , 2014 , 185, 61-65	5.3	9
38	Preparation of a microalgal photoanode for hydrogen production by photo-bioelectrochemical water-splitting. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 13045-13049	6.7	9
37	Morphological and structural evolution of Si-Cu nanocomposites by an instantaneous vapor-liquid-solid growth and the electrochemical lithiation/delithiation performances. <i>Journal of Solid State Electrochemistry</i> , 2019 , 23, 735-748	2.6	9

36	synthesis and electronic transport of the carbon-coated Ag@C/MWCNT nanocomposite.. <i>RSC Advances</i> , 2018 , 8, 7450-7456	3.7	8
35	High-Efficiency Separation of n-Hexane by a Dynamic Metal-Organic Framework with Reduced Energy Consumption. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10593-10597	16.4	8
34	Novel in situ Synthesized Fe@C Magnetic Nanocapsules Used as Adsorbent for Removal of Organic Dyes and its Recycling. <i>Nano</i> , 2016 , 11, 1650013	1.1	6
33	Separation of hexane isomers by introducing triangular-like and quadrilateral-like channels in a bcu-type metal-organic framework. <i>Nano Research</i> , 2021 , 14, 526-531	10	6
32	Probing the Catalytic Active Sites of Mo/HZSM-5 and Their Deactivation during Methane Dehydroaromatization. <i>Cell Reports Physical Science</i> , 2021 , 2, 100309	6.1	6
31	Carbon nanotube supported oriented metal organic framework membrane for effective ethylene/ethane separation.. <i>Science Advances</i> , 2022 , 8, eabm6741	14.3	6
30	Methanol-to-Olefin Conversion over Small-Pore DDR Zeolites: Tuning the Propylene Selectivity via the Olefin-Based Catalytic Cycle. <i>ACS Catalysis</i> , 2020 , 10, 3009-3017	13.1	5
29	Facile synthesis of ceramic SiC-based nanocomposites and the superior electrochemical lithiation/delithiation performances. <i>Materials Chemistry and Physics</i> , 2020 , 243, 122618	4.4	5
28	Three-dimensional porous carbon skeleton supporting Si nanosheets as anode for high-performance lithium ion batteries. <i>Ionics</i> , 2020 , 26, 2233-2245	2.7	5
27	Buildup of Sn@CNT nanorods by in-situ thermal plasma and the electronic transport behaviors. <i>Science China Materials</i> , 2018 , 61, 1605-1613	7.1	3
26	Electrical/thermal behaviors of bimetallic (Ag-Cu, Ag-Sn) nanoparticles for printed electronics. <i>Nanotechnology</i> , 2020 , 31, 135603	3.4	3
25	Enhanced dielectric and conductivity of carbon-coated SiC nanocomposites in the terahertz frequency range. <i>Nanotechnology</i> , 2021 ,	3.4	3
24	Upgrading Octane Number of Naphtha by a Robust and Easily Attainable Metal-Organic Framework through Selective Molecular Sieving of Alkane Isomers. <i>Chemistry - A European Journal</i> , 2021 , 27, 11795-11798	4.8	3
23	Highly dispersed Pd nanoparticles confined in ZSM-5 zeolite crystals for selective hydrogenation of cinnamaldehyde. <i>Microporous and Mesoporous Materials</i> , 2021 , 111566	5.3	2
22	Facile synthesis of TiO ₂ /WO ₃ nanocomposites and the electrochemical lithiation/delithiation activity. <i>Journal of Materials Science</i> , 2021 , 56, 14505-14517	4.3	2
21	In Situ Synthesis of CNTs/Cu Nanocomposites and the Electronic Transport Properties. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800557	1.3	2
20	Characterization and Formation Mechanism of the Nanodiamond Synthesized by A High Energy Arc-Plasma. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800704	1.6	2
19	Laser ablation of pristine Fe foil for constructing a layer-by-layer SiO/FeO/Fe integrated anode for high cycling-stability lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10365-10376	3.6	2

18	Ionic Functionalization of Multivariate Covalent Organic Frameworks to Achieve an Exceptionally High Iodine-Capture Capacity. <i>Angewandte Chemie</i> , 2021 , 133, 22606-22614	3.6	2
17	Synthesis of ZSM-2 nanocrystals at ambient temperature. <i>Microporous and Mesoporous Materials</i> , 2014 , 185, 149-156	5.3	1
16	High-Efficiency Separation of n-Hexane by a Dynamic Metal-Organic Framework with Reduced Energy Consumption. <i>Angewandte Chemie</i> , 2021 , 133, 10687-10691	3.6	1
15	Fe ₂ O ₃ -encapsulated SiC nanowires with superior electrochemical properties as anode materials for the lithium-ion batteries. <i>Ionics</i> , 2021 , 27, 2431-2444	2.7	1
14	Synthesis of hexagonal-shaped Cr ₃ C ₂ @C nanoplatelets and role of their intrinsic properties towards microwave absorption. <i>Materials Letters</i> , 2021 , 288, 129329	3.3	1
13	The Complex Crystal Structure and Abundant Local Defects of Zeolite EMM-17 Unraveled by Combined Electron Crystallography and Microscopy. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24227-24233	16.4	1
12	Optimized microwave absorption properties by tailoring the morphology of carbon coated TiC nanoparticles by N ₂ pressure. <i>Ceramics International</i> , 2021 , 47, 23950-23957	5.1	1
11	Balancing uptake and selectivity in a copper-based metal-organic framework for xenon and krypton separation. <i>Separation and Purification Technology</i> , 2022 , 291, 120932	8.3	1
10	Effects of Outer Shell Layer on the Electronic Transport Behaviors of Sn@SnO _x Nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2021 , 258, 2000430	1.3	0
9	In situ Generation of Molybdenum Carbide in Zeolite for Methane Dehydroaromatization. <i>Kinetics and Catalysis</i> , 2021 , 62, S48-S59	1.5	0
8	Laser-sintering fabrication of integrated Al/Ni anodes for lithium-ion batteries.. <i>RSC Advances</i> , 2022 , 12, 13168-13179	3.7	0
7	Thermally stable carbon-coated SiC/polydimethylsiloxane nanocomposites for EMI shielding in the terahertz range. <i>Materials Research Bulletin</i> , 2022 , 111900	5.1	0
6	Effect of Co-alloying Ti and V on microstructure, mechanical and tribological properties of (W _x Ti _y V _{1-x-y})C ₁₀ alloys: A combined theoretical and experimental study. <i>Journal of Alloys and Compounds</i> , 2019 , 803, 379-393	5.7	
5	Multicolor photoluminescence in ITQ-16 zeolite film. <i>Chemical Research in Chinese Universities</i> , 2016 , 32, 713-718	2.2	
4	The preparation and electrochemical performances of Al-Si/C nanocomposite anode for lithium ion battery 2013 , 213-220		
3	Arc discharge process for in-situ growth of thermally stable single-phase Cr ₃ C ₂ @C NCs for photocatalytic applications. <i>Journal of Materials Research</i> , 2022 , 37, 909	2.5	
2	Hierarchical Zeolites: Beyond Creation of Mesoporosity: The Advantages of Polymer-Based Dual-Function Templates for Fabricating Hierarchical Zeolites (Adv. Funct. Mater. 12/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 1854-1854	15.6	
1	The Complex Crystal Structure and Abundant Local Defects of Zeolite EMM-17 Unraveled by Combined Electron Crystallography and Microscopy. <i>Angewandte Chemie</i> , 2021 , 133, 24429	3.6	

