

Dong Zhai

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,360
citations

471509

17
h-index

395702

33
g-index

36
all docs

36
docs citations

36
times ranked

2016
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-atomic cobalt sites embedded in hierarchically ordered porous nitrogen-doped carbon as a superior bifunctional electrocatalyst. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12692-12697.	7.1	325
2	Isolated Single-Atom Ni ^{N₅} Catalytic Site in Hollow Porous Carbon Capsules for Efficient Lithium-Sulfur Batteries. Nano Letters, 2021, 21, 9691-9698.	9.1	167
3	In situ embedding Co ₉ S ₈ into nitrogen and sulfur codoped hollow porous carbon as a bifunctional electrocatalyst for oxygen reduction and hydrogen evolution reactions. Applied Catalysis B: Environmental, 2019, 254, 186-193.	20.2	135
4	van der Waals Heterojunction between a Bottom-Up Grown Doped Graphene Quantum Dot and Graphene for Photoelectrochemical Water Splitting. ACS Nano, 2020, 14, 1185-1195.	14.6	100
5	Enhanced carbon dioxide conversion at ambient conditions via a pore enrichment effect. Nature Communications, 2020, 11, 4481.	12.8	74
6	High-Loading Single-Atomic-Site Silver Catalysts with an Ag ₁ Ag ₂ C ₂ N ₁ Structure Showing Superior Performance for Epoxidation of Styrene. ACS Catalysis, 2021, 11, 4946-4954.	11.2	62
7	Dissolution and Absorption: A Molecular Mechanism of Mesopore Formation in Alkaline Treatment of Zeolite. Chemistry of Materials, 2015, 27, 67-74.	6.7	52
8	Origin of Dirac Cones in SiC Silagraphene: A Combined Density Functional and Tight-Binding Study. Journal of Physical Chemistry Letters, 2015, 6, 1333-1339.	4.6	41
9	Periodic DFT study on mechanism of selective catalytic reduction of NO via NH ₃ and O ₂ over the V ₂ O ₅ (001) surface: Competitive sites and pathways. Journal of Catalysis, 2013, 305, 67-75.	6.2	33
10	Chiral Hydroxytetraphenylene-Catalyzed Asymmetric Conjugate Addition of Boronic Acids to Enones. Organic Letters, 2019, 21, 5040-5045.	4.6	33
11	Theoretical Investigation of Water Gas Shift Reaction Catalyzed by Iron Group Carbonyl Complexes M(CO) ₅ (M = Fe, Ru, Os). Journal of Physical Chemistry A, 2012, 116, 2529-2535.	2.5	31
12	A first-principles evaluation of the stability, accessibility, and strength of Brønsted acid sites in zeolites. Journal of Catalysis, 2017, 352, 627-637.	6.2	29
13	Theoretical and Experimental Evidence for the Carbon-Oxygen Group Enhancement of NO Reduction. Environmental Science & Technology, 2017, 51, 14209-14216.	10.0	28
14	In Silico Design of Covalent Organic Framework-Based Electrocatalysts. JACS Au, 2021, 1, 1497-1505.	7.9	28
15	Unblocked intramolecular charge transfer for enhanced CO ₂ photoreduction enabled by an imidazolium-based ionic conjugated microporous polymer. Applied Catalysis B: Environmental, 2022, 300, 120719.	20.2	25
16	Grand Canonical Monte Carlo simulations for energy gases on PIM-1 polymer and silicalite-1. Chemical Engineering Science, 2012, 68, 101-107.	3.8	23
17	Silver-Modified Ba _{1-x} Co _{0.7} Fe _{0.2} Nb _{0.1} O _{3-δ} Perovskite Performing as a Cathodic Catalyst of Intermediate-Temperature Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2020, 12, 9421-9433.	8.0	19
18	Bifunctional poly(ionic liquid) catalyst with dual-active-center for CO ₂ conversion: Synergistic effect of triazine and imidazolium motifs. Journal of CO ₂ Utilization, 2021, 54, 101778.	6.8	17

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19	Salen-Based Conjugated Microporous Polymers for Efficient Oxygen Evolution Reaction. Chemistry - A European Journal, 2020, 26, 7720-7726.	3.3	16
20	Advantages of bimetallic nitric oxide reduction catalysts consisting of heavy metals rich in hazardous wastes. Journal of Cleaner Production, 2019, 237, 117834.	9.3	15
21	Organic Anions Facilitate in Situ Synthesis of Mesoporous LTA Zeolites. Chemistry of Materials, 2019, 31, 1528-1536.	6.7	15
22	A Porphyrin-Based Covalent Organic Framework for Metal-Free Photocatalytic Aerobic Oxidative Coupling of Amines. Chemistry - A European Journal, 2021, 27, 14390-14395.	3.3	15
23	Practical Enantioselective Synthesis of Chiroptical Polymers of Intrinsic Microporosity with Circular Polarized Luminescence. Macromolecules, 2021, 54, 11180-11186.	4.8	13
24	Reactive molecular dynamics study of thermal decomposition of nanocarbon energetic composite materials. Computational Materials Science, 2017, 131, 126-131.	3.0	11
25	Electroplating sludge-derived spinel catalysts for NO removal via NH ₃ selective catalysis reduction. Applied Surface Science, 2020, 528, 146969.	6.1	11
26	Single-atom catalysts modified by molecular groups for electrochemical nitrogen reduction. Nano Research, 2022, 15, 9663-9669.	10.4	11
27	Effect of temperature on the diffusion mechanism of xylene isomers in a FAU zeolite: a molecular dynamics study. Physical Chemistry Chemical Physics, 2012, 14, 7296.	2.8	8
28	Molecular dynamics study on core-shell structure stability of aluminum encapsulated by nano-carbon materials. Chemical Physics Letters, 2017, 669, 192-195.	2.6	8
29	Van der Waals Heterostructures Based on Porous Graphene for Photocatalytic Water Splitting. Journal of Physical Chemistry C, 2022, 126, 7849-7858.	3.1	7
30	Insight into the Contribution of Isolated Mesopore on Diffusion in Hierarchical Zeolites: The Effect of Temperature. Industrial & Engineering Chemistry Research, 2018, 57, 5453-5463.	3.7	4
31	A dramatic conformational effect of multifunctional zwitterions on zeolite crystallization. Chemical Communications, 2020, 56, 14693-14696.	4.1	1
32	In silico design of new nitrogen-rich melamine-based porous polyamides applied to CO ₂ /N ₂ separation. Chemical Physics Letters, 2021, 771, 138509.	2.6	1
33	In silico design of metal-free hydrophosphate catalysts for hydrogenation of CO ₂ to formate. Physical Chemistry Chemical Physics, 2022, 24, 2901-2908.	2.8	1
34	Synergistic effect between Pd ²⁺ and Ir ⁴⁺ species promoting direct ethane dehydrogenation into ethylene over bimetallic PdIr/AC catalysts. Catalysis Science and Technology, 0, , .	4.1	1
35	The mechanism of sugar produced from simple glycolaldehyde derivative at ambient conditions. International Journal of Quantum Chemistry, 2022, 122, .	2.0	0