

Haitao Zhao

List of Publications by Year in descending order

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56
papers

2,193
citations

236925

25
h-index

223800

46
g-index

57
all docs

57
docs citations

57
times ranked

2651
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying the Origin of Ti ³⁺ Activity toward Enhanced Electrocatalytic N ₂ Reduction over TiO ₂ Nanoparticles Modulated by Mixed-Valent Copper. <i>Advanced Materials</i> , 2020, 32, e2000299.	21.0	278
2	The First 75 Days of Novel Coronavirus (SARS-CoV-2) Outbreak: Recent Advances, Prevention, and Treatment. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 2323.	2.6	178
3	Hg ⁰ Capture over CoMoS ₂ -Al ₂ O ₃ with MoS ₂ Nanosheets at Low Temperatures. <i>Environmental Science & Technology</i> , 2016, 50, 1056-1064.	10.0	157
4	Promotion effect and mechanism of the addition of Mo on the enhanced low temperature SCR of NO _x by NH ₃ over MnO _x /Al ₂ O ₃ catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 743-752.	20.2	113
5	Structural defects in 2D MoS ₂ nanosheets and their roles in the adsorption of airborne elemental mercury. <i>Journal of Hazardous Materials</i> , 2019, 366, 240-249.	12.4	107
6	Synthesis of graphene: Potential carbon precursors and approaches. <i>Nanotechnology Reviews</i> , 2020, 9, 1284-1314.	5.8	72
7	P-Doped graphene toward enhanced electrocatalytic N ₂ reduction. <i>Chemical Communications</i> , 2020, 56, 1831-1834.	4.1	67
8	Cobalt nitride nanoparticle coated hollow carbon spheres with nitrogen vacancies as an electrocatalyst for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14498-14505.	10.3	66
9	Graphene-like MoS ₂ containing adsorbents for Hg ⁰ capture at coal-fired power plants. <i>Applied Energy</i> , 2017, 207, 254-264.	10.1	64
10	Recovery of elemental sulphur via selective catalytic reduction of SO ₂ over sulphided CoMo/Al ₂ O ₃ catalysts. <i>Fuel</i> , 2015, 147, 67-75.	6.4	60
11	MoO ₃ -adjusted γ-MnO ₂ nanosheet for catalytic oxidation of Hg ⁰ to Hg ²⁺ . <i>Applied Catalysis B: Environmental</i> , 2020, 263, 117829.	20.2	59
12	Solid Nanoporosity Governs Catalytic CO ₂ and N ₂ Reduction. <i>ACS Nano</i> , 2020, 14, 7734-7759.	14.6	59
13	Structure and crystal phase transition effect of Sn doping on anatase TiO ₂ for dichloromethane decomposition. <i>Journal of Hazardous Materials</i> , 2019, 371, 156-164.	12.4	57
14	Synthesis of Zeolites from Coal Fly Ash for Removal of Harmful Gaseous Pollutants: A Review. <i>Aerosol and Air Quality Research</i> , 2020, 20, 1127-1144.	2.1	57
15	Tuning dry reforming of methane for F-T syntheses: A thermodynamic approach. <i>Applied Energy</i> , 2018, 227, 190-197.	10.1	56
16	A recent trend: application of graphene in catalysis. <i>Carbon Letters</i> , 2021, 31, 177-199.	5.9	56
17	Partitioning of Hazardous Trace Elements among Air Pollution Control Devices in Ultra-Low-Emission Coal-Fired Power Plants. <i>Energy & Fuels</i> , 2017, 31, 6334-6344.	5.1	50
18	The Effect of Biomass on Fluidity Development in Coking Blends Using High-Temperature SAOS Rheometry. <i>Energy & Fuels</i> , 2012, 26, 1767-1775.	5.1	45

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19	N-doping enabled defect-engineering of MoS ₂ for enhanced and selective adsorption of CO ₂ : A DFT approach. <i>Applied Surface Science</i> , 2021, 542, 148556.	6.1	37
20	Promotional effect of doping Cu into cerium-titanium binary oxides catalyst for deep oxidation of gaseous dichloromethane. <i>Chemosphere</i> , 2019, 214, 553-562.	8.2	35
21	Development of Pd _n /g-C ₃ N ₄ adsorbent for Hg ⁰ removal – DFT study of influences of the support and Pd cluster size. <i>Fuel</i> , 2019, 254, 115537.	6.4	32
22	Hg ⁰ -temperature-programmed surface reaction and its application on the investigation of metal oxides for Hg ⁰ capture. <i>Fuel</i> , 2016, 181, 1089-1094.	6.4	30
23	Integrated Dynamic and Steady State Method and Its Application on the Screening of MoS ₂ Nanosheet-Containing Adsorbents for Hg ⁰ Capture. <i>Energy & Fuels</i> , 2018, 32, 5338-5344.	5.1	29
24	Promotion effect of KOH surface etching on sucrose-based hydrochar for acetone adsorption. <i>Applied Surface Science</i> , 2019, 496, 143617.	6.1	26
25	The data-intensive scientific revolution occurring where two-dimensional materials meet machine learning. <i>Cell Reports Physical Science</i> , 2021, 2, 100482.	5.6	26
26	Microwave-induced activation of additional active edge sites on the MoS ₂ surface for enhanced Hg ⁰ capture. <i>Applied Surface Science</i> , 2017, 420, 439-445.	6.1	25
27	Speciation Characteristics and Mobility of Trace Elements Across Ultralow Emission Air Pollution Control Devices. <i>Energy & Fuels</i> , 2017, 31, 13963-13971.	5.1	25
28	Fast Evolution of Sulfuric Acid Aerosol Activated by External Fields for Enhanced Emission Control. <i>Environmental Science & Technology</i> , 2020, 54, 3022-3031.	10.0	23
29	A comparative study of mechanisms of the adsorption of CO ₂ confined within graphene/MoS ₂ nanosheets: a DFT trend study. <i>Nanoscale Advances</i> , 2019, 1, 1442-1451.	4.6	22
30	Screening of Metal Oxides for Hg ⁰ Capture. <i>Energy Procedia</i> , 2015, 75, 2421-2426.	1.8	21
31	Improvement of fuel sources and energy products flexibility in coal power plants via energy-cyber-physical-systems approach. <i>Applied Energy</i> , 2019, 254, 113554.	10.1	21
32	Integration of machine learning approaches for accelerated discovery of transition-metal dichalcogenides as Hg ⁰ sensing materials. <i>Applied Energy</i> , 2019, 254, 113651.	10.1	21
33	The influence of lignocellulose on biomass pyrolysis product distribution and economics via steady state process simulation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 158, 104968.	5.5	20
34	Stabilized CO ₂ reforming of CH ₄ on modified Ni/Al ₂ O ₃ catalysts via in-situ K ₂ CO ₃ -enabled dynamic coke elimination reaction. <i>Fuel</i> , 2021, 298, 120599.	6.4	19
35	Emerging Synthesis Strategies of 2D MOFs for Electrical Devices and Integrated Circuits. <i>Small</i> , 2022, 18, .	10.0	19
36	Field test of SO ₃ removal in ultra-low emission coal-fired power plants. <i>Environmental Science and Pollution Research</i> , 2020, 27, 4746-4755.	5.3	17

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37	Reliable Semantic Communication System Enabled by Knowledge Graph. <i>Entropy</i> , 2022, 24, 846.	2.2	17
38	Mechanism of Hg ⁰ and O ₂ Interaction on the IrO ₂ (110) Surface: A Density Functional Theory Study. <i>Energy & Fuels</i> , 2019, 33, 1354-1362.	5.1	16
39	Catalytic oxidation of Hg ⁰ with O ₂ induced by synergistic coupling of CeO ₂ and MoO ₃ . <i>Journal of Hazardous Materials</i> , 2020, 381, 121037.	12.4	16
40	Co-regulation of dispersion, exposure and defect sites on CeO ₂ (111) surface for catalytic oxidation of Hg ⁰ . <i>Journal of Hazardous Materials</i> , 2022, 424, 126566.	12.4	15
41	An Investigation of SO ₃ Control Routes in Ultra-low Emission Coal-fired Power Plants. <i>Aerosol and Air Quality Research</i> , 2019, 9, 2908-2916.	2.1	13
42	Speciation and Thermal Stability of Mercury in Solid Products from Ultralow Emission Air Pollution Control Devices. <i>Energy & Fuels</i> , 2018, 32, 12655-12664.	5.1	10
43	Investigation of Arsenic Poisoned Selective Catalytic Reduction Catalyst Performance and Lifetime in Coal-Fired Power Plants. <i>Energy & Fuels</i> , 2020, 34, 12833-12840.	5.1	10
44	Distributed Channel Allocation and Time Slot Optimization for Green Internet of Things. <i>Sensors</i> , 2017, 17, 2479.	3.8	8
45	Application of Machine Learning in Industrial Boilers: Fault Detection, Diagnosis, and Prognosis. <i>ChemBioEng Reviews</i> , 2021, 8, 535-544.	4.4	7
46	Hg ⁰ Capture over MoS ₂ Nanosheets Containing Adsorbent: Effects of Temperature, Space Velocity, and Other Gas Species. <i>Energy Procedia</i> , 2017, 105, 4408-4413.	1.8	6
47	A perspective on the applications of energy-cyber-physical systems (e-CPSs) in ultra-low emission coal-fired power plants. <i>Energy Procedia</i> , 2019, 158, 6139-6144.	1.8	6
48	The relationship of morphology and catalytic performance of CeO ₂ catalysts for reducing nitrobenzene to azoxybenzene under the base-free condition. <i>Chinese Chemical Letters</i> , 2021, 32, 761-764.	9.0	5
49	Mn doped CeO ₂ -MoO ₃ /Al ₂ O ₃ catalysts for the enhanced adsorption and catalytic oxidation of Hg ⁰ in oxygen atmosphere. <i>Applied Surface Science</i> , 2022, 581, 152327.	6.1	5
50	Recovery of Elemental Mercury from Coal-derived Flue Gas using a MoS ₂ -based Material. <i>Energy Procedia</i> , 2017, 142, 3584-3589.	1.8	3
51	Adopting Big Data to Accelerate Discovery of 2D TMDCs Materials via CVR Method for the Potential Application in Urban Airborne Hg ⁰ Sensor. <i>Energy Procedia</i> , 2018, 152, 847-852.	1.8	3
52	CeO ₂ based catalysts for elemental mercury capture. <i>Energy Procedia</i> , 2019, 158, 4635-4640.	1.8	2
53	Enhancing Communication Reliability from the Semantic Level under Low SNR. <i>Electronics (Switzerland)</i> , 2022, 11, 1358.	3.1	2
54	Self-Powered Wireless Sensor Node Based on Rotational Triboelectric Nanogenerator. , 2020, , .		0

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55	A real-time optimization method for economic and effective operation of electrostatic precipitators. Journal of the Air and Waste Management Association, 2020, 70, 708-720.	1.9	0
56	Variational Sparse Bayesian Learning for Estimation of Gaussian Mixture Distributed Wireless Channels. Entropy, 2021, 23, 1268.	2.2	0