

Mindong Chen

List of Publications by Year in descending order

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107
papers

4,170
citations

109321

35
h-index

128289

60
g-index

108
all docs

108
docs citations

108
times ranked

6291
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel MOF-Derived Co@Ni Bifunctional Catalysts for Highly Efficient Zn-Air Batteries and Water Splitting. <i>Advanced Materials</i> , 2018, 30, 1705431.	21.0	667
2	Activated bio-chars derived from rice husk via one- and two-step KOH-catalyzed pyrolysis for phenol adsorption. <i>Science of the Total Environment</i> , 2019, 646, 1567-1577.	8.0	248
3	Fast sulfate formation from oxidation of SO ₂ by NO ₂ and HONO observed in Beijing haze. <i>Nature Communications</i> , 2020, 11, 2844.	12.8	161
4	Premature Mortality Attributable to Particulate Matter in China: Source Contributions and Responses to Reductions. <i>Environmental Science & Technology</i> , 2017, 51, 9950-9959.	10.0	152
5	Fabrication of a Biomass-Based Hydrous Zirconium Oxide Nanocomposite for Preferable Phosphate Removal and Recovery. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 20835-20844.	8.0	130
6	Temporal variations of six ambient criteria air pollutants from 2015 to 2018, their spatial distributions, health risks and relationships with socioeconomic factors during 2018 in China. <i>Environment International</i> , 2020, 137, 105556.	10.0	122
7	Air pollution characteristics and health risks in Henan Province, China. <i>Environmental Research</i> , 2017, 156, 625-634.	7.5	101
8	Effect of H ₂ O ₂ concentrations on copper removal using the modified hydrothermal biochar. <i>Bioresource Technology</i> , 2016, 207, 262-267.	9.6	96
9	Waste-to-energy: Dehalogenation of plastic-containing wastes. <i>Waste Management</i> , 2016, 49, 287-303.	7.4	86
10	Recent Progresses in Constructing the Highly Efficient Ni Based Catalysts With Advanced Low-Temperature Activity Toward CO ₂ Methanation. <i>Frontiers in Chemistry</i> , 2020, 8, 269.	3.6	85
11	In vitro toxicity evaluation of heavy metals in urban air particulate matter on human lung epithelial cells. <i>Science of the Total Environment</i> , 2019, 678, 301-308.	8.0	83
12	Aerosol characteristics and sources in Yangzhou, China resolved by offline aerosol mass spectrometry and other techniques. <i>Environmental Pollution</i> , 2017, 225, 74-85.	7.5	82
13	Aqueous Hg(II) immobilization by chitosan stabilized magnetic iron sulfide nanoparticles. <i>Science of the Total Environment</i> , 2018, 621, 1074-1083.	8.0	75
14	Aqueous production of secondary organic aerosol from fossil-fuel emissions in winter Beijing haze. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	75
15	Observation of Fullerene Soot in Eastern China. <i>Environmental Science and Technology Letters</i> , 2016, 3, 121-126.	8.7	67
16	Changes of air quality and its associated health and economic burden in 31 provincial capital cities in China during COVID-19 pandemic. <i>Atmospheric Research</i> , 2021, 249, 105328.	4.1	60
17	Absorbents based on maleic anhydride-modified cellulose fibers/diatomite for dye removal. <i>Journal of Materials Science</i> , 2014, 49, 6696-6704.	3.7	59
18	Toxicological effects of chlorpyrifos on growth, enzyme activity and chlorophyll a synthesis of freshwater microalgae. <i>Environmental Toxicology and Pharmacology</i> , 2016, 45, 179-186.	4.0	59

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19	CO ₂ methanation over a Ni based ordered mesoporous catalyst for the production of synthetic natural gas. RSC Advances, 2016, 6, 28489-28499.	3.6	58
20	First Chemical Characterization of Refractory Black Carbon Aerosols and Associated Coatings over the Tibetan Plateau (4730 m a.s.l). Environmental Science & Technology, 2017, 51, 14072-14082.	10.0	55
21	Characteristics and Formation Mechanisms of Fine Particulate Nitrate in Typical Urban Areas in China. Atmosphere, 2017, 8, 62.	2.3	52
22	Impacts of power generation on air quality in China—part I: An overview. Resources, Conservation and Recycling, 2017, 121, 103-114.	10.8	51
23	Regional and local new particle formation events observed in the Yangtze River Delta region, China. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2389-2402.	3.3	48
24	Fewer-layer conductive metal-organic nanosheets enable ultrahigh mass activity for the oxygen evolution reaction. Chemical Communications, 2018, 54, 13579-13582.	4.1	47
25	Alkaline-promoted Ni based ordered mesoporous catalysts with enhanced low-temperature catalytic activity toward CO ₂ methanation. RSC Advances, 2017, 7, 18199-18210.	3.6	46
26	Chemical pyrolysis of E-waste plastics: Char characterization. Journal of Environmental Management, 2018, 214, 94-103.	7.8	46
27	Brown carbon in atmospheric fine particles in Yangzhou, China: Light absorption properties and source apportionment. Atmospheric Research, 2020, 244, 105028.	4.1	42
28	Efficient light-driven water oxidation catalyzed by a mononuclear cobalt(III) complex. Chemical Communications, 2015, 51, 17309-17312.	4.1	41
29	Catalytic oxidation of nitric oxide (NO) with carbonaceous materials. RSC Advances, 2016, 6, 8469-8482.	3.6	40
30	Characterization of Fine Particulate Matter and Associated Health Burden in Nanjing. International Journal of Environmental Research and Public Health, 2018, 15, 602.	2.6	40
31	A new application of high-efficient silver salts-based photocatalyst under natural indoor weak light for wastewater cleaning. Water Research, 2015, 81, 366-374.	11.3	39
32	Double high pollution events in the Yangtze River Delta from 2015 to 2019: Characteristics, trends, and meteorological situations. Science of the Total Environment, 2021, 792, 148349.	8.0	39
33	Carbon Dioxide Reforming of Methane over Cobalt-Nickel Bimetal-Doped Ordered Mesoporous Alumina Catalysts with Advanced Catalytic Performances. ChemCatChem, 2016, 8, 2536-2548.	3.7	36
34	3D hole-transporting materials based on coplanar quinolizino acridine for highly efficient perovskite solar cells. Chemical Science, 2017, 8, 7807-7814.	7.4	36
35	BiOCl Decorated NaNbO ₃ Nanocubes: A Novel p-n Heterojunction Photocatalyst With Improved Activity for Ofloxacin Degradation. Frontiers in Chemistry, 2018, 6, 393.	3.6	36
36	Construction of Nano-Fe ₂ O ₃ -Decorated Flower-Like MoS ₂ with Fe-S Bonds for Efficient Photoreduction of CO ₂ under Visible-Light Irradiation. ACS Sustainable Chemistry and Engineering, 2020, 8, 12603-12611.	6.7	34

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37	Co-pyrolysis of E-Waste Nonmetallic Residues with Biowastes. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9086-9093.	6.7	33
38	Contamination and Risk Assessment of Estrogens in Livestock Manure: A Case Study in Jiangsu Province, China. <i>International Journal of Environmental Research and Public Health</i> , 2018, 15, 125.	2.6	32
39	C1-C2 alkyl aminiums in urban aerosols: Insights from ambient and fuel combustion emission measurements in the Yangtze River Delta region of China. <i>Environmental Pollution</i> , 2017, 230, 12-21.	7.5	29
40	Designing and Fabricating Ordered Mesoporous Metal Oxides for CO ₂ Catalytic Conversion: A Review and Prospect. <i>Materials</i> , 2019, 12, 276.	2.9	29
41	Effect of TiO ₂ Surface Structure on the Hydrogen Production Activity of the Pt@CuO/TiO ₂ Photocatalysts for Water Splitting. <i>ChemCatChem</i> , 2014, 6, 842-847.	3.7	28
42	Atmospheric emissions of Cu and Zn from coal combustion in China: Spatio-temporal distribution, human health effects, and short-term prediction. <i>Environmental Pollution</i> , 2017, 229, 724-734.	7.5	28
43	Characterization of Size-Resolved Hygroscopicity of Black Carbon-Containing Particle in Urban Environment. <i>Environmental Science & Technology</i> , 2019, 53, 14212-14221.	10.0	27
44	A comprehensive investigation of aqueous-phase photochemical oxidation of 4-ethylphenol. <i>Science of the Total Environment</i> , 2019, 685, 976-985.	8.0	25
45	Laboratory observations of temperature and humidity dependencies of nucleation and growth rates of sub- μm particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 1919-1929.	3.3	24
46	Screening Transition Metals (Mn, Fe, Co, and Cu) Promoted Ni-Based CO ₂ Methanation Bimetal Catalysts with Advanced Low-Temperature Activities. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 8056-8072.	3.7	24
47	The role and fate of inorganic nitrogen species during UVA/TiO ₂ disinfection. <i>Water Research</i> , 2015, 80, 12-19.	11.3	22
48	An efficient Ce-doped MoO ₃ catalyst and its photo-thermal catalytic synergetic degradation performance for dye pollutant. <i>Catalysis Communications</i> , 2015, 66, 42-45.	3.3	22
49	Catalytic CO ₂ Gasification of Rice Husk Char for Syngas and Silica-Based Nickel Nanoparticles Production. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 8919-8928.	3.7	22
50	Characteristics of atmospheric single particles during haze periods in a typical urban area of Beijing: A case study in October, 2014. <i>Journal of Environmental Sciences</i> , 2016, 40, 145-153.	6.1	22
51	Carbon Dioxide Captured by Metal Organic Frameworks and Its Subsequent Resource Utilization Strategy: A Review and Prospect. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3059-3078.	0.9	22
52	Recent progresses in the synthesis of MnO ₂ nanowire and its application in environmental catalysis. <i>RSC Advances</i> , 2021, 11, 35494-35513.	3.6	22
53	Isolation, Immobilization, and Degradation Performance of the 17 β -Estradiol-Degrading Bacterium <i>Rhodococcus</i> sp. JX-2. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	2.4	21
54	Investigation of relationships between meteorological conditions and high PM ₁₀ pollution in a megacity in the western Yangtze River Delta, China. <i>Air Quality, Atmosphere and Health</i> , 2017, 10, 713-724.	3.3	20

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55	A 1-year characterization of organic aerosol composition and sources using an extractive electrospray ionization time-of-flight mass spectrometer (EESI-TOF). <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 7875-7893.	4.9	20
56	Effects of the fabrication strategy on the catalytic performances of Co-Ni bimetal ordered mesoporous catalysts toward CO ₂ methanation. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3038-3049.	4.9	19
57	Facilely fabricating mesoporous nanocrystalline Ce-Zr solid solution supported CuO-based catalysts with advanced low-temperature activity toward CO oxidation. <i>Catalysis Science and Technology</i> , 2019, 9, 5605-5625.	4.1	19
58	Evaluation of particulate matter deposition in the human respiratory tract during winter in Nanjing using size and chemically resolved ambient measurements. <i>Air Quality, Atmosphere and Health</i> , 2019, 12, 529-538.	3.3	19
59	An intensive study on aerosol optical properties and affecting factors in Nanjing, China. <i>Journal of Environmental Sciences</i> , 2016, 40, 35-43.	6.1	18
60	Physicochemical properties and ecotoxicological effects of yttrium oxide nanoparticles in aquatic media: Role of low molecular weight natural organic acids. <i>Environmental Pollution</i> , 2016, 212, 113-120.	7.5	18
61	Sensitive Detection of Ambient Formaldehyde by Incoherent Broadband Cavity Enhanced Absorption Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 2697-2705.	6.5	18
62	Chemical Characterization of Seasonal PM _{2.5} Samples and Their Cytotoxicity in Human Lung Epithelial Cells (A549). <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4599.	2.6	17
63	Study of Complete Oxidation of Formaldehyde Over MnO _x -CeO ₂ Mixed Oxide Catalysts at Ambient Temperature. <i>Catalysis Letters</i> , 2018, 148, 2880-2890.	2.6	16
64	Recent Progresses in the Design and Fabrication of Highly Efficient Ni-Based Catalysts With Advanced Catalytic Activity and Enhanced Anti-coke Performance Toward CO ₂ Reforming of Methane. <i>Frontiers in Chemistry</i> , 2020, 8, 581923.	3.6	16
65	Comparison of air pollutants and their health effects in two developed regions in China during the COVID-19 pandemic. <i>Journal of Environmental Management</i> , 2021, 287, 112296.	7.8	15
66	Using Fenton Oxidation to Simultaneously Remove Different Estrogens from Cow Manure. <i>International Journal of Environmental Research and Public Health</i> , 2016, 13, 917.	2.6	14
67	Co-exposure of Freshwater Microalgae to Tetrabromobisphenol A and Sulfadiazine: Oxidative Stress Biomarker Responses and Joint Toxicity Prediction. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2017, 99, 438-444.	2.7	14
68	CO Oxidation over Metal Oxide (La ₂ O ₃ , Fe ₂ O ₃ , Pr ₂ O ₃ , Sm ₂ O ₃ , and MnO ₂) Doped CuO-Based Catalysts Supported on Mesoporous Ce _{0.8} Zr _{0.2} O ₂ with Intensified Low-Temperature Activity. <i>Catalysts</i> , 2019, 9, 724.	3.5	14
69	Fabrication of MnO _x -CeO ₂ /cordierite catalysts doped with FeO _x and CuO for preferable catalytic oxidation of chlorobenzene. <i>Environmental Technology (United Kingdom)</i> 1 0.784314 rgBT /Qverlock	1.4	14
70	Triphenylethylene-based biimidazoles showing preferable detection of explosives and their rhenium complexes undergoing chiral and cis-trans transformations. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3765-3771.	5.5	13
71	Seasonal variation of oxidative potential of water-soluble components in PM _{2.5} and PM ₁ in the Yangtze River Delta, China. <i>Air Quality, Atmosphere and Health</i> , 2021, 14, 1825-1836.	3.3	13
72	Tracers from Biomass Burning Emissions and Identification of Biomass Burning. <i>Atmosphere</i> , 2021, 12, 1401.	2.3	13

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73	Research Progress in Semiconductor Materials with Application in the Photocatalytic Reduction of CO ₂ . <i>Catalysts</i> , 2022, 12, 372.	3.5	13
74	Gravimetric analysis for PM _{2.5} mass concentration based on year-round monitoring at an urban site in Beijing. <i>Journal of Environmental Sciences</i> , 2016, 40, 154-160.	6.1	12
75	Construction of Z-scheme Bi ₃ TaO ₇ /Zn _{0.5} Cd _{0.5} S composites with high efficiency for levofloxacin degradation under visible light irradiation. <i>Dalton Transactions</i> , 2021, 50, 14920-14931.	3.3	12
76	Chemical characteristics, sources and evolution processes of fine particles in Lin'an, Yangtze River Delta, China. <i>Chemosphere</i> , 2020, 254, 126851.	8.2	11
77	Comparative Toxic Effects of Manufactured Nanoparticles and Atmospheric Particulate Matter in Human Lung Epithelial Cells. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 22.	2.6	10
78	Influence of regional emission controls on the chemical composition, sources, and size distributions of submicron aerosols: Insights from the 2014 Nanjing Youth Olympic Games. <i>Science of the Total Environment</i> , 2022, 807, 150869.	8.0	10
79	Self-assembly of highly uniform LiFePO ₄ hierarchical nanostructures by surfactant molecules in a new mixture medium. <i>Ionics</i> , 2012, 18, 541-547.	2.4	9
80	High chemiluminescence performance of a macroscale Co ₃ O ₄ assemblies-based sensor as a fast selection mode for catalysts. <i>RSC Advances</i> , 2013, 3, 743-751.	3.6	9
81	Atmospheric contribution to boron enrichment in aboveground wheat tissues. <i>Chemosphere</i> , 2017, 174, 655-663.	8.2	9
82	A Rational Design for Enhanced Catalytic Activity and Durability: Strongly Coupled N-Doped CrO _x /Ce _{0.2} Zr _{0.8} O ₂ Nanoparticle Composites. <i>ACS Applied Nano Materials</i> , 2018, 1, 1150-1163.	5.0	9
83	Constructing Ni-based confinement catalysts with advanced performances toward the CO ₂ reforming of CH ₄ : state-of-the-art review and perspectives. <i>Catalysis Science and Technology</i> , 2021, 11, 6344-6368.	4.1	9
84	The Research Progress of the Influence of Agricultural Activities on Atmospheric Environment in Recent Ten Years: A Review. <i>Atmosphere</i> , 2021, 12, 635.	2.3	9
85	Construction of SnNb ₂ O ₆ /MgIn ₂ S ₄ heterojunction photocatalysts with enhanced visible-light-driven activity for tetracycline hydrochloride degradation and Cr(VI) reduction. <i>Catalysis Science and Technology</i> , 2022, 12, 2328-2339.	4.1	9
86	Chiral (S)-(+)-1-(5-Substituted Aryl)-4-(1-phenyl) Ethylformamido-5-amino-1,2,3-triazole: A New Class of Chiral Ligands for the Silver(I)-Promoted Enantioselective Allylation of Aldehydes. <i>Synthetic Communications</i> , 2006, 36, 1063-1070.	2.1	8
87	Controlled synthesis of Bi ₂ O ₃ /TiO ₂ catalysts with mixed alcohols for the photocatalytic oxidation of HCHO. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 1937-1947.	2.2	8
88	Efficient and Stable Photocatalytic Hydrogen Evolution Activity of Multi-Heterojunction Composite Photocatalysts: CdS and NiS ₂ Co-modified NaNbO ₃ Nanocubes. <i>Frontiers in Chemistry</i> , 2019, 7, 880.	3.6	8
89	Elucidating Adsorption Mechanisms of Phthalate Esters upon Carbon Nanotubes/Graphene and Natural Organic Acid Competitive Effects in Water by <i>DFT</i> and <i>MD</i> Calculations. <i>Bulletin of the Korean Chemical Society</i> , 2015, 36, 1631-1636.	1.9	7
90	Molecular characterization of biomass burning tracer compounds in fine particles in Nanjing, China. <i>Atmospheric Environment</i> , 2020, 240, 117837.	4.1	7

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91	Validation of a sensitive high performance liquid chromatography tandem mass spectrometric method for measuring carbohydrates in aerosol samples. <i>Journal of Chromatography A</i> , 2020, 1619, 460941.	3.7	7
92	CO ₂ Methanation over Rare Earth Doped Ni-Based Mesoporous Ce _{0.8} Zr _{0.2} O ₂ with Enhanced Low-Temperature Activity. <i>Catalysts</i> , 2021, 11, 463.	3.5	7
93	Improved Activity and Stability of Chlorobenzene Oxidation Over Transition Metal-Substituted Spinel-Type Catalysts Supported on Cordierite. <i>Catalysis Letters</i> , 2021, 151, 2313.	2.6	6
94	The Relative Contributions of Different Chemical Components to the Oxidative Potential of Ambient Fine Particles in Nanjing Area. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 2789.	2.6	6
95	Enhancing the Low-Temperature CO Oxidation over CuO-Based γ -MnO ₂ Nanowire Catalysts. <i>Nanomaterials</i> , 2022, 12, 2083.	4.1	6
96	Thermal Stability of Particle-Phase Monoethanolamine Salts. <i>Environmental Science & Technology</i> , 2018, 52, 2409-2417.	10.0	5
97	Differences of Characteristics and Performance with Bi ³⁺ and Bi ₂ O ₃ Doping Over TiO ₂ for Photocatalytic Oxidation Under Visible Light. <i>Catalysis Letters</i> , 2020, 150, 1098-1110.	2.6	5
98	Carbohydrates observations in suburb Nanjing, Yangtze River of Delta during 2017–2018: Concentration, seasonal variation, and source apportionment. <i>Atmospheric Environment</i> , 2020, 243, 117843.	4.1	4
99	Solvothermal fabrication of thin Ag nanowires assisted with AAO. <i>RSC Advances</i> , 2016, 6, 82238-82243.	3.6	3
100	Enhanced performance of alkali-modified Bi ₂ WO ₆ /Bi _{0.15} Ti _{0.85} O ₂ toward photocatalytic oxidation of HCHO under visible light. <i>Environmental Science and Pollution Research</i> , 2019, 26, 9672-9685.	5.3	3
101	Concentrations of total arsenic and arsenic species in PM _{2.5} in Nanjing, China: spatial variations and influences of local emission sources. <i>Air Quality, Atmosphere and Health</i> , 2021, 14, 271-281.	3.3	3
102	Source identification and characterization of organic nitrogen in atmospheric aerosols at a suburban site in China. <i>Science of the Total Environment</i> , 2022, 818, 151800.	8.0	3
103	Design and Preparation of Imidazole Ionic Liquid-Based Magnetic Polymers and Its Adsorption on Sunset Yellow Dye. <i>Materials</i> , 2022, 15, 2628.	2.9	3
104	Catalytic Oxidation of Chlorobenzene over Ce-Mn-Ox/TiO ₂ : Performance Study of the Porous Structure. <i>Catalysts</i> , 2022, 12, 535.	3.5	2
105	Integration of metallic TaS ₂ Co-catalyst on carbon nitride photoharvester for enhanced photocatalytic performance. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 1821-1827.	1.7	1
106	Identification and semi-quantification of nitrooxy organosulfates in aerosol particles by HPLC-MS/MS. <i>Analytical Methods</i> , 0, , .	2.7	0
107	Study on Improving the Air Quality with Emission Enhanced Control Measures in Beijing during a National Parade Event. <i>Atmosphere</i> , 2022, 13, 1019.	2.3	0