

Jiangyao Chen

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,694
citations

218677

26
h-index

265206

42
g-index

46
all docs

46
docs citations

46
times ranked

3207
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic-level insight into effect of substrate concentration and relative humidity on photocatalytic degradation mechanism of gaseous styrene. <i>Chemosphere</i> , 2022, 291, 133074.	8.2	2
2	The underappreciated role of monocarbonyl-dicarbonyl interconversion in secondary organic aerosol formation during photochemical oxidation of m-xylene. <i>Science of the Total Environment</i> , 2022, 814, 152575.	8.0	0
3	Competing pathways of cresol formation in toluene photooxidation: OH-toluene adducts react with NO ₂ or with O ₂ ?. <i>Journal of Environmental Sciences</i> , 2022, 114, 211-220.	6.1	0
4	Detection of excited triplet species from photolysis of carbonyls: Direct evidence for single oxygen formation in atmospheric environment. <i>Science of the Total Environment</i> , 2022, 837, 155464.	8.0	0
5	Superoxide radical enhanced photocatalytic performance of styrene alters its degradation mechanism and intermediate health risk on TiO ₂ /graphene surface. <i>Environmental Research</i> , 2021, 195, 110747.	7.5	27
6	Assessing the role of mineral particles in the atmospheric photooxidation of typical carbonyl compound. <i>Journal of Environmental Sciences</i> , 2021, 105, 56-63.	6.1	3
7	Atomically dispersed Pd sites on Ti-SBA-15 for efficient catalytic combustion of typical gaseous VOCs. <i>Environmental Science: Nano</i> , 2021, 8, 3735-3745.	4.3	11
8	Oxygen Isotope Tracing Study to Directly Reveal the Role of O ₂ and H ₂ O in the Photocatalytic Oxidation Mechanism of Gaseous Monoaromatics. <i>Environmental Science & Technology</i> , 2021, 55, 16617-16626.	10.0	17
9	Mechanism of atmospheric organic amines reacted with ozone and implications for the formation of secondary organic aerosols. <i>Science of the Total Environment</i> , 2020, 737, 139830.	8.0	23
10	Enhanced H-abstraction contribution for oxidation of xylenes via mineral particles: Implications for particulate matter formation and human health. <i>Environmental Research</i> , 2020, 186, 109568.	7.5	16
11	Reactor characterization and primary application of a state of art dual-reactor chamber in the investigation of atmospheric photochemical processes. <i>Journal of Environmental Sciences</i> , 2020, 98, 161-168.	6.1	11
12	Enhanced uptake of glyoxal at the acidic nanoparticle interface: implications for secondary organic aerosol formation. <i>Environmental Science: Nano</i> , 2020, 7, 1126-1135.	4.3	16
13	Mechanism of the atmospheric chemical transformation of acetylacetone and its implications in night-time second organic aerosol formation. <i>Science of the Total Environment</i> , 2020, 720, 137610.	8.0	9
14	Photocatalytic degradation mechanism of gaseous styrene over Au/TiO ₂ @CNTs: Relevance of superficial state with deactivation mechanism. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118969.	20.2	84
15	<i>In situ</i> growth of well-aligned Ni-MOF nanosheets on nickel foam for enhanced photocatalytic degradation of typical volatile organic compounds. <i>Nanoscale</i> , 2020, 12, 9462-9470.	5.6	66
16	Spatial and temporal distribution characteristics and ozone formation potentials of volatile organic compounds from three typical functional areas in China. <i>Environmental Research</i> , 2020, 183, 109141.	7.5	34
17	In-situ decoration of metallic Bi on BiOBr with exposed (110) facets and surface oxygen vacancy for enhanced solar light photocatalytic degradation of gaseous n-hexane. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1603-1612.	14.0	78
18	Cutting down on the ozone and SOA formation as well as health risks of VOCs emitted from e-waste dismantlement by integration technique. <i>Journal of Environmental Management</i> , 2019, 249, 107755.	7.8	22

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19	OH radicals determined photocatalytic degradation mechanisms of gaseous styrene in TiO ₂ system under 254 nm versus 185 nm irradiation: Combined experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117912.	20.2	84
20	Micro/nano-bubble assisted synthesis of Au/TiO ₂ @CNTs composite photocatalyst for photocatalytic degradation of gaseous styrene and its enhanced catalytic mechanism. <i>Environmental Science: Nano</i> , 2019, 6, 948-958.	4.3	62
21	Photocatalytic ozonation mechanism of gaseous n-hexane on MO _x @TiO ₂ foam nickel composite (M = Cu, Mn, Ag): unveiling the role of [•] OH and [•] O ₂ . <i>Environmental Science: Nano</i> , 2019, 6, 959-969.	4.3	46
22	Solar light induced transformation mechanism of allyl alcohol to monocarbonyl and dicarbonyl compounds on different TiO ₂ : A combined experimental and theoretical investigation. <i>Chemosphere</i> , 2019, 232, 287-295.	8.2	11
23	Highly efficient visible-light-driven photocatalytic degradation of VOCs by CO ₂ -assisted synthesized mesoporous carbon confined mixed-phase TiO ₂ nanocomposites derived from MOFs. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 337-346.	20.2	113
24	Metal-organic framework-based nanomaterials for adsorption and photocatalytic degradation of gaseous pollutants: recent progress and challenges. <i>Environmental Science: Nano</i> , 2019, 6, 1006-1025.	4.3	245
25	The synergic degradation mechanism and photothermocatalytic mineralization of typical VOCs over PtCu/CeO ₂ ordered porous catalysts under simulated solar irradiation. <i>Journal of Catalysis</i> , 2019, 370, 88-96.	6.2	69
26	Enhanced visible-light photocatalytic activity to volatile organic compounds degradation and deactivation resistance mechanism of titania confined inside a metal-organic framework. <i>Journal of Colloid and Interface Science</i> , 2018, 522, 174-182.	9.4	81
27	Fabrication of Au/TiO ₂ nanowires@carbon fiber paper ternary composite for visible-light photocatalytic degradation of gaseous styrene. <i>Catalysis Today</i> , 2017, 281, 621-629.	4.4	45
28	Visible-light-enhanced photothermocatalytic activity of ABO ₃ -type perovskites for the decontamination of gaseous styrene. <i>Applied Catalysis B: Environmental</i> , 2017, 209, 146-154.	20.2	108
29	Controlled growth of CuO/Cu ₂ O hollow microsphere composites as efficient visible-light-active photocatalysts. <i>Applied Catalysis A: General</i> , 2016, 521, 34-41.	4.3	47
30	Enhanced simultaneous PEC eradication of bacteria and antibiotics by facilely fabricated high-activity {001} facets TiO ₂ mounted onto TiO ₂ nanotubular photoanode. <i>Water Research</i> , 2016, 101, 597-605.	11.3	46
31	Soft-template assisted synthesis of mesoporous CuO/Cu ₂ O composite hollow microspheres as efficient visible-light photocatalyst. <i>Materials Letters</i> , 2016, 182, 47-51.	2.6	26
32	VOCs elimination and health risk reduction in e-waste dismantling workshop using integrated techniques of electrostatic precipitation with advanced oxidation technologies. <i>Journal of Hazardous Materials</i> , 2016, 302, 395-403.	12.4	71
33	Theoretical investigation on the adsorption configuration and •OH-initiated photocatalytic degradation mechanism of typical atmospheric VOCs styrene onto (TiO ₂) _n clusters. <i>Scientific Reports</i> , 2015, 5, 15059.	3.3	20
34	Enhanced visible-light-driven photocatalytic inactivation of <i>Escherichia coli</i> using g-C ₃ N ₄ /TiO ₂ hybrid photocatalyst synthesized using a hydrothermal-calcination approach. <i>Water Research</i> , 2015, 86, 17-24.	11.3	323
35	Can Silica Particles Reduce Air Pollution by Facilitating the Reactions of Aliphatic Aldehyde and NO ₂ ?. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11376-11383.	2.5	10
36	Pollution characteristics and health risk assessment of volatile organic compounds emitted from different plastic solid waste recycling workshops. <i>Environment International</i> , 2015, 77, 85-94.	10.0	157

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37	Pollution profiles and health risk assessment of VOCs emitted during e-waste dismantling processes associated with different dismantling methods. <i>Environment International</i> , 2014, 73, 186-194.	10.0	140
38	Vapor-phase hydrothermal synthesis of rutile TiO ₂ nanostructured film with exposed pyramid-shaped (1 1 1) surface and superiorly photoelectrocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2014, 429, 53-61.	9.4	24
39	Synthesis and Characterization of Novel Plasmonic Ag/AgX-CNTs (X = Cl, Br, I) Nanocomposite Photocatalysts and Synergetic Degradation of Organic Pollutant under Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6959-6967.	8.0	144
40	Synthesis of TiO ₂ hollow sphere multimer photocatalyst by etching titanium plate and its application to the photocatalytic decomposition of gaseous styrene. <i>Chemical Engineering Journal</i> , 2013, 228, 834-842.	12.7	38
41	Synthesis and characterization of TiO ₂ nanotube photoanode and its application in photoelectrocatalytic degradation of model environmental pharmaceuticals. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1488-1497.	3.2	46
42	Synthesis of Carbon Nanotube-Anatase TiO ₂ Sub-micrometer-sized Sphere Composite Photocatalyst for Synergistic Degradation of Gaseous Styrene. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5988-5996.	8.0	128
43	Optimization synthesis of carbon nanotubes-anatase TiO ₂ composite photocatalyst by response surface methodology for photocatalytic degradation of gaseous styrene. <i>Applied Catalysis B: Environmental</i> , 2012, 123-124, 69-77.	20.2	102
44	Adsorption and degradation of model volatile organic compounds by a combined titania-montmorillonite-silica photocatalyst. <i>Journal of Hazardous Materials</i> , 2011, 190, 416-423.	12.4	85