

Haibao Huang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6826281/publications.pdf>

Version: 2024-02-01

108
papers

6,921
citations

41344

49
h-index

64796

79
g-index

109
all docs

109
docs citations

109
times ranked

5284
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated oxidation of VOCs via vacuum ultraviolet photolysis coupled with wet scrubbing process. <i>Journal of Environmental Sciences</i> , 2023, 134, 55-64.	6.1	5
2	Mechanistic study of vacuum UV catalytic oxidation for toluene degradation over CeO ₂ nanorods. <i>Green Energy and Environment</i> , 2022, 7, 533-544.	8.7	10
3	Regulation of mixed Ag valence state by non-thermal plasma for complete oxidation of formaldehyde. <i>Chinese Chemical Letters</i> , 2022, 33, 434-437.	9.0	8
4	Catalytic ozonation of VOCs at low temperature: A comprehensive review. <i>Journal of Hazardous Materials</i> , 2022, 422, 126847.	12.4	146
5	Catalytic stability enhancement for pollutant removal via balancing lattice oxygen mobility and VOCs adsorption. <i>Journal of Hazardous Materials</i> , 2022, 424, 127337.	12.4	57
6	Selective photocatalytic oxidation of gaseous ammonia at ppb level over Pt and F modified TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120688.	20.2	30
7	Reheat treatment under vacuum induces pre-calcined δ -MnO ₂ with oxygen vacancy as efficient catalysts for toluene oxidation. <i>Chemosphere</i> , 2022, 289, 133081.	8.2	24
8	Effective regulation of surface bridging hydroxyls on TiO ₂ for superior photocatalytic activity via ozone treatment. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120952.	20.2	22
9	Recent Development and Applications of Advanced Materials via Direct Ink Writing. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	26
10	A review of volatile organic compounds (VOCs) degradation by vacuum ultraviolet (VUV) catalytic oxidation. <i>Journal of Environmental Management</i> , 2022, 307, 114559.	7.8	24
11	Constructing an ohmic junction of copper@ cuprous oxide nanocomposite with plasmonic enhancement for photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 163-176.	9.4	25
12	Accelerated iron cycle inducing molecular oxygen activation for deep oxidation of aromatic VOCs in MoS ₂ co-catalytic Fe ³⁺ /PMS system. <i>Applied Catalysis B: Environmental</i> , 2022, 309, 121235.	20.2	52
13	Quantitative Analysis of Indoor Gaseous Semi-Volatile Organic Compounds Using Solid-Phase Microextraction: Active Sampling and Calibration. <i>Atmosphere</i> , 2022, 13, 693.	2.3	1
14	Impacts of sampling-tube loss on quantitative analysis of gaseous semi-volatile organic compounds (SVOCs) using an SPME-based active sampler. <i>Chemosphere</i> , 2022, 301, 134780.	8.2	3
15	Highly efficient ozone decomposition against harsh environments over long-term stable amorphous MnO _x catalysts. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121552.	20.2	18
16	Novel Z-scheme Ag-C ₃ N ₄ /SnS ₂ plasmonic heterojunction photocatalyst for degradation of tetracycline and H ₂ production. <i>Chemical Engineering Journal</i> , 2021, 405, 126555.	12.7	124
17	Fluorinated TiO ₂ coupling with δ -MnO ₂ nanowires supported on different substrates for photocatalytic VOCs abatement under vacuum ultraviolet irradiation. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119388.	20.2	52
18	Insights into the photocatalysis mechanism of the novel 2D/3D Z-Scheme g-C ₃ N ₄ /SnS ₂ heterojunction photocatalysts with excellent photocatalytic performances. <i>Journal of Hazardous Materials</i> , 2021, 402, 123711.	12.4	33

#	ARTICLE	IF	CITATIONS
19	Z-scheme Au decorated carbon nitride/cobalt tetroxide plasmonic heterojunction photocatalyst for catalytic reduction of hexavalent chromium and oxidation of Bisphenol A. <i>Journal of Hazardous Materials</i> , 2021, 410, 124539.	12.4	52
20	Synergetic effect of vacuum ultraviolet photolysis and ozone catalytic oxidation for toluene degradation over MnO ₂ -rGO composite catalyst. <i>Chemical Engineering Science</i> , 2021, 231, 116288.	3.8	38
21	A novel Au/g-C ₃ N ₄ nanosheets/CeO ₂ hollow nanospheres plasmonic heterojunction photocatalysts for the photocatalytic reduction of hexavalent chromium and oxidation of oxytetracycline hydrochloride. <i>Chemical Engineering Journal</i> , 2021, 409, 128185.	12.7	74
22	Superior catalytic performance of Pd-loaded oxygen-vacancy-rich TiO ₂ for formaldehyde oxidation at room temperature. <i>Journal of Catalysis</i> , 2021, 396, 122-135.	6.2	65
23	Enhanced photo-degradation of gaseous toluene over MnO _x /TiO ₂ /activated carbon under a novel microwave discharge electrodeless lamps system. <i>Applied Surface Science</i> , 2021, 547, 148955.	6.1	15
24	Impact of NO _x and NH ₃ addition on toluene oxidation over MnO _x -CeO ₂ catalyst. <i>Journal of Hazardous Materials</i> , 2021, 416, 125939.	12.4	37
25	Activity enhancement of acetate precursor prepared on MnO _x -CeO ₂ catalyst for low-temperature NH ₃ -SCR: Effect of gaseous acetone addition. <i>Chinese Chemical Letters</i> , 2021, 32, 2509-2512.	9.0	14
26	A novel Z-scheme CeO ₂ /g-C ₃ N ₄ heterojunction photocatalyst for degradation of Bisphenol A and hydrogen evolution and insight of the photocatalysis mechanism. <i>Journal of Materials Science and Technology</i> , 2021, 85, 18-29.	10.7	75
27	Synergistic Effects of a Combination of Vacuum Ultraviolet-Induced Oxidation and Wet Absorption Process on Removal of Nitric Oxide at Room Temperature. <i>Journal of Environmental Engineering, ASCE</i> , 2021, 147, .	1.4	2
28	Enhanced activity and water tolerance promoted by Ce on MnO/ZSM-5 for ozone decomposition. <i>Chemosphere</i> , 2021, 280, 130664.	8.2	8
29	A highly dispersed Co-Fe bimetallic catalyst to activate peroxymonosulfate for VOC degradation in a wet scrubber. <i>Environmental Science: Nano</i> , 2021, 8, 2976-2987.	4.3	13
30	Efficient photocatalytic oxidation of gaseous toluene over F-doped TiO ₂ in a wet scrubbing process. <i>Chemical Engineering Journal</i> , 2020, 386, 121025.	12.7	51
31	Activated carbon supported MnO nanoparticles for efficient ozone decomposition at room temperature. <i>Catalysis Today</i> , 2020, 355, 573-579.	4.4	35
32	Potassium-modulated γ -MnO ₂ as robust catalysts for formaldehyde oxidation at room temperature. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118210.	20.2	178
33	Efficient activation of Pd/CeO ₂ catalyst by non-thermal plasma for complete oxidation of indoor formaldehyde at room temperature. <i>Chemosphere</i> , 2020, 246, 125762.	8.2	30
34	Toluene oxidation over mesoporous TiO ₂ in a combined process of wet-scrubbing and UV-catalysis. <i>Chemosphere</i> , 2020, 244, 125567.	8.2	19
35	Complete oxidation of formaldehyde over a Pd/CeO ₂ catalyst at room temperature: tunable active oxygen species content by non-thermal plasma activation. <i>Catalysis Science and Technology</i> , 2020, 10, 6257-6265.	4.1	21
36	The deactivation mechanism of toluene on MnO _x -CeO ₂ SCR catalyst. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119257.	20.2	86

#	ARTICLE	IF	CITATIONS
37	Mechanistic insights into toluene degradation under VUV irradiation coupled with photocatalytic oxidation. <i>Journal of Hazardous Materials</i> , 2020, 399, 122967.	12.4	48
38	Mechanistic insights into complete oxidation of chlorobenzene to CO ₂ via wet scrubber coupled with UV/PDS. <i>Chemical Engineering Journal</i> , 2020, 401, 126077.	12.7	32
39	Probing toluene catalytic removal mechanism over supported Pt nano- and single-atom-catalyst. <i>Journal of Hazardous Materials</i> , 2020, 392, 122258.	12.4	85
40	The efficacy of vacuum-ultraviolet light disinfection of some common environmental pathogens. <i>BMC Infectious Diseases</i> , 2020, 20, 127.	2.9	54
41	Simultaneous removal of multiple indoor-air pollutants using a combined process of electrostatic precipitation and catalytic decomposition. <i>Chemical Engineering Journal</i> , 2020, 388, 124219.	12.7	27
42	Effect of K ⁺ ions on efficient room-temperature degradation of formaldehyde over MnO ₂ catalysts. <i>Catalysis Today</i> , 2019, 327, 154-160.	4.4	57
43	Amorphous MnO ₂ surviving calcination: an efficient catalyst for ozone decomposition. <i>Catalysis Science and Technology</i> , 2019, 9, 5090-5099.	4.1	55
44	Role of O ₃ in the removal of HCHO using a DC streamer plasma. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 465203.	2.8	16
45	In-situ synthesis of heterojunction TiO ₂ /MnO ₂ nanostructure with excellent performance in vacuum ultraviolet photocatalytic oxidation of toluene. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118034.	20.2	57
46	Efficient photocatalytic oxidation of gaseous toluene in a bubbling reactor of water. <i>Chemosphere</i> , 2019, 233, 754-761.	8.2	36
47	Efficient catalytic removal of airborne ozone under ambient conditions over manganese oxides immobilized on carbon nanotubes. <i>Catalysis Science and Technology</i> , 2019, 9, 4036-4046.	4.1	36
48	TiO ₂ nanotube arrays modified with nanoparticles of platinum group metals (Pt, Pd, Ru): enhancement on photoelectrochemical performance. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	24
49	Titanium oxide based photocatalytic materials development and their role of in the air pollutants degradation: Overview and forecast. <i>Environment International</i> , 2019, 125, 200-228.	10.0	208
50	Supported ceria-modified silver catalysts with high activity and stability for toluene removal. <i>Environment International</i> , 2019, 128, 335-342.	10.0	36
51	Wet scrubber coupled with heterogeneous UV/Fenton for enhanced VOCs oxidation over Fe/ZSM-5 catalyst. <i>Chemosphere</i> , 2019, 227, 401-408.	8.2	28
52	Vacuum ultraviolet (VUV)-based photocatalytic oxidation for toluene degradation over pure CeO ₂ . <i>Chemical Engineering Science</i> , 2019, 200, 203-213.	3.8	42
53	BTZ-copolymer loaded graphene aerogel as new type Green and metal-free visible light photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2019, 240, 50-63.	20.2	20
54	Wet scrubber coupled with UV/PMS process for efficient removal of gaseous VOCs: Roles of sulfate and hydroxyl radicals. <i>Chemical Engineering Journal</i> , 2019, 356, 632-640.	12.7	86

#	ARTICLE	IF	CITATIONS
55	Reduced TiO ₂ with tunable oxygen vacancies for catalytic oxidation of formaldehyde at room temperature. <i>Applied Surface Science</i> , 2019, 473, 934-942.	6.1	109
56	Efficient MnO _x /SiO ₂ @AC catalyst for ozone-catalytic oxidation of gaseous benzene at ambient temperature. <i>Applied Surface Science</i> , 2019, 470, 439-447.	6.1	37
57	A novel Z-scheme Ag ₃ VO ₄ /BiVO ₄ heterojunction photocatalyst: Study on the excellent photocatalytic performance and photocatalytic mechanism. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 448-458.	20.2	322
58	Toluene degradation over Mn-TiO ₂ /CeO ₂ composite catalyst under vacuum ultraviolet (VUV) irradiation. <i>Chemical Engineering Science</i> , 2019, 195, 985-994.	3.8	39
59	Synergetic degradation of VOCs by vacuum ultraviolet photolysis and catalytic ozonation over Mn-xCe/ZSM-5. <i>Journal of Hazardous Materials</i> , 2019, 364, 770-779.	12.4	74
60	Heterogeneous activation of peroxymonosulfate over monodispersed Co ₃ O ₄ /activated carbon for efficient degradation of gaseous toluene. <i>Chemical Engineering Journal</i> , 2018, 341, 383-391.	12.7	99
61	A facile VUV/H ₂ O system without auxiliary substances for efficient degradation of gaseous toluene. <i>Chemical Engineering Journal</i> , 2018, 334, 1422-1429.	12.7	41
62	VUV/TiO ₂ photocatalytic oxidation process of methyl orange and simultaneous utilization of the lamp-generated ozone. <i>Chemical Engineering Science</i> , 2018, 177, 380-390.	3.8	19
63	Efficient degradation of H ₂ S over transition metal modified TiO ₂ under VUV irradiation: Performance and mechanism. <i>Applied Surface Science</i> , 2018, 433, 329-335.	6.1	21
64	Efficient MnO _x supported on coconut shell activated carbon for catalytic oxidation of indoor formaldehyde at room temperature. <i>Chemical Engineering Journal</i> , 2018, 334, 2050-2057.	12.7	170
65	Promotional role of Mn doping on catalytic oxidation of VOCs over mesoporous TiO ₂ under vacuum ultraviolet (VUV) irradiation. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 78-87.	20.2	95
66	Urinary metabolites of organophosphate flame retardants in China: Health risk from tris(2-chloroethyl) phosphate (TCEP) exposure. <i>Environment International</i> , 2018, 121, 1363-1371.	10.0	59
67	Effect of redox state of Ag on indoor formaldehyde degradation over Ag/TiO ₂ catalyst at room temperature. <i>Chemosphere</i> , 2018, 213, 235-243.	8.2	51
68	Facile synthesis of amorphous mesoporous manganese oxides for efficient catalytic decomposition of ozone. <i>Catalysis Science and Technology</i> , 2018, 8, 4264-4273.	4.1	88
69	Catalytic oxidation of VOCs over Mn/TiO ₂ /activated carbon under 185 nm VUV irradiation. <i>Chemosphere</i> , 2018, 208, 550-558.	8.2	53
70	Enhanced degradation of gaseous benzene by a Fenton reaction. <i>RSC Advances</i> , 2017, 7, 71-76.	3.6	37
71	UV/H ₂ O ₂ : An efficient aqueous advanced oxidation process for VOCs removal. <i>Chemical Engineering Journal</i> , 2017, 324, 44-50.	12.7	95
72	Mesoporous TiO ₂ under VUV irradiation: Enhanced photocatalytic oxidation for VOCs degradation at room temperature. <i>Chemical Engineering Journal</i> , 2017, 327, 490-499.	12.7	124

#	ARTICLE	IF	CITATIONS
73	Catalytic oxidation of benzene over Mn modified TiO ₂ /ZSM-5 under vacuum UV irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 870-878.	20.2	97
74	Photocatalytic Oxidation of Gaseous Benzene under VUV Irradiation over TiO ₂ /Zeolites Catalysts. <i>Catalysis Today</i> , 2017, 281, 649-655.	4.4	63
75	VUV photo-oxidation of gaseous benzene combined with ozone-assisted catalytic oxidation: Effect on transition metal catalyst. <i>Applied Surface Science</i> , 2017, 391, 662-667.	6.1	42
76	A Photocatalytic Rotating Disc Reactor with TiO ₂ Nanowire Arrays Deposited for Industrial Wastewater Treatment. <i>Molecules</i> , 2017, 22, 337.	3.8	8
77	Influence of peracetic acid modification on the physicochemical properties of activated carbon and its performance in the ozone-catalytic oxidation of gaseous benzene. <i>Applied Surface Science</i> , 2017, 420, 905-910.	6.1	30
78	Recent Development of VUV-Based Processes for Air Pollutant Degradation. <i>Frontiers in Environmental Science</i> , 2016, 4, .	3.3	23
79	Efficient degradation of gaseous benzene by VUV photolysis combined with ozone-assisted catalytic oxidation: Performance and mechanism. <i>Applied Catalysis B: Environmental</i> , 2016, 186, 62-68.	20.2	92
80	Toluene decomposition performance and NO _x by-product formation during a DBD-catalyst process. <i>Journal of Environmental Sciences</i> , 2015, 28, 187-194.	6.1	29
81	Low temperature catalytic oxidation of volatile organic compounds: a review. <i>Catalysis Science and Technology</i> , 2015, 5, 2649-2669.	4.1	616
82	Catalytic oxidation of gaseous benzene with ozone over zeolite-supported metal oxide nanoparticles at room temperature. <i>Catalysis Today</i> , 2015, 258, 627-633.	4.4	71
83	Novel urchin-like Fe ₂ O ₃ @SiO ₂ @TiO ₂ microparticles with magnetically separable and photocatalytic properties. <i>RSC Advances</i> , 2015, 5, 55363-55371.	3.6	8
84	Ozone-catalytic oxidation of gaseous benzene over MnO ₂ /ZSM-5 at ambient temperature: Catalytic deactivation and its suppression. <i>Chemical Engineering Journal</i> , 2015, 264, 24-31.	12.7	79
85	Enhanced degradation of gaseous benzene under vacuum ultraviolet (VUV) irradiation over TiO ₂ modified by transition metals. <i>Chemical Engineering Journal</i> , 2015, 259, 534-541.	12.7	72
86	Photooxidation of Gaseous Benzene by 185-nm VUV Irradiation. <i>Environmental Engineering Science</i> , 2014, 31, 481-486.	1.6	17
87	Highly dispersed and active supported Pt nanoparticles for gaseous formaldehyde oxidation: Influence of particle size. <i>Chemical Engineering Journal</i> , 2014, 252, 320-326.	12.7	100
88	Chemical looping combustion of biomass-derived syngas using ceria-supported oxygen carriers. <i>Bioresource Technology</i> , 2013, 140, 385-391.	9.6	22
89	Enhanced photocatalytic degradation of methylene blue under vacuum ultraviolet irradiation. <i>Catalysis Today</i> , 2013, 201, 189-194.	4.4	61
90	Mechanistic study on formaldehyde removal over Pd/TiO ₂ catalysts: Oxygen transfer and role of water vapor. <i>Chemical Engineering Journal</i> , 2013, 230, 73-79.	12.7	108

#	ARTICLE	IF	CITATIONS
91	Preparation and characterization of a hierarchical porous char from sewage sludge with superior adsorption capacity for toluene by a new two-step pore-fabricating process. <i>Bioresource Technology</i> , 2013, 146, 457-462.	9.6	42
92	Removal of Formaldehyde Using Highly Active Pt/TiO ₂ Catalysts without Irradiation. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-6.	2.5	10
93	Photocatalytic Oxidation of Gaseous Benzene under 185 nm UV Irradiation. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-6.	2.5	7
94	Effect of oxygen mobility in the lattice of Au/TiO ₂ on formaldehyde oxidation. <i>Kinetics and Catalysis</i> , 2012, 53, 239-246.	1.0	26
95	Effect of reduction treatment on structural properties of TiO ₂ supported Pt nanoparticles and their catalytic activity for formaldehyde oxidation. <i>Journal of Materials Chemistry</i> , 2011, 21, 9647.	6.7	157
96	Complete Oxidation of Formaldehyde at Room Temperature Using TiO ₂ Supported Metallic Pd Nanoparticles. <i>ACS Catalysis</i> , 2011, 1, 348-354.	11.2	276
97	Plasma-Driven Catalysis Process for Toluene Abatement: Effect of Water Vapor. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 576-580.	1.3	23
98	Abatement of Toluene in the Plasma-Driven Catalysis: Mechanism and Reaction Kinetics. <i>IEEE Transactions on Plasma Science</i> , 2011, 39, 877-882.	1.3	33
99	Complete elimination of indoor formaldehyde over supported Pt catalysts with extremely low Pt content at ambient temperature. <i>Journal of Catalysis</i> , 2011, 280, 60-67.	6.2	213
100	Photocatalytic destruction of air pollutants with vacuum ultraviolet (VUV) irradiation. <i>Catalysis Today</i> , 2011, 175, 310-315.	4.4	59
101	Photocatalytic reforming of C ₃ -polyols for H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 681-688.	20.2	53
102	Destruction of toluene by ozone-enhanced photocatalysis: Performance and mechanism. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 449-453.	20.2	104
103	Byproducts and pathways of toluene destruction via plasma-catalysis. <i>Journal of Molecular Catalysis A</i> , 2011, 336, 87-93.	4.8	171
104	Removal of Air Pollutants by Photocatalysis with Ozone in a Continuous-Flow Reactor. <i>Environmental Engineering Science</i> , 2010, 27, 651-656.	1.6	14
105	Photocatalytic reforming of glucose over La doped alkali tantalate photocatalysts for H ₂ production. <i>Catalysis Communications</i> , 2010, 12, 184-187.	3.3	53
106	Combination of photocatalysis downstream the non-thermal plasma reactor for oxidation of gas-phase toluene. <i>Journal of Hazardous Materials</i> , 2009, 171, 535-541.	12.4	71
107	The simultaneous catalytic removal of VOCs and O ₃ in a post-plasma. <i>Catalysis Today</i> , 2008, 139, 43-48.	4.4	60
108	Contribution of UV light to the decomposition of toluene in dielectric barrier discharge plasma/photocatalysis system. <i>Plasma Chemistry and Plasma Processing</i> , 2007, 27, 577-588.	2.4	55