

Chang-Mao Hung

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

2,463
citations

159585

30
h-index

223800

46
g-index

98
all docs

98
docs citations

98
times ranked

1571
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of pyrolysis temperature on polycyclic aromatic hydrocarbons production and tetracycline adsorption behavior of biochar derived from spent coffee ground. <i>Bioresource Technology</i> , 2019, 284, 197-203.	9.6	162
2	Synthesis of magnetic biochar from bamboo biomass to activate persulfate for the removal of polycyclic aromatic hydrocarbons in marine sediments. <i>Bioresource Technology</i> , 2017, 245, 188-195.	9.6	156
3	Cobalt-impregnated biochar (Co-SCG) for heterogeneous activation of peroxydisulfate for removal of tetracycline in water. <i>Bioresource Technology</i> , 2019, 292, 121954.	9.6	95
4	Degradation of 4-nonylphenol in marine sediments by persulfate over magnetically modified biochars. <i>Bioresource Technology</i> , 2019, 281, 143-148.	9.6	85
5	Wood-Biochar-Supported Magnetite Nanoparticles for Remediation of PAH-Contaminated Estuary Sediment. <i>Catalysts</i> , 2018, 8, 73.	3.5	79
6	Degradation of phthalate esters in marine sediments by persulfate over Fe ²⁺ /Ce/biochar composites. <i>Chemical Engineering Journal</i> , 2020, 384, 123301.	12.7	77
7	The degradation of phthalate esters in marine sediments by persulfate over iron ²⁺ /cerium oxide catalyst. <i>Science of the Total Environment</i> , 2019, 696, 133973.	8.0	71
8	Biochar derived from red algae for efficient remediation of 4-nonylphenol from marine sediments. <i>Chemosphere</i> , 2020, 254, 126916.	8.2	61
9	Removal of ammonia solutions used in catalytic wet oxidation processes. <i>Chemosphere</i> , 2003, 52, 989-995.	8.2	59
10	Modeling and optimization of imidacloprid degradation by catalytic percarbonate oxidation using artificial neural network and Box-Behnken experimental design. <i>Chemosphere</i> , 2020, 251, 126254.	8.2	58
11	Activation of percarbonate by water treatment sludge ²⁺ -derived biochar for the remediation of PAH-contaminated sediments. <i>Environmental Pollution</i> , 2020, 265, 114914.	7.5	57
12	Efficient Heterogeneous Activation of Persulfate by Iron-Modified Biochar for Removal of Antibiotic from Aqueous Solution: A Case Study of Tetracycline Removal. <i>Catalysts</i> , 2019, 9, 49.	3.5	50
13	The removal of polycyclic aromatic hydrocarbons (PAHs) from marine sediments using persulfate over a nano-sized iron composite of magnetite and carbon black activator. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104440.	6.7	48
14	Peroxydisulfate activation by a metal-free biochar for sulfonamide antibiotic removal in water and associated bacterial community composition. <i>Bioresource Technology</i> , 2022, 343, 126082.	9.6	48
15	Algae-derived metal-free boron-doped biochar as an efficient bioremediation pretreatment for persistent organic pollutants in marine sediments. <i>Journal of Cleaner Production</i> , 2022, 336, 130448.	9.3	46
16	Characterization and performance of Pt-Pd-Rh cordierite monolith catalyst for selectivity catalytic oxidation of ammonia. <i>Journal of Hazardous Materials</i> , 2010, 180, 561-565.	12.4	44
17	Effects of biochar on catalysis treatment of 4-nonylphenol in estuarine sediment and associated microbial community structure. <i>Environmental Pollution</i> , 2021, 268, 115673.	7.5	42
18	Degradation of organic contaminants in marine sediments by peroxydisulfate over LaFeO ₃ nanoparticles supported on water caltrop shell-derived biochar and the associated microbial community responses. <i>Journal of Hazardous Materials</i> , 2021, 420, 126553.	12.4	42

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19	Synthesis, characterization and performance of CuO/La ₂ O ₃ composite catalyst for ammonia catalytic oxidation. <i>Powder Technology</i> , 2009, 196, 56-61.	4.2	41
20	Remediation and cytotoxicity study of polycyclic aromatic hydrocarbon-contaminated marine sediments using synthesized iron oxide-carbon composite. <i>Environmental Science and Pollution Research</i> , 2018, 25, 5243-5253.	5.3	41
21	The degradation of di-(2-ethylhexyl) phthalate, DEHP, in sediments using percarbonate activated by seaweed biochars and its effects on the benthic microbial community. <i>Journal of Cleaner Production</i> , 2021, 292, 126108.	9.3	41
22	The Role of Biochar in Regulating the Carbon, Phosphorus, and Nitrogen Cycles Exemplified by Soil Systems. <i>Sustainability</i> , 2021, 13, 5612.	3.2	39
23	Cordierite-supported Pt-Pd-Rh ternary composite for selective catalytic oxidation of ammonia. <i>Powder Technology</i> , 2010, 200, 78-83.	4.2	38
24	Persulfate activation with rice husk-based magnetic biochar for degrading PAEs in marine sediments. <i>Environmental Science and Pollution Research</i> , 2019, 26, 33781-33790.	5.3	38
25	Decomposition kinetics of ammonia in gaseous stream by a nanoscale copper-cerium bimetallic catalyst. <i>Journal of Hazardous Materials</i> , 2008, 150, 53-61.	12.4	35
26	Activity of Cu-activated carbon fiber catalyst in wet oxidation of ammonia solution. <i>Journal of Hazardous Materials</i> , 2009, 166, 1314-1320.	12.4	35
27	Enhanced persulfate degradation of PAH-contaminated sediments using magnetic carbon microspheres as the catalyst substrate. <i>Chemical Engineering Research and Design</i> , 2019, 125, 219-227.	5.6	35
28	Production and characterization of a high value-added seaweed-derived biochar: Optimization of pyrolysis conditions and evaluation for sediment treatment. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 155, 105071.	5.5	32
29	Heterogeneous persulfate oxidation of BTEX and MTBE using Fe ₃ O ₄ @CB magnetite composites and the cytotoxicity of degradation products. <i>International Biodeterioration and Biodegradation</i> , 2017, 124, 109-118.	3.9	31
30	Efficacy and cytotoxicity of engineered ferromanganese-bearing sludge-derived biochar for percarbonate-induced phthalate ester degradation. <i>Journal of Hazardous Materials</i> , 2022, 422, 126922.	12.4	31
31	N-doped metal-free biochar activation of peroxymonosulfate for enhancing the degradation of antibiotics sulfadiazine from aquaculture water and its associated bacterial community composition. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107172.	6.7	31
32	Catalytic wet oxidation of ammonia solution: Activity of the nanoscale platinum-palladium-rhodium composite oxide catalyst. <i>Journal of Hazardous Materials</i> , 2009, 163, 180-186.	12.4	29
33	Electrochemical properties of PtPdRh alloy catalysts for ammonia electrocatalytic oxidation. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 13815-13821.	7.1	29
34	Decolorization of Methylene Blue by Persulfate Activated with FeO Magnetic Particles. <i>Water Environment Research</i> , 2016, 88, 675-686.	2.7	29
35	Exposure of <i>Goniopora</i> columna to polyethylene microplastics (PE-MPs): Effects of PE-MP concentration on extracellular polymeric substances and microbial community. <i>Chemosphere</i> , 2022, 297, 134113.	8.2	27
36	The effect of the calcination temperature on the activity of Cu-La-Ce composite metal catalysts for the catalytic wet oxidation of ammonia solution. <i>Powder Technology</i> , 2009, 191, 21-26.	4.2	26

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37	Electrochemical analysis of naproxen in water using poly(L-serine)-modified glassy carbon electrode. <i>Chemosphere</i> , 2020, 254, 126686.	8.2	26
38	Metal-free carbocatalysts derived from macroalga biomass (<i>Ulva lactuca</i>) for the activation of peroxymonosulfate toward the remediation of polycyclic aromatic hydrocarbons laden marine sediments and its impacts on microbial community. <i>Environmental Research</i> , 2022, 208, 112782.	7.5	25
39	Activation of peroxymonosulfate by nitrogen-doped carbocatalysts derived from brown algal (<i>Sargassum duplicatum</i>) for the degradation of polycyclic aromatic hydrocarbons in marine sediments. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106420.	6.7	24
40	Removal of polycyclic aromatic hydrocarbon (PAH)-contaminated sediments by persulfate oxidation and determination of degradation product cytotoxicity based on HepG2 and ZF4 cell lines. <i>Environmental Science and Pollution Research</i> , 2020, 27, 34596-34605.	5.3	23
41	Hydrodynamic cavitation activation of persulfate for the degradation of polycyclic aromatic hydrocarbons in marine sediments. <i>Environmental Pollution</i> , 2021, 286, 117245.	7.5	23
42	Performance and bacterial community dynamics of lignin-based biochar-coupled calcium peroxide pretreatment of waste-activated sludge for the removal of 4-nonylphenol. <i>Bioresource Technology</i> , 2022, 354, 127166.	9.6	23
43	Catalytic Wet Oxidation of Ammonia Solution: Activity of the Copper-Lanthanum-Cerium Composite Catalyst. <i>Journal of Environmental Engineering, ASCE</i> , 2004, 130, 193-200.	1.4	22
44	The efficacy and cytotoxicity of iron oxide-carbon black composites for liquid-phase toluene oxidation by persulfate. <i>Environmental Science and Pollution Research</i> , 2019, 26, 14786-14796.	5.3	22
45	Remediation of contaminated dredged harbor sediments by combining hydrodynamic cavitation, hydrocyclone, and persulfate oxidation process. <i>Journal of Hazardous Materials</i> , 2021, 420, 126594.	12.4	22
46	Degradation of 4-nonylphenol in marine sediments using calcium peroxide activated by water hyacinth (<i>Eichhornia crassipes</i>)-derived biochar. <i>Environmental Research</i> , 2022, 211, 113076.	7.5	21
47	Ecological responses of coral reef to polyethylene microplastics in community structure and extracellular polymeric substances. <i>Environmental Pollution</i> , 2022, 307, 119522.	7.5	20
48	Removal of 4-nonylphenol in activated sludge by peroxymonosulfate activated with sorghum distillery residue-derived biochar. <i>Bioresource Technology</i> , 2022, 360, 127564.	9.6	20
49	Platinum particles supported on mesoporous carbons: fabrication and electrocatalytic performance in methanol-tolerant oxygen-reduction reactions. <i>Scientific Reports</i> , 2015, 4, 5790.	3.3	18
50	Synthesis, characterization, and application of CuO-modified TiO ₂ electrode exemplified for ammonia electro-oxidation. <i>Chemical Engineering Research and Design</i> , 2017, 112, 243-253.	5.6	18
51	Assessment of the pulmonary toxic potential of nano-tobacco stem-pyrolyzed biochars. <i>Environmental Science: Nano</i> , 2019, 6, 1527-1535.	4.3	16
52	Suppression of polycyclic aromatic hydrocarbon formation during pyrolytic production of lignin-based biochar via nitrogen and boron co-doping. <i>Bioresource Technology</i> , 2022, 355, 127246.	9.6	16
53	Selective Catalytic Oxidation of Ammonia over Copper-Cerium Composite Catalyst. <i>Journal of the Air and Waste Management Association</i> , 2004, 54, 68-76.	1.9	15
54	Selective Catalytic Oxidation of Ammonia to Nitrogen on CuO-CeO ₂ Bimetallic Oxide Catalysts. <i>Aerosol and Air Quality Research</i> , 2006, 6, 150-169.	2.1	15

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55	Removal of Gaseous Ammonia in Pt-Rh Binary Catalytic Oxidation. <i>Aerosol and Air Quality Research</i> , 2012, 12, 583-591.	2.1	14
56	Impacts of microplastics on scleractinian corals nearshore Liuqiu Island southwestern Taiwan. <i>Environmental Pollution</i> , 2022, 306, 119371.	7.5	13
57	Synthesis, Reactivity, and Cytotoxicity Effect of Pt-Pd-Rh Nanocomposite Cordierite Catalyst during Oxidation of Ammonia Processes. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2011, 15, 37-41.	2.0	12
58	Fabrication, characterization, and evaluation of the cytotoxicity of platinum-rhodium nanocomposite materials for use in ammonia treatment. <i>Powder Technology</i> , 2011, 209, 29-34.	4.2	11
59	Complex PtPdRh nanoparticles: Synthesis, characterization, and performance in the electrocatalytic oxidation of ammonia. <i>Powder Technology</i> , 2012, 232, 18-23.	4.2	11
60	Selective Catalytic Reduction of NO by Methane on Copper Catalysts: the Effects of Modifying the Catalysts with Acids on γ -alumina. <i>Aerosol and Air Quality Research</i> , 2003, 3, 61-73.	2.1	10
61	Catalytic Decomposition of Ammonia over Bimetallic CuO/CeO ₂ Nanoparticle Catalyst. <i>Aerosol and Air Quality Research</i> , 2008, 8, 447-458.	2.1	10
62	Fe ₃ O ₄ Magnetic Nanoparticles: Characterization and Performance Exemplified by the Degradation of Methylene Blue in the Presence of Persulfate. <i>Journal of Advanced Oxidation Technologies</i> , 2016, 19, .	0.5	9
63	A poly-(L-serine)/reduced graphene oxide-Nafion supported on glassy carbon (PLS/rGO-Nafion/GCE) electrode for the detection of naproxen in aqueous solutions. <i>Environmental Science and Pollution Research</i> , 2022, 29, 12450-12461.	5.3	9
64	Preparing carbon-black-coated magnetite nanoparticles: fabrication, characterization, and heterogeneous persulfate oxidation of methylene blue. , 0, , 357-365.		9
65	Wet Air Oxidation of Aqueous Ammonia Solutions Catalyzed by Composite Metal Oxide. <i>Environmental Engineering Science</i> , 2003, 20, 547-556.	1.6	8
66	Effect of Calcination Temperature on Activity of Cu-ACF Catalysts in Catalytic Wet Oxidation of Ammonia Solution. <i>Environmental Engineering Science</i> , 2008, 25, 951-958.	1.6	8
67	Catalytic Wet Oxidation of Ammonia Solution: Activity of the Cu-La-Ce/Cordierite Composite Catalyst. <i>Environmental Engineering Science</i> , 2009, 26, 351-358.	1.6	8
68	Evaluating the leachable metals in Kaohsiung Harbor sediment using the toxicity characteristic leaching procedure (TCLP). <i>Desalination and Water Treatment</i> , 2015, 54, 1260-1269.	1.0	8
69	Catalytic Destruction of Dichloromethane Using Perovskite-Type Oxide Catalysts. <i>Journal of the Air and Waste Management Association</i> , 2004, 54, 727-740.	1.9	7
70	Preparation, physicochemical, and electrochemical properties of magnetite electrodes for methanol electrocatalytic oxidation in an alkaline medium. <i>Desalination and Water Treatment</i> , 2016, 57, 29404-29410.	1.0	7
71	Honeycomb Cordierite-Carriers Pt-Pd-Rh Ternary Composite for Ammonia Removal. <i>Aerosol and Air Quality Research</i> , 2010, 10, 119-124.	2.1	6
72	Wet air oxidation of aqueous ammonia solution catalyzed by bimetallic Pt/Rh nanoparticle catalysts. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2007, 30, 977-981.	1.1	5

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73	Material characterization and electrochemical performance of copper-based rare earth composite oxide electrodes for use in ammonia electrocatalytic oxidation. <i>Desalination and Water Treatment</i> , 2015, 54, 1054-1060.	1.0	5
74	Removal of ammonia from aqueous solutions by catalytic oxidation with copper-based rare earth composite metal materials: catalytic performance, characterization, and cytotoxicity evaluation. <i>Journal of Rare Earths</i> , 2011, 29, 632-637.	4.8	4
75	Production of Copper-Based Rare Earth Composite Metal Materials by Coprecipitation and Applications for Gaseous Ammonia Removal. <i>Journal of the Air and Waste Management Association</i> , 2011, 61, 453-460.	1.9	4
76	Treatment of Ammonia by Catalytic Wet Oxidation Process Over Platinum-Rhodium Bimetallic Catalyst in a Trickle-Bed Reactor: Effect of pH. <i>Water Environment Research</i> , 2010, 82, 686-695.	2.7	3
77	Preparation and characterization of nano-rare earth composite materials: application in selectivity catalytic oxidation of ammonia and its cytotoxicity study. <i>Journal of Rare Earths</i> , 2010, 28, 362-366.	4.8	3
78	Catalytic Performance and Characterization of Copper-based Rare Earth Composite Materials for Selective Catalytic Oxidation Reaction with Simulated Synthetic Ammonia Stream. <i>Journal of Advanced Oxidation Technologies</i> , 2014, 17, .	0.5	3
79	Preparation, Properties and Cytotoxicity Assessment of Nanosized Pt-Rh Composite Catalyst for the Decomposition of Gaseous Ammonia. <i>Advanced Materials Research</i> , 0, 160-162, 1285-1290.	0.3	2
80	Investigation of fluorescence characterization and electrochemical behavior on the catalysts of nanosized Pt-Rh/ γ -Al ₂ O ₃ to oxidize gaseous ammonia. <i>Frontiers of Environmental Science and Engineering</i> , 2013, 7, 428-434.	6.0	2
81	Development of a copper-lanthanum oxide catalyst for the removal of gaseous ammonia by catalytic oxidation: Physicochemical and electrochemical characterization of catalyst materials. <i>International Journal of Energy Research</i> , 2013, 37, n/a-n/a.	4.5	2
82	Removal of Polycyclic Aromatic Hydrocarbons from Sediments using Chemical Oxidation Processes. <i>Journal of Advanced Oxidation Technologies</i> , 2015, 18, .	0.5	2
83	Recent Advances in Carbon Dioxide Conversion: A Circular Bioeconomy Perspective. <i>Sustainability</i> , 2021, 13, 6962.	3.2	2
84	The Study of Catalytic Oxidation Ammonia Reactivity Using Bimetallic PtRh Particles as Catalyst: Electrocatalytic and Electrochemical Behavior. <i>Advanced Science Letters</i> , 2012, 8, 578-582.	0.2	2
85	Electrocatalysis Oxidation of Ammonia at PtPdRh Ternary Catalysts in an Acid Medium and Applied Fuel Cell Studies. <i>Applied Mechanics and Materials</i> , 0, 121-126, 2527-2531.	0.2	1
86	Synthesis, Structural and Electrochemical Characterization of Honeycomb Supported Pt-Pd-Rh Composite Catalyst for the Decomposition of Gaseous Ammonia to Nitrogen. <i>Advanced Materials Research</i> , 0, 214, 21-25.	0.3	1
87	Fabrication and Cytotoxicity Studies of the TiO ₂ /CuO Doped with Copper-Based Nanocomposite Particles. <i>Materials Science Forum</i> , 0, 695, 393-396.	0.3	1
88	Preparation, Performance, and Cytotoxicity Evaluation of Nanoarchitectures CuO/CeO ₂ Composite Catalysts for the Catalytic Decomposition of Ammonia. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2012, 16, 58-62.	2.0	1
89	Magnetic Nanoparticles and Their Heterogeneous Persulfate Oxidation Organic Compound Applications. <i>Springer Proceedings in Physics</i> , 2016, , 23-35.	0.2	1
90	Cu-ACF Composite Catalyst: Synthesis, Characterization, and Electrocatalytic Properties toward Ammonia Oxidation in Acid Solution. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2017, 21, 04016007.	2.0	1

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91	Study on the Properties and Cytotoxicity Assessment of Nanostructure Copper-Cerium Model Catalysts Prepared by Coprecipitation Approach. <i>Advanced Materials Research</i> , 0, 160-162, 1291-1296.	0.3	0
92	The Influence of Calcination Temperature and Cytotoxicity Assessment of Honeycomb Platinum-Containing Cordierite Nanocomposite Catalysts via Incipient Wetness Impregnation Process. <i>Applied Mechanics and Materials</i> , 0, 71-78, 945-949.	0.2	0
93	Application of Acid Modified CuO/Al ₂ O ₃ Nanostructured Catalysts and its Cytotoxicity Assessment for Enhanced CH ₄ -SCR Performance. <i>Materials Science Forum</i> , 2011, 695, 97-100.	0.3	0
94	Characterization and Cytotoxicity Studies of Mixed Cu-La-Ce Nanocomplexes Prepared by Coprecipitation Approach. <i>Applied Mechanics and Materials</i> , 0, 110-116, 527-533.	0.2	0
95	Preparation, Electrochemical Properties and Cytotoxicity Assessment of Nanosized CuO/La ₂ O ₃ /CeO ₂ Composite for the Decomposition of Gaseous Ammonia. <i>Materials Science Forum</i> , 0, 695, 53-56.	0.3	0
96	Synthesis of Platinum Particles Supported on Microporous Carbons for an Electrocatalysis Study of Ammonia and Cytotoxicity. <i>Journal of Advanced Oxidation Technologies</i> , 2014, 17, .	0.5	0