Wen-Da Oh

List of Publications by Year
in descending order

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89 papers	7,545 citations	71102 41 h-index	53230 85 g-index
89 all docs	89 docs citations	89 times ranked	5324 citing authors

#	Article	IF	Citations
1	Technical and environmental assessment of laboratory scale approach for sustainable management of marine plastic litter. Journal of Hazardous Materials, 2022, 421, 126717.	12.4	25
2	High temperature slagging gasification of municipal solid waste with biomass charcoal as a greener auxiliary fuel. Journal of Hazardous Materials, 2022, 423, 127057.	12.4	24
3	Activated multi-walled carbon nanotubes decorated with zero valent nickel nanoparticles for arsenic, cadmium and lead adsorption from wastewater in a batch and continuous flow modes. Journal of Hazardous Materials, 2022, 423, 126993.	12.4	96
4	Can biochar and hydrochar be used as sustainable catalyst for persulfate activation?. Chemosphere, 2022, 287, 132458.	8.2	47
5	Thermal behavior of Cu-Mg-Al-Ba/Sr bifunctional composites during chemical looping combustion and HCl adsorption of MSW syngas. Chemical Engineering Journal, 2022, 430, 132871.	12.7	8
6	A review on the application of perovskite as peroxymonosulfate activator for organic pollutants removal. Journal of Environmental Chemical Engineering, 2022, 10, 107093.	6.7	25
7	Multi-heteroatom-doped carbocatalyst as peroxymonosulfate and peroxydisulfate activator for water purification: A critical review. Journal of Hazardous Materials, 2022, 426, 128077.	12.4	53
8	Application of Biochar as Functional Material for Remediation of Organic Pollutants in Water: An Overview. Catalysts, 2022, 12, 210.	3.5	25
9	Upgrading waste plastic derived pyrolysis gas via chemical looping crackingâ€“gasification using Niâ€“Feâ€“Al redox catalysts. Chemical Engineering Journal, 2022, 438, 135580.	12.7	20
10	Tailoring Fe2O3â€“Al2O3 catalyst structure and activity via hydrothermal synthesis for carbon nanotubes and hydrogen production from polyolefin plastics. Chemosphere, 2022, 297, 134148.	8.2	14
11	Sorbents for high-temperature removal of alkali metals and HCl from municipal solid waste derived syngas. Fuel, 2022, 321, 124058.	6.4	4
12	Converting polyolefin plastics into few-walled carbon nanotubes via a tandem catalytic process: Importance of gas composition and system configuration. Journal of Hazardous Materials, 2022, 435, 128949.	12.4	17
13	Few-walled carbon nanotubes derived from shoe waste plastics: Effect of feedstock composition on synthesis, properties and application as CO2 reduction electrodes. Journal of Cleaner Production, 2022, 356, 131868.	9.3	13
14	Unravelling the significance of catalyst reduction stage for high tar reforming activity in the presence of syngas impurities. Applied Catalysis A: General, 2022, 642, 118711.	4.3	3
15	Promotional effect of Ca doping on Bi2Fe4O9 as peroxymonosulfate activator for gatifloxacin removal. Chemosphere, 2022, 307, 135619.	8.2	8
16	Baâ€“Al-decorated iron ore as bifunctional oxygen carrier and HCl sorbent for chemical looping combustion of syngas. Combustion and Flame, 2021, 223, 230-242.	5.2	26
17	Hydrogen bromide in syngas: Effects on tar reforming, water gas-shift activities and sintering of Ni-based catalysts. Applied Catalysis B: Environmental, 2021, 280, 119435.	20.2	9
18	Taguchi optimization design of diameter-controlled synthesis of multi walled carbon nanotubes for the adsorption of Pb(II) and Ni(II) from chemical industry wastewater. Chemosphere, 2021, 266, 128937.	8.2	83

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19	Effective H2S control during chemical looping combustion by iron ore modified with alkaline earth metal oxides. Energy, 2021, 218, 119548.	8.8	17
20	Iron ore modified with alkaline earth metals for the chemical looping combustion of municipal solid waste derived syngas. Journal of Cleaner Production, 2021, 282, 124467.	9.3	18
21	Dual-functional witherite in improving chemical looping performance of iron ore and simultaneous adsorption of HCl in syngas at high temperature. Chemical Engineering Journal, 2021, 413, 127538.	12.7	14
22	Weakening the strong Fe-La interaction in A-site-deficient perovskite via Ni substitution to promote the thermocatalytic synthesis of carbon nanotubes from plastics. Journal of Hazardous Materials, 2021, 403, 123642.	12.4	23
23	Copper ferrite anchored on hexagonal boron nitride as peroxymonosulfate activator for ciprofloxacin removal. Materials Letters, 2021, 285, 129079.	2.6	18
24	In situ catalytic reforming of plastic pyrolysis vapors using MSW incineration ashes. Environmental Pollution, 2021, 276, 116681.	7.5	22
25	Flexible packaging plastic waste â€“ environmental implications, management solutions, and the way forward. Current Opinion in Chemical Engineering, 2021, 32, 100684.	7.8	26
26	Multiwall carbon nanotubes derived from plastic packaging waste as a highâ€performance electrode material for supercapacitors. International Journal of Energy Research, 2021, 45, 19611-19622.	4.5	26
27	Accelerated organics degradation by peroxymonosulfate activated with biochar co-doped with nitrogen and sulfur. Chemosphere, 2021, 277, 130313.	8.2	43
28	Chemical looping combustion-adsorption of HCl-containing syngas using alkaline-earth coated iron ore composites for simultaneous purification and combustion enhancement. Chemical Engineering Journal, 2021, 417, 129226.	12.7	23
29	Environmental footprint of voltammetric sensors based on screen-printed electrodes: An assessment towards â€œgreenâ€•sensor manufacturing. Chemosphere, 2021, 278, 130462.	8.2	32
30	Systematic Performance Comparison of Fe3+/Fe0/Peroxymonosulfate and Fe3+/Fe0/Peroxydisulfate Systems for Organics Removal. Materials, 2021, 14, 5284.	2.9	1
31	Upcycling of exhausted reverse osmosis membranes into value-added pyrolysis products and carbon dots. Journal of Hazardous Materials, 2021, 419, 126472.	12.4	23
32	Surface construction of nitrogen-doped chitosan-derived carbon nanosheets with hierarchically porous structure for enhanced sulfacetamide degradation via peroxymonosulfate activation: Maneuverable porosity and active sites. Chemical Engineering Journal, 2020, 382, 122908.	12.7	65
33	Processing of flexible plastic packaging waste into pyrolysis oil and multi-walled carbon nanotubes for electrocatalytic oxygen reduction. Journal of Hazardous Materials, 2020, 387, 121256.	12.4	103
34	Rapid degradation of organics by peroxymonosulfate activated with ferric ions embedded in graphitic carbon nitride. Separation and Purification Technology, 2020, 230, 115852.	7.9	39
35	Facile synthesis of pure g-C3N4 materials for peroxymonosulfate activation to degrade bisphenol A: Effects of precursors and annealing ambience on catalytic oxidation. Chemical Engineering Journal, 2020, 387, 123726.	12.7	95
36	Barium aluminate improved iron ore for the chemical looping combustion of syngas. Applied Energy, 2020, 272, 115236.	10.1	29

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37	Highly active and poison-tolerant nickel catalysts for tar reforming synthesized through controlled hydrothermal synthesis. Applied Catalysis A: General, 2020, 607, 117779.	4.3	7
38	Enhanced activation of peroxydisulfate by CuO decorated on hexagonal boron nitride for bisphenol A removal. Chemical Engineering Journal, 2020, 393, 124714.	12.7	55
39	Carbon based copper(II) phthalocyanine catalysts for electrochemical CO2 reduction: Effect of carbon support on electrocatalytic activity. Carbon, 2020, 168, 245-253.	10.3	53
40	In situ nitrogen functionalization of biochar via one-pot synthesis for catalytic peroxymonosulfate activation: Characteristics and performance studies. Separation and Purification Technology, 2020, 241, 116702.	7.9	81
41	Analytical assessment of tar generated during gasification of municipal solid waste: Distribution of GCâ€“MS detectable tar compounds, undetectable tar residues and inorganic impurities. Fuel, 2020, 268, 117348.	6.4	29
42	Cobalt and nitrogen co-doped porous carbon/carbon nanotube hybrids anchored with nickel nanoparticles as high-performance electrocatalysts for oxygen reduction reactions. Nanoscale, 2020, 12, 13028-13033.	5.6	29
43	Nonradical transformation of sulfamethoxazole by carbon nanotube activated peroxydisulfate: Kinetics, mechanism and product toxicity. Chemical Engineering Journal, 2019, 378, 122147.	12.7	62
44	Thermodynamic analyses of synthetic natural gas production via municipal solid waste gasification, high-temperature water electrolysis and methanation. Energy Conversion and Management, 2019, 202, 112160.	9.2	46
45	A hot syngas purification system integrated with downdraft gasification of municipal solid waste. Applied Energy, 2019, 237, 227-240.	10.1	76
46	Catalytically active nitrogen-doped porous carbon derived from biowastes for organics removal via peroxymonosulfate activation. Chemical Engineering Journal, 2019, 374, 947-957.	12.7	82
47	Insights into nitrogen and boron-co-doped graphene toward high-performance peroxymonosulfate activation: Maneuverable N-B bonding configurations and oxidation pathways. Applied Catalysis B: Environmental, 2019, 253, 419-432.	20.2	163
48	Plastic derived carbon nanotubes for electrocatalytic oxygen reduction reaction: Effects of plastic feedstock and synthesis temperature. Electrochemistry Communications, 2019, 101, 11-18.	4.7	59
49	Elucidation of stoichiometric efficiency, radical generation and transformation pathway during catalytic oxidation of sulfamethoxazole via peroxymonosulfate activation. Water Research, 2019, 151, 64-74.	11.3	148
50	Insights into the single and binary adsorption of copper(II) and nickel(II) on hexagonal boron nitride: Performance and mechanistic studies. Journal of Environmental Chemical Engineering, 2019, 7, 102872.	6.7	24
51	A novel real-time monitoring and control system for waste-to-energy gasification process employing differential temperature profiling of a downdraft gasifier. Journal of Environmental Management, 2019, 234, 65-74.	7.8	20
52	Poisoning effects of H2S and HCl on the naphthalene steam reforming and water-gas shift activities of Ni and Fe catalysts. Fuel, 2019, 241, 1008-1018.	6.4	54
53	Palatability of black soldier fly larvae in valorizing mixed waste coconut endosperm and soybean curd residue into larval lipid and protein sources. Journal of Environmental Management, 2019, 231, 129-136.	7.8	56
54	Design and application of heterogeneous catalysts as peroxydisulfate activator for organics removal: An overview. Chemical Engineering Journal, 2019, 358, 110-133.	12.7	248

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55	A comprehensive performance evaluation of heterogeneous Bi2Fe4O9/peroxymonosulfate system for sulfamethoxazole degradation. Environmental Science and Pollution Research, 2019, 26, 1026-1035.	5.3	27
56	Insights into the thermolytic transformation of lignocellulosic biomass waste to redox-active carbocatalyst: Durability of surface active sites. Applied Catalysis B: Environmental, 2018, 233, 120-129.	20.2	169
57	Catalytic activities and resistance to HCl poisoning of Ni-based catalysts during steam reforming of naphthalene. Applied Catalysis A: General, 2018, 557, 25-38.	4.3	29
58	Influence of surface morphology on the performance of nanostructured ZnO-loaded ceramic honeycomb for syngas desulfurization. Fuel, 2018, 211, 591-599.	6.4	35
59	Enhanced photocatalytic degradation of bisphenol A with Ag-decorated S-doped g-C3N4 under solar irradiation: Performance and mechanistic studies. Chemical Engineering Journal, 2018, 333, 739-749.	12.7	209
60	Bioregeneration of spent activated carbon: Review of key factors and recent mathematical models of kinetics. Chinese Journal of Chemical Engineering, 2018, 26, 893-902.	3.5	15
61	Controllable mullite bismuth ferrite micro/nanostructures with multifarious catalytic activities for switchable/hybrid catalytic degradation processes. Journal of Colloid and Interface Science, 2018, 509, 502-514.	9.4	20
62	Enhancing sulfacetamide degradation by peroxymonosulfate activation with N-doped graphene produced through delicately-controlled nitrogen functionalization via tweaking thermal annealing processes. Applied Catalysis B: Environmental, 2018, 225, 243-257.	20.2	416
63	Upgrading of non-condensable pyrolysis gas from mixed plastics through catalytic decomposition and dechlorination. Fuel Processing Technology, 2018, 170, 13-20.	7.2	59
64	Shielding immobilized biomass cryogel beads with powdered activated carbon for the simultaneous adsorption and biodegradation of 4-chlorophenol. Journal of Cleaner Production, 2018, 205, 828-835.	9.3	31
65	Nanocarbons as platforms for developing novel catalytic composites: overview and prospects. Applied Catalysis A: General, 2018, 562, 94-105.	4.3	40
66	Mechanistic kinetic models describing impact of early attachment between Chlorella vulgaris and polyurethane foam material in fluidized bed bioreactor on lipid for biodiesel production. Algal Research, 2018, 33, 209-217.	4.6	31
67	Catalytic processing of non-condensable pyrolysis gas from plastics: Effects of calcium supports on nickel-catalyzed decomposition of hydrocarbons and HCl sorption. Chemical Engineering Science, 2018, 189, 311-319.	3.8	32
68	Surface-nucleated heterogeneous growth of zeolitic imidazolate framework â€“ A unique precursor towards catalytic ceramic membranes: Synthesis, characterization and organics degradation. Chemical Engineering Journal, 2018, 353, 69-79.	12.7	81
69	Graphene- and CNTs-based carbocatalysts in persulfates activation: Material design and catalytic mechanisms. Chemical Engineering Journal, 2018, 354, 941-976.	12.7	448
70	High-sulfur capacity and regenerable Zn-based sorbents derived from layered double hydroxide for hot coal gas desulfurization. Journal of Hazardous Materials, 2018, 360, 391-401.	12.4	33
71	Ni-Zn-based nanocomposite loaded on cordierite mullite ceramic for syngas desulfurization: Performance evaluation and regeneration studies. Chemical Engineering Journal, 2018, 351, 230-239.	12.7	36
72	Hierarchically-structured Coâ€“CuBi 2 O 4 and Cuâ€“CuBi 2 O 4 for sulfanilamide removal via peroxymonosulfate activation. Catalysis Today, 2017, 280, 2-7.	4.4	44

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73	Conversion of non-condensable pyrolysis gases from plastics into carbon nanomaterials: Effects of feedstock and temperature. Journal of Analytical and Applied Pyrolysis, 2017, 124, 16-24.	5.5	64
74	Enhancing the catalytic activity of g-C 3 N 4 through Me doping (Me = Cu, Co and Fe) for selective sulfathiazole degradation via redox-based advanced oxidation process. Chemical Engineering Journal, 2017, 323, 260-269.	12.7	243
75	Surfaceâ€“active bismuth ferrite as superior peroxymonosulfate activator for aqueous sulfamethoxazole removal: Performance, mechanism and quantification of sulfate radical. Journal of Hazardous Materials, 2017, 325, 71-81.	12.4	193
76	Comprehensive characterisation of sewage sludge for thermochemical conversion processes â€“ Based on Singapore survey. Waste Management, 2016, 54, 131-142.	7.4	53
77	Generation of sulfate radical through heterogeneous catalysis for organic contaminants removal: Current development, challenges and prospects. Applied Catalysis B: Environmental, 2016, 194, 169-201.	20.2	1,966
78	Recent progress in 2D or 3D N-doped graphene synthesis and the characterizations, properties, and modulations of N species. Journal of Materials Science, 2016, 51, 10323-10349.	3.7	77
79	Rational design of hierarchically-structured CuBi₂O₄ composites by deliberate manipulation of the nucleation and growth kinetics of CuBi₂O₄ for environmental applications. Nanoscale, 2016, 8, 2046-2054.	5.6	51
80	Bioregeneration of granular activated carbon loaded with binary mixture of phenol and 4-chlorophenol. Desalination and Water Treatment, 2016, 57, 20476-20482.	1.0	6
81	A molybdovanadophosphate-based surfactant encapsulated heteropolyanion with multi-lamellar nano-structure for catalytic wet air oxidation of organic pollutants under ambient conditions. RSC Advances, 2015, 5, 94743-94751.	3.6	2
82	A novel three-dimensional spherical CuBi₂O₄ consisting of nanocolumn arrays with persulfate and peroxymonosulfate activation functionalities for 1H-benzotriazole removal. Nanoscale, 2015, 7, 8149-8158.	5.6	104
83	A novel quasi-cubic CuFe₂O₄â€“Fe₂O₃ catalyst prepared at low temperature for enhanced oxidation of bisphenol A via peroxymonosulfate activation. Journal of Materials Chemistry A, 2015, 3, 22208-22217.	10.3	169
84	Performance of magnetic activated carbon composite as peroxymonosulfate activator and regenerable adsorbent via sulfate radical-mediated oxidation processes. Journal of Hazardous Materials, 2015, 284, 1-9.	12.4	158
85	Low-temperature synthesis of graphene/Bi2Fe4O9 composite for synergistic adsorption-photocatalytic degradation of hydrophobic pollutant under solar irradiation. Chemical Engineering Journal, 2015, 262, 1022-1032.	12.7	106
86	High surface area DPA-hematite for efficient detoxification of bisphenol A via peroxymonosulfate activation. Journal of Materials Chemistry A, 2014, 2, 15836-15845.	10.3	122
87	Effect of initial biomass concentration on bioregeneration of 4â€chlorophenolâ€loaded granular activated carbon: kinetic and efficiency studies. Journal of Chemical Technology and Biotechnology, 2013, 88, 1157-1163.	3.2	7
88	Kinetic modeling of bioregeneration of chlorophenol-loaded granular activated carbon in simultaneous adsorption and biodegradation processes. Bioresource Technology, 2012, 114, 179-187.	9.6	17
89	Bioregeneration of granular activated carbon in simultaneous adsorption and biodegradation of chlorophenols. Bioresource Technology, 2011, 102, 9497-9502.	9.6	43