

Wen-Da Oh

List of Publications by Year in descending order

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89
papers

7,545
citations

81434

41
h-index

60403

85
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89
all docs

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docs citations

89
times ranked

5898
citing authors

#	ARTICLE	IF	CITATIONS
1	Technical and environmental assessment of laboratory scale approach for sustainable management of marine plastic litter. <i>Journal of Hazardous Materials</i> , 2022, 421, 126717.	6.5	25
2	High temperature slagging gasification of municipal solid waste with biomass charcoal as a greener auxiliary fuel. <i>Journal of Hazardous Materials</i> , 2022, 423, 127057.	6.5	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. <i>Journal of Hazardous Materials</i> , 2022, 423, 126993.	6.5	96
4	Can biochar and hydrochar be used as sustainable catalyst for persulfate activation?. <i>Chemosphere</i> , 2022, 287, 132458.	4.2	47
5	Thermal behavior of Cu-Mg-Al-Ba/Sr bifunctional composites during chemical looping combustion and HCl adsorption of MSW syngas. <i>Chemical Engineering Journal</i> , 2022, 430, 132871.	6.6	8
6	A review on the application of perovskite as peroxymonosulfate activator for organic pollutants removal. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107093.	3.3	25
7	Multi-heteroatom-doped carbocatalyst as peroxymonosulfate and peroxydisulfate activator for water purification: A critical review. <i>Journal of Hazardous Materials</i> , 2022, 426, 128077.	6.5	53
8	Application of Biochar as Functional Material for Remediation of Organic Pollutants in Water: An Overview. <i>Catalysts</i> , 2022, 12, 210.	1.6	25
9	Upgrading waste plastic derived pyrolysis gas via chemical looping cracking-gasification using Ni-Fe-Al redox catalysts. <i>Chemical Engineering Journal</i> , 2022, 438, 135580.	6.6	20
10	Tailoring Fe ₂ O ₃ -Al ₂ O ₃ catalyst structure and activity via hydrothermal synthesis for carbon nanotubes and hydrogen production from polyolefin plastics. <i>Chemosphere</i> , 2022, 297, 134148.	4.2	14
11	Sorbents for high-temperature removal of alkali metals and HCl from municipal solid waste derived syngas. <i>Fuel</i> , 2022, 321, 124058.	3.4	4
12	Converting polyolefin plastics into few-walled carbon nanotubes via a tandem catalytic process: Importance of gas composition and system configuration. <i>Journal of Hazardous Materials</i> , 2022, 435, 128949.	6.5	17
13	Few-walled carbon nanotubes derived from shoe waste plastics: Effect of feedstock composition on synthesis, properties and application as CO ₂ reduction electrodes. <i>Journal of Cleaner Production</i> , 2022, 356, 131868.	4.6	13
14	Unravelling the significance of catalyst reduction stage for high tar reforming activity in the presence of syngas impurities. <i>Applied Catalysis A: General</i> , 2022, 642, 118711.	2.2	3
15	Promotional effect of Ca doping on Bi ₂ Fe ₄ O ₉ as peroxymonosulfate activator for gatifloxacin removal. <i>Chemosphere</i> , 2022, 307, 135619.	4.2	8
16	Ba-Al-decorated iron ore as bifunctional oxygen carrier and HCl sorbent for chemical looping combustion of syngas. <i>Combustion and Flame</i> , 2021, 223, 230-242.	2.8	26
17	Hydrogen bromide in syngas: Effects on tar reforming, water gas-shift activities and sintering of Ni-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119435.	10.8	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. <i>Chemosphere</i> , 2021, 266, 128937.	4.2	83

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19	Effective H ₂ S control during chemical looping combustion by iron ore modified with alkaline earth metal oxides. <i>Energy</i> , 2021, 218, 119548.	4.5	17
20	Iron ore modified with alkaline earth metals for the chemical looping combustion of municipal solid waste derived syngas. <i>Journal of Cleaner Production</i> , 2021, 282, 124467.	4.6	18
21	Dual-functional witherite in improving chemical looping performance of iron ore and simultaneous adsorption of HCl in syngas at high temperature. <i>Chemical Engineering Journal</i> , 2021, 413, 127538.	6.6	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. <i>Journal of Hazardous Materials</i> , 2021, 403, 123642.	6.5	23
23	Copper ferrite anchored on hexagonal boron nitride as peroxymonosulfate activator for ciprofloxacin removal. <i>Materials Letters</i> , 2021, 285, 129079.	1.3	18
24	In situ catalytic reforming of plastic pyrolysis vapors using MSW incineration ashes. <i>Environmental Pollution</i> , 2021, 276, 116681.	3.7	22
25	Flexible packaging plastic waste – environmental implications, management solutions, and the way forward. <i>Current Opinion in Chemical Engineering</i> , 2021, 32, 100684.	3.8	26
26	Multiwall carbon nanotubes derived from plastic packaging waste as a high-performance electrode material for supercapacitors. <i>International Journal of Energy Research</i> , 2021, 45, 19611-19622.	2.2	26
27	Accelerated organics degradation by peroxymonosulfate activated with biochar co-doped with nitrogen and sulfur. <i>Chemosphere</i> , 2021, 277, 130313.	4.2	43
28	Chemical looping combustion-adsorption of HCl-containing syngas using alkaline-earth coated iron ore composites for simultaneous purification and combustion enhancement. <i>Chemical Engineering Journal</i> , 2021, 417, 129226.	6.6	23
29	Environmental footprint of voltammetric sensors based on screen-printed electrodes: An assessment towards “green”-sensor manufacturing. <i>Chemosphere</i> , 2021, 278, 130462.	4.2	32
30	Systematic Performance Comparison of Fe ₃ +/FeO/Peroxymonosulfate and Fe ₃ +/FeO/Peroxydisulfate Systems for Organics Removal. <i>Materials</i> , 2021, 14, 5284.	1.3	1
31	Upcycling of exhausted reverse osmosis membranes into value-added pyrolysis products and carbon dots. <i>Journal of Hazardous Materials</i> , 2021, 419, 126472.	6.5	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. <i>Chemical Engineering Journal</i> , 2020, 382, 122908.	6.6	65
33	Processing of flexible plastic packaging waste into pyrolysis oil and multi-walled carbon nanotubes for electrocatalytic oxygen reduction. <i>Journal of Hazardous Materials</i> , 2020, 387, 121256.	6.5	103
34	Rapid degradation of organics by peroxymonosulfate activated with ferric ions embedded in graphitic carbon nitride. <i>Separation and Purification Technology</i> , 2020, 230, 115852.	3.9	39
35	Facile synthesis of pure g-C ₃ N ₄ materials for peroxymonosulfate activation to degrade bisphenol A: Effects of precursors and annealing ambience on catalytic oxidation. <i>Chemical Engineering Journal</i> , 2020, 387, 123726.	6.6	95
36	Barium aluminate improved iron ore for the chemical looping combustion of syngas. <i>Applied Energy</i> , 2020, 272, 115236.	5.1	29

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37	Highly active and poison-tolerant nickel catalysts for tar reforming synthesized through controlled hydrothermal synthesis. <i>Applied Catalysis A: General</i> , 2020, 607, 117779.	2.2	7
38	Enhanced activation of peroxydisulfate by CuO decorated on hexagonal boron nitride for bisphenol A removal. <i>Chemical Engineering Journal</i> , 2020, 393, 124714.	6.6	55
39	Carbon based copper(II) phthalocyanine catalysts for electrochemical CO ₂ reduction: Effect of carbon support on electrocatalytic activity. <i>Carbon</i> , 2020, 168, 245-253.	5.4	53
40	In situ nitrogen functionalization of biochar via one-pot synthesis for catalytic peroxymonosulfate activation: Characteristics and performance studies. <i>Separation and Purification Technology</i> , 2020, 241, 116702.	3.9	81
41	Analytical assessment of tar generated during gasification of municipal solid waste: Distribution of GC&MS detectable tar compounds, undetectable tar residues and inorganic impurities. <i>Fuel</i> , 2020, 268, 117348.	3.4	29
42	Cobalt and nitrogen co-doped porous carbon/carbon nanotube hybrids anchored with nickel nanoparticles as high-performance electrocatalysts for oxygen reduction reactions. <i>Nanoscale</i> , 2020, 12, 13028-13033.	2.8	29
43	Nonradical transformation of sulfamethoxazole by carbon nanotube activated peroxydisulfate: Kinetics, mechanism and product toxicity. <i>Chemical Engineering Journal</i> , 2019, 378, 122147.	6.6	62
44	Thermodynamic analyses of synthetic natural gas production via municipal solid waste gasification, high-temperature water electrolysis and methanation. <i>Energy Conversion and Management</i> , 2019, 202, 112160.	4.4	46
45	A hot syngas purification system integrated with downdraft gasification of municipal solid waste. <i>Applied Energy</i> , 2019, 237, 227-240.	5.1	76
46	Catalytically active nitrogen-doped porous carbon derived from biowastes for organics removal via peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2019, 374, 947-957.	6.6	82
47	Insights into nitrogen and boron-co-doped graphene toward high-performance peroxymonosulfate activation: Maneuverable N-B bonding configurations and oxidation pathways. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 419-432.	10.8	163
48	Plastic derived carbon nanotubes for electrocatalytic oxygen reduction reaction: Effects of plastic feedstock and synthesis temperature. <i>Electrochemistry Communications</i> , 2019, 101, 11-18.	2.3	59
49	Elucidation of stoichiometric efficiency, radical generation and transformation pathway during catalytic oxidation of sulfamethoxazole via peroxymonosulfate activation. <i>Water Research</i> , 2019, 151, 64-74.	5.3	148
50	Insights into the single and binary adsorption of copper(II) and nickel(II) on hexagonal boron nitride: Performance and mechanistic studies. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102872.	3.3	24
51	A novel real-time monitoring and control system for waste-to-energy gasification process employing differential temperature profiling of a downdraft gasifier. <i>Journal of Environmental Management</i> , 2019, 234, 65-74.	3.8	20
52	Poisoning effects of H ₂ S and HCl on the naphthalene steam reforming and water-gas shift activities of Ni and Fe catalysts. <i>Fuel</i> , 2019, 241, 1008-1018.	3.4	54
53	Palatability of black soldier fly larvae in valorizing mixed waste coconut endosperm and soybean curd residue into larval lipid and protein sources. <i>Journal of Environmental Management</i> , 2019, 231, 129-136.	3.8	56
54	Design and application of heterogeneous catalysts as peroxydisulfate activator for organics removal: An overview. <i>Chemical Engineering Journal</i> , 2019, 358, 110-133.	6.6	248

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55	A comprehensive performance evaluation of heterogeneous Bi ₂ Fe ₄ O ₉ /peroxymonosulfate system for sulfamethoxazole degradation. <i>Environmental Science and Pollution Research</i> , 2019, 26, 1026-1035.	2.7	27
56	Insights into the thermolytic transformation of lignocellulosic biomass waste to redox-active carbocatalyst: Durability of surface active sites. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 120-129.	10.8	169
57	Catalytic activities and resistance to HCl poisoning of Ni-based catalysts during steam reforming of naphthalene. <i>Applied Catalysis A: General</i> , 2018, 557, 25-38.	2.2	29
58	Influence of surface morphology on the performance of nanostructured ZnO-loaded ceramic honeycomb for syngas desulfurization. <i>Fuel</i> , 2018, 211, 591-599.	3.4	35
59	Enhanced photocatalytic degradation of bisphenol A with Ag-decorated S-doped g-C ₃ N ₄ under solar irradiation: Performance and mechanistic studies. <i>Chemical Engineering Journal</i> , 2018, 333, 739-749.	6.6	209
60	Bioregeneration of spent activated carbon: Review of key factors and recent mathematical models of kinetics. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 893-902.	1.7	15
61	Controllable mullite bismuth ferrite micro/nanostructures with multifarious catalytic activities for switchable/hybrid catalytic degradation processes. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 502-514.	5.0	20
62	Enhancing sulfacetamide degradation by peroxymonosulfate activation with N-doped graphene produced through delicately-controlled nitrogen functionalization via tweaking thermal annealing processes. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 243-257.	10.8	416
63	Upgrading of non-condensable pyrolysis gas from mixed plastics through catalytic decomposition and dechlorination. <i>Fuel Processing Technology</i> , 2018, 170, 13-20.	3.7	59
64	Shielding immobilized biomass cryogel beads with powdered activated carbon for the simultaneous adsorption and biodegradation of 4-chlorophenol. <i>Journal of Cleaner Production</i> , 2018, 205, 828-835.	4.6	31
65	Nanocarbons as platforms for developing novel catalytic composites: overview and prospects. <i>Applied Catalysis A: General</i> , 2018, 562, 94-105.	2.2	40
66	Mechanistic kinetic models describing impact of early attachment between <i>Chlorella vulgaris</i> and polyurethane foam material in fluidized bed bioreactor on lipid for biodiesel production. <i>Algal Research</i> , 2018, 33, 209-217.	2.4	31
67	Catalytic processing of non-condensable pyrolysis gas from plastics: Effects of calcium supports on nickel-catalyzed decomposition of hydrocarbons and HCl sorption. <i>Chemical Engineering Science</i> , 2018, 189, 311-319.	1.9	32
68	Surface-nucleated heterogeneous growth of zeolitic imidazolate framework "A unique precursor towards catalytic ceramic membranes: Synthesis, characterization and organics degradation. <i>Chemical Engineering Journal</i> , 2018, 353, 69-79.	6.6	81
69	Graphene- and CNTs-based carbocatalysts in persulfates activation: Material design and catalytic mechanisms. <i>Chemical Engineering Journal</i> , 2018, 354, 941-976.	6.6	448
70	High-sulfur capacity and regenerable Zn-based sorbents derived from layered double hydroxide for hot coal gas desulfurization. <i>Journal of Hazardous Materials</i> , 2018, 360, 391-401.	6.5	33
71	Ni-Zn-based nanocomposite loaded on cordierite mullite ceramic for syngas desulfurization: Performance evaluation and regeneration studies. <i>Chemical Engineering Journal</i> , 2018, 351, 230-239.	6.6	36
72	Hierarchically-structured Co-CuBi ₂ O ₄ and Cu-CuBi ₂ O ₄ for sulfanilamide removal via peroxymonosulfate activation. <i>Catalysis Today</i> , 2017, 280, 2-7.	2.2	44

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73	Conversion of non-condensable pyrolysis gases from plastics into carbon nanomaterials: Effects of feedstock and temperature. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 124, 16-24.	2.6	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. <i>Chemical Engineering Journal</i> , 2017, 323, 260-269.	6.6	243
75	Surface- α -active bismuth ferrite as superior peroxymonosulfate activator for aqueous sulfamethoxazole removal: Performance, mechanism and quantification of sulfate radical. <i>Journal of Hazardous Materials</i> , 2017, 325, 71-81.	6.5	193
76	Comprehensive characterisation of sewage sludge for thermochemical conversion processes α -Based on Singapore survey. <i>Waste Management</i> , 2016, 54, 131-142.	3.7	53
77	Generation of sulfate radical through heterogeneous catalysis for organic contaminants removal: Current development, challenges and prospects. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 169-201.	10.8	1,966
78	Recent progress in 2D or 3D N-doped graphene synthesis and the characterizations, properties, and modulations of N species. <i>Journal of Materials Science</i> , 2016, 51, 10323-10349.	1.7	77
79	Rational design of hierarchically-structured CuBi ₂ O ₄ composites by deliberate manipulation of the nucleation and growth kinetics of CuBi ₂ O ₄ for environmental applications. <i>Nanoscale</i> , 2016, 8, 2046-2054.	2.8	51
80	Bioregeneration of granular activated carbon loaded with binary mixture of phenol and 4-chlorophenol. <i>Desalination and Water Treatment</i> , 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. <i>RSC Advances</i> , 2015, 5, 94743-94751.	1.7	2
82	A novel three-dimensional spherical CuBi ₂ O ₄ consisting of nanocolumn arrays with persulfate and peroxymonosulfate activation functionalities for 1H-benzotriazole removal. <i>Nanoscale</i> , 2015, 7, 8149-8158.	2.8	104
83	A novel quasi-cubic CuFe ₂ O ₄ α -Fe ₂ O ₃ catalyst prepared at low temperature for enhanced oxidation of bisphenol A via peroxymonosulfate activation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 22208-22217.	5.2	169
84	Performance of magnetic activated carbon composite as peroxymonosulfate activator and regenerable adsorbent via sulfate radical-mediated oxidation processes. <i>Journal of Hazardous Materials</i> , 2015, 284, 1-9.	6.5	158
85	Low-temperature synthesis of graphene/Bi ₂ Fe ₄ O ₉ composite for synergistic adsorption-photocatalytic degradation of hydrophobic pollutant under solar irradiation. <i>Chemical Engineering Journal</i> , 2015, 262, 1022-1032.	6.6	106
86	High surface area DPA-hematite for efficient detoxification of bisphenol A via peroxymonosulfate activation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15836-15845.	5.2	122
87	Effect of initial biomass concentration on bioregeneration of 4-chlorophenol-loaded granular activated carbon: kinetic and efficiency studies. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1157-1163.	1.6	7
88	Kinetic modeling of bioregeneration of chlorophenol-loaded granular activated carbon in simultaneous adsorption and biodegradation processes. <i>Bioresource Technology</i> , 2012, 114, 179-187.	4.8	17
89	Bioregeneration of granular activated carbon in simultaneous adsorption and biodegradation of chlorophenols. <i>Bioresource Technology</i> , 2011, 102, 9497-9502.	4.8	43