Yanbo Zhou

List of Publications by Year
in descending order

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86 papers	5,270 citations	94433 37 h-index	85541 71 g-index
86 all docs	86 docs citations	86 times ranked	4398 citing authors

#	Article	IF	Citations
1	Recent advances for dyes removal using novel adsorbents: A review. Environmental Pollution, 2019, 252, 352-365.	7.5	791
2	Removal of heavy metals from aqueous solution using carbon-based adsorbents: A review. Journal of Water Process Engineering, 2020, 37, 101339.	5.6	258
3	Superior adsorption capacity of functionalised straw adsorbent for dyes and heavy-metal ions. Journal of Hazardous Materials, 2020, 382, 121040.	12.4	254
4	Novel cyclodextrin-based adsorbents for removing pollutants from wastewater: A critical review. Chemosphere, 2020, 241, 125043.	8.2	190
5	Ultrathin g-C3N4 nanosheet with hierarchical pores and desirable energy band for highly efficient H2O2 production. Applied Catalysis B: Environmental, 2020, 267, 118396.	20.2	183
6	Efficiently activate peroxymonosulfate by Fe3O4@MoS2 for rapid degradation of sulfonamides. Chemical Engineering Journal, 2021, 422, 130126.	12.7	177
7	Citric acid-crosslinked Î²-cyclodextrin for simultaneous removal of bisphenol A, methylene blue and copper: The roles of cavity and surface functional groups. Journal of the Taiwan Institute of Chemical Engineers, 2018, 82, 189-197.	5.3	169
8	A novel amphoteric Î²-cyclodextrin-based adsorbent for simultaneous removal of cationic/anionic dyes and bisphenol A. Chemical Engineering Journal, 2018, 341, 47-57.	12.7	167
9	Removal of antibiotic resistance genes and control of horizontal transfer risk by UV, chlorination and UV/chlorination treatments of drinking water. Chemical Engineering Journal, 2019, 358, 589-597.	12.7	150
10	Polydopamine modified cyclodextrin polymer as efficient adsorbent for removing cationic dyes and Cu2+. Journal of Hazardous Materials, 2020, 389, 121897.	12.4	144
11	Isotherm models for adsorption of heavy metals from water - A review. Chemosphere, 2022, 307, 135545.	8.2	144
12	Peroxydisulfate activation by positively polarized carbocatalyst for enhanced removal of aqueous organic pollutants. Water Research, 2019, 166, 115043.	11.3	137
13	Removal of organic pollutants from aqueous solution using metal organic frameworks (MOFs)-based adsorbents: A review. Chemosphere, 2021, 284, 131393.	8.2	131
14	Adsorptive removal of bisphenol A, chloroxylenol, and carbamazepine from water using a novel Î²-cyclodextrin polymer. Ecotoxicology and Environmental Safety, 2019, 170, 278-285.	6.0	120
15	Metalâ€“organic frameworks derived C/TiO2 for visible light photocatalysis: Simple synthesis and contribution of carbon species. Journal of Hazardous Materials, 2021, 403, 124048.	12.4	105
16	0D/2D plasmonic Cu2-xS/g-C3N4 nanosheets harnessing UV-vis-NIR broad spectrum for photocatalytic degradation of antibiotic pollutant. Applied Catalysis B: Environmental, 2020, 263, 118326.	20.2	100
17	Recent advancements in graphene adsorbents for wastewater treatment: Current status and challenges. Chinese Chemical Letters, 2020, 31, 2525-2538.	9.0	98
18	Z-scheme photo-Fenton system for efficiency synchronous oxidation of organic contaminants and reduction of metal ions. Applied Catalysis B: Environmental, 2020, 279, 119365.	20.2	97

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19	Simultaneous Removal of NO and SO₂ from Flue Gas by Ozone Oxidation and NaOH Absorption. Industrial & Engineering Chemistry Research, 2014, 53, 6450-6456.	3.7	91
20	Enhanced removal of bisphenol A by cyclodextrin in photocatalytic systems: Degradation intermediates and toxicity evaluation. Chinese Chemical Letters, 2020, 31, 2623-2626.	9.0	84
21	Removal of Aniline from Aqueous Solution using Pine Sawdust Modified with Citric Acid and Î²-Cyclodextrin. Industrial & Engineering Chemistry Research, 2014, 53, 887-894.	3.7	80
22	Dramatic enhancement effects of l-cysteine on the degradation of sulfadiazine in Fe3+/CaO2 system. Journal of Hazardous Materials, 2020, 383, 121133.	12.4	76
23	Fe3O4/graphene aerogels: A stable and efficient persulfate activator for the rapid degradation of malachite green. Chemosphere, 2020, 251, 126402.	8.2	74
24	Application of natural biosorbent and modified peat for bisphenol a removal from aqueous solutions. Carbohydrate Polymers, 2012, 88, 502-508.	10.2	68
25	High-efficiency adsorption of tetracycline by cooperation of carbon and iron in a magnetic Fe/porous carbon hybrid with effective Fenton regeneration. Applied Surface Science, 2021, 538, 147813.	6.1	67
26	Risk assessment of antibiotic resistance genes in the drinking water system. Science of the Total Environment, 2021, 800, 149650.	8.0	67
27	Degradation of sulfanilamide by Fenton-like reaction and optimization using response surface methodology. Ecotoxicology and Environmental Safety, 2019, 172, 334-340.	6.0	65
28	Removal of bisphenol A from aqueous solution using modified fibric peat as a novel biosorbent. Separation and Purification Technology, 2011, 81, 184-190.	7.9	64
29	Chelating agents enhanced CaO2 oxidation of bisphenol A catalyzed by Fe3+ and reuse of ferric sludge as a source of catalyst. Chemical Engineering Journal, 2017, 313, 638-645.	12.7	63
30	Adsorption of Divalent Heavy Metal Ions from Aqueous Solution by Citric Acid Modified Pine Sawdust. Separation Science and Technology, 2015, 50, 245-252.	2.5	54
31	Adsorptive removal of PPCPs from aqueous solution using carbon-based composites: A review. Chinese Chemical Letters, 2022, 33, 3585-3593.	9.0	53
32	The effects and mechanisms of zero-valent iron on anaerobic digestion of solid waste: A mini-review. Journal of Cleaner Production, 2021, 278, 123567.	9.3	52
33	Cyclodextrin modified filter paper for removal of cationic dyes/Cu ions from aqueous solutions. Water Science and Technology, 2018, 78, 2553-2563.	2.5	51
34	Modified Resin Coalescer for Oil-in-Water Emulsion Treatment: Effect of Operating Conditions on Oil Removal Performance. Industrial & Engineering Chemistry Research, 2009, 48, 1660-1664.	3.7	44
35	Enhanced activation of PMS by a novel Fenton-like composite Fe3O4/S-WO3 for rapid chloroxylenol degradation. Chemical Engineering Journal, 2022, 446, 137067.	12.7	44
36	Enhanced adsorption and photo-degradation of bisphenol A by Î²-cyclodextrin modified pine sawdust in an aquatic environment. Journal of the Taiwan Institute of Chemical Engineers, 2017, 78, 510-516.	5.3	42

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37	Influences of Various Cyclodextrins on the Photodegradation of Phenol and Bisphenol A under UV Light. Industrial & Engineering Chemistry Research, 2015, 54, 426-433.	3.7	40
38	In-situ production and activation of H2O2 for enhanced degradation of roxarsone by FeS2 decorated resorcinol-formaldehyde resins. Journal of Hazardous Materials, 2022, 424, 127650.	12.4	38
39	A novel hollow-sphere cyclodextrin nanoreactor for the enhanced removal of bisphenol A under visible irradiation. Journal of Hazardous Materials, 2020, 384, 121267.	12.4	37
40	Competitive Adsorption of Methylene Blue and Cu²⁺ onto Citric Acid Modified Pine Sawdust. Clean - Soil, Air, Water, 2015, 43, 96-103.	1.1	36
41	Effect of surface properties of activated carbon on CO oxidation over supported Wacker-type catalysts. Catalysis Today, 2010, 153, 184-188.	4.4	33
42	A novel cationic graphene modified cyclodextrin adsorbent with enhanced removal performance of organic micropollutants and high antibacterial activity. Journal of Hazardous Materials, 2022, 426, 128074.	12.4	33
43	Integration study of a hybrid solvent MEA-Methanol for post combustion carbon dioxide capture in packed bed absorption and regeneration columns. Separation and Purification Technology, 2016, 167, 17-23.	7.9	30
44	Accelerated photoelectron transmission by carboxymethyl Î²-cyclodextrin for organic contaminants removal: An alternative to noble metal catalyst. Journal of Hazardous Materials, 2020, 393, 122414.	12.4	30
45	Multifunctional Antibacterial Materials for the Control of Hazardous Microbes and Chemicals: A Review. ACS ES&T Water, 2021, 1, 479-497.	4.6	30
46	Sorption of polycyclic aromatic hydrocarbons from aqueous solution by hexadecyltrimethylammonium bromide modified fibric peat. Journal of Chemical Technology and Biotechnology, 2010, 85, 1084-1091.	3.2	29
47	Lead immobilization in soil using new hydroxyapatite-like compounds derived from oyster shell and its uptake by plant. Chemosphere, 2021, 279, 130570.	8.2	27
48	Enhanced Anaerobic Digestion of Swine Manure by the Addition of Zero-Valent Iron. Energy & Fuels, 2019, 33, 12441-12449.	5.1	25
49	Simultaneous removal of SO2 and NOx with ammonia combined with gas-phase oxidation of NO using ozone. Chemical Industry and Chemical Engineering Quarterly, 2015, 21, 305-310.	0.7	24
50	Effect of quaternary ammonium surfactant modification on oil removal capability of polystyrene resin. Separation and Purification Technology, 2010, 75, 266-272.	7.9	23
51	Efficient removal of Salbutamol and Atenolol by an electronegative silanized Î²-cyclodextrin adsorbent. Separation and Purification Technology, 2022, 282, 120013.	7.9	20
52	An oxygen slow-releasing material and its application in water remediation as oxygen supplier. Environmental Technology (United Kingdom), 2017, 38, 2793-2799.	2.2	19
53	Orthogonal test design to optimize the operating parameters of CO2 desorption from a hybrid solvent MEA-Methanol in a packing stripper. Journal of the Taiwan Institute of Chemical Engineers, 2016, 64, 196-202.	5.3	18
54	Study on the extraction kinetics of phenolic compounds from petroleum refinery waste lye. Journal of Saudi Chemical Society, 2014, 18, 589-592.	5.2	17

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55	Performance of UV/acetylacetone process for saline dye wastewater treatment: Kinetics and mechanism. Journal of Hazardous Materials, 2021, 406, 124774.	12.4	17
56	Effects of sustained-release composite on the oxygen levels and sediment phosphorus fractions of an urban river in Shanghai. Environmental Technology (United Kingdom), 2014, 35, 2176-2182.	2.2	16
57	Efficient removal of roxarsone and emerging organic contaminants by a solar light-driven in-situ Fenton system. Chemical Engineering Journal, 2022, 435, 132434.	12.7	15
58	Experimental study of a hybrid solvent MEA-Methanol for post-combustion CO 2 absorption in an absorber packed with three different packing: Sulzer BX500, Mellapale Y500, Pall rings 16 Ã— 16. Separation and Purification Technology, 2016, 163, 23-29.	7.9	12
59	Postcombustion CO₂ capture using diethylenetriamine (DETA) solvent in a pilotâ€plant test bed compared to monoethanolamine (MEA) solvent. Environmental Progress and Sustainable Energy, 2017, 36, 1131-1138.	2.3	12
60	PDA-cross-linked beta-cyclodextrin: a novel adsorbent for the removal of BPA and cationic dyes. Water Science and Technology, 2020, 81, 2337-2350.	2.5	11
61	Separation of oil from oily wastewater by modified resin. Water Science and Technology, 2009, 59, 957-963.	2.5	10
62	Sorption characteristics of phenanthrene and pyrene to surfactant-modified peat from aqueous solution: the contribution of partition and adsorption. Water Science and Technology, 2015, 71, 296-302.	2.5	10
63	Hydrolysis of Urea for Ammonia-Based Wet Flue Gas Desulfurization. Industrial & Engineering Chemistry Research, 2015, 54, 9072-9080.	3.7	10
64	Orthogonal test design to optimize the operating parameters of a hybrid solvent MEAâ€“Methanol in an absorber column packed with three different packing: Sulzer BX500, Mellapale Y500 and Pall rings 16ÂÃ—â€‰16 for post-combustion CO 2 capture. Journal of the Taiwan Institute of Chemical Engineers, 2016, 68, 218-223.	5.3	10
65	Silver-Modified Î²-Cyclodextrin Polymer for Water Treatment: A Balanced Adsorption and Antibacterial Performance. Water (Switzerland), 2021, 13, 3004.	2.7	9
66	Adsorption of phenanthrene by quaternary ammonium surfactant modified peat and the mechanism involved. Water Science and Technology, 2012, 66, 810-815.	2.5	8
67	Enhanced oilâ€“mineral aggregation with modified bentonite. Water Science and Technology, 2013, 67, 1581-1589.	2.5	7
68	Trichloroethylene degradation by PVA-coated calcium peroxide nanoparticles in Fe(II)-based catalytic systems: enhanced performance by citric acid and nanoscale iron sulfide. Environmental Science and Pollution Research, 2021, 28, 3121-3135.	5.3	7
69	Effect of hexadecyltrimethyl ammonium bromide on the modified rice straw characteristics and its sorption behavior of phenanthrene. Desalination and Water Treatment, 2016, 57, 15220-15229.	1.0	6
70	Enhancing Nitrogen Removal in Coking Wastewater Treatment by Activated Sludge Process: Comparison of Sodium Acetate, Methanol and Phenol as External Carbon Source for Denitrification. Asian Journal of Chemistry, 2014, 26, 205-208.	0.3	5
71	Microbial degradation of diesel oil and heavy oil in the presence of modified clay. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 326-331.	2.3	5
72	Experimental study of regeneration performance for CO₂ desorption from a hybrid solvent MEAâ€methanol in a stripper column packed with three different packing: Sulzer BX500, mellapale Y500 and pall rings 16 Ã— 16. Environmental Progress and Sustainable Energy, 2017, 36, 838-844.	2.3	5

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73	Application of a novel diol-based porous organic polymer to the determination of trace-level tetracyclines in water. Analytical Methods, 2019, 11, 2473-2481.	2.7	5
74	Absorption and regeneration characteristics of alkanolamines after CO₂removal from flue gas. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 3202-3206.	2.3	4
75	CO₂ removal in a packed tower with two different fillers. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 219-224.	2.3	4
76	Improving cyanide removal from coke plant wastewaters by optimizing the operation conditions of an ammonia still tower. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 491-496.	2.3	3
77	Investigation of organic desulfurization additives affecting the calcium sulfate crystals formation. Chemical Industry and Chemical Engineering Quarterly, 2017, 23, 161-167.	0.7	3
78	Efficient Oxidation of Paracetamol Triggered by Molecularâ€oxygen Activation at Î²â€cyclodextrin Modified Titanate Nanotube. Chemistry - an Asian Journal, 2022, , .	3.3	3
79	Salt-tolerant microorganisms treating hypersaline organic wastewater and the microbial population dynamics. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 2854-2859.	2.3	2
80	Comparison of absorption and regeneration performance for post-combustion CO₂capture by mixed MEA solvents. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 2530-2535.	2.3	2
81	Selecting organic desulphurization additives in flue gas desulphurization process. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 2649-2655.	2.3	2
82	Effect of additives on limestone reactivity in flue gas desulfurization. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 166-171.	2.3	2
83	Kinetics of Oxidation Inhibition of Sodium Sulphite in Wet Flue Gas Desulphurization Process. Asian Journal of Chemistry, 2013, 25, 5381-5384.	0.3	1
84	Optimizing the characteristics of calcium sulfate dihydrate in the flue gas desulfurization process: Investigation of the impurities in slurry-Cl-, Fe3+, Mn2+. Chemical Industry and Chemical Engineering Quarterly, 2017, 23, 293-299.	0.7	1
85	Removal of Ammonium Nitrogen from Petrochemical Wastewater by Anaerobic-Aerobic Process. Asian Journal of Chemistry, 2013, 25, 9591-9594.	0.3	0
86	Combined Air Oxidation and Activated Sludge Process for the Treatment of Refinery Spent Caustics. Asian Journal of Chemistry, 2014, 26, 8375-8379.	0.3	0