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Carbon-based adsorbents for fluoroquinolone removal from water and wastewater: A critical review

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#	Paper	IF	Citations
25	Microporous carbon derived from hydroxyl functionalized organic network for efficient adsorption of flumequine: Adsorption mechanism and application potentials. <i>Chemical Engineering Journal</i> , 2021 , 427, 130943	14.7	8
24	Biochars adsorption performance towards moxifloxacin and ofloxacin in aqueous solution: Role of pyrolysis temperature and biomass type. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101912	7	4
23	Antibiotics: An overview on the environmental occurrence, toxicity, degradation, and removal methods. <i>Bioengineered</i> , 2021 , 12, 7376-7416	5.7	17
22	Strategy for enhancing the electrocatalytic performance of Ti/EPbO ₂ anode: optimizing SnO ₂ intermediate layer by Cs doping and application for the efficient removal of mixed fluoroquinolones. <i>Journal of Alloys and Compounds</i> , 2021 , 162528	5.7	0
21	Facile fabrication of low-cost activated carbon bonded polyethersulfone membrane for efficient bacteria and turbidity removal. <i>Water Practice and Technology</i> ,	0.9	1
20	Promising adsorptive materials derived from agricultural and industrial wastes for antibiotic removal: A comprehensive review. <i>Separation and Purification Technology</i> , 2022 , 284, 120286	8.3	3
19	Colloidal biochar for enhanced adsorption of antibiotic ciprofloxacin in aqueous and synthetic hydrolyzed human urine matrices.. <i>Chemosphere</i> , 2022 , 297, 133984	8.4	0
18	Insight into the synthesis and adsorption mechanism of adsorbents for efficient phosphate removal: Exploration from synthesis to modification. <i>Chemical Engineering Journal</i> , 2022 , 442, 136147	14.7	4
17	Photocatalytic degradation of lomefloxacin antibiotics using hydrothermally synthesized magnesium titanate under visible light-driven energy sources.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	0
16	Removal of tetracycline by aerobic granular sludge from marine aquaculture wastewater: A molecular dynamics investigation.. <i>Bioresource Technology</i> , 2022 , 355, 127286	11	0
15	Removing antibiotic resistance genes under heavy metal stress with carbon-based materials and clay minerals: By sorption alone?. <i>Chemical Engineering Journal</i> , 2022 , 446, 137121	14.7	0
14	Enhanced adsorption of fluoroquinolone antibiotic on the surface of the Mg-, Ca-, Fe- and Zn-doped C60 fullerenes: DFT and TD-DFT approach. <i>Materials Today Communications</i> , 2022 , 31, 103798	2.5	1
13	Effective extraction of fluoroquinolones from water using facile modified plant fibers. <i>Journal of Pharmaceutical Analysis</i> , 2022 ,	14	0
12	Fabrication of graphene oxide/inulin impregnated with ZnO nanoparticles for efficient removal of enrofloxacin from water: Taguchi-optimized experimental analysis. <i>Journal of Environmental Management</i> , 2022 , 318, 115525	7.9	1
11	Hybridization of laccase with dendrimer-grafted silica-coated hercynite-copper phosphate magnetic hybrid nanoflowers and its application in bioremoval of gemifloxacin. <i>Environmental Science and Pollution Research</i> ,	5.1	0
10	Construction the hierarchical architecture of molybdenum disulfide/MOF composite membrane via electrostatic self-assembly strategy for efficient molecular separation. <i>Chemical Engineering Journal</i> , 2022 , 449, 137808	14.7	0
9	Essence of hydroxyapatite in defluoridation of drinking water: A review. 2022 , 311, 119882		1

- 8 Low cost iron modified syzygium cumini l. Wood biochar for adsorptive removal of ciprofloxacin and doxycycline antibiotics from aqueous solution. **2022**, 144, 109895 ○
- 7 N-doped and activated porous biochar derived from cocoa shell for removing norfloxacin from aqueous solution: Performance assessment and mechanism insight. **2022**, 214, 113951 ○
- 6 Removal of ofloxacin from water by natural ilmenite-biochar composite: A study on the synergistic adsorption mechanism of multiple effects. **2022**, 363, 127938 ○
- 5 Efficient removal of polybrominated diphenyl ethers from soil washing effluent by dummy molecular imprinted adsorbents: Selectivity and mechanisms. **2022**, ○
- 4 Improvement of Ciprofloxacin Antibiotic Photocatalytic Degradation and Adsorption Ability from Aqueous Solution by Bismuth Oxyiodide. ○
- 3 Fluoroquinolone antibiotics: Occurrence, mode of action, resistance, environmental detection, and remediation [A comprehensive review. **2022**, 315, 120440 1
- 2 Adsorptive removal of gemifloxacin from aqueous solution using mesoporous Fe-incorporated silica pillared clay followed by thermal regeneration. **2022**, 33, 104932 ○
- 1 Effect of graphene and graphene oxide on antibiotic resistance genes during copper-contained swine manure anaerobic digestion. ○