

Biological activated carbon treatment of industrial waste

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Responses of Biological Activated Carbon to Shock Loadings of Wastewater Qualities.. Journal of Japan Society on Water Environment, 2001, 24, 393-397.	0.4	0
2	REMOVAL AND RECOVERY OF DYESTUFFS FROM DYEING WASTEWATERS. Separation and Purification Reviews, 2002, 31, 171-228.	0.8	57
3	Comparison of the Sorption of Anionic Dyes on Activated Carbon and Chitosan Derivatives from Dilute Solutions. Separation Science and Technology, 2003, 38, 3049-3073.	2.5	118
4	Effluent treatment â€œ Enzymes in activated sludge. , 2003, , 199-221.		8
5	Biodegradation of Red B Dye by <i>Bacillus Sp. OY1-2</i>. Environmental Technology (United Kingdom), 2004, 25, 1167-1176.	2.2	13
6	Reduction of hydraulic conductivity changes in an in-ground bioreactor. Journal of Environmental Engineering and Science, 2005, 4, 195-207.	0.8	6
7	Bioremediation for the Decolorization of Textile Dyes â€” A Review. , 2005, , 269-288.		48
8	Optimization and modeling of decolorization and COD reduction of reactive dye solutions by ultrasound-assisted adsorption. Chemical Engineering Journal, 2006, 119, 175-181.	12.7	59
9	Chapter 9 Activated carbon filters and their industrial applications. Interface Science and Technology, 2006, 7, 421-474.	3.3	20
10	Biotechnological treatment of textile dye effluent. , 2007, , 212-231.		3
11	Combined effect of adsorption and biodegradation of biological activated carbon on H ₂ S biotrickling filtration. Chemosphere, 2007, 66, 1684-1691.	8.2	61
12	Effective Anaerobic Decolorization of Azo Dye Acid Orange 7 in Continuous Upflow Packed-Bed Reactor Using Biological Activated Carbon System. Industrial & Engineering Chemistry Research, 2007, 46, 6788-6792.	3.7	87
13	Kinetic Modeling of the Adsorption of Basic Dyes onto Steam-Activated Bituminous Coal. Industrial & Engineering Chemistry Research, 2007, 46, 4764-4771.	3.7	11
14	Treatment of ink-containing wastewater by coagulation/flocculation using biopolymers. Water S A, 2007, 31, .	0.4	25
15	Bioregeneration of activated carbon: A review. International Biodeterioration and Biodegradation, 2007, 59, 257-272.	3.9	219
16	Review of modifications of activated carbon for enhancing contaminant uptakes from aqueous solutions. Separation and Purification Technology, 2007, 52, 403-415.	7.9	560
17	Incorporation of granular activated carbon in an immobilized membrane bioreactor for the biodegradation of phenol by <i>Pseudomonas putida</i> . Biotechnology Letters, 2007, 29, 1353-1356.	2.2	11
18	Chemical and Ecotoxicological Assessment of Selected Biologically Activated Sorbents for Treating Wastewater Polluted with Petroleum Products with Special Emphasis on Polycyclic Aromatic Hydrocarbons. Water, Air, and Soil Pollution, 2008, 195, 243-256.	2.4	19

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19	Phenol biodegradation in hybrid hollow-fiber membrane bioreactors. <i>World Journal of Microbiology and Biotechnology</i> , 2008, 24, 1843-1849.	3.6	8
20	Evaluation of hyper-cross-linked polymeric sorbents (Macronet MN200 and MN300) on dye (Acid red) Tj ETQq1 1 0,784314 rgBT /Over	4.1	43
21	Kinetic study of acid red dye removal by activated carbon and hyper-cross-linked polymeric sorbents Macronet Hypersol MN200 and MN300. <i>Reactive and Functional Polymers</i> , 2008, 68, 718-731.	4.1	49
22	Adsorption of basic dyes from aqueous solution onto activated carbons. <i>Chemical Engineering Journal</i> , 2008, 135, 174-184.	12.7	333
23	An optimization study using response surface methods on the decolorization of Reactive Blue 19 from aqueous solution by ultrasound. <i>Ultrasonics Sonochemistry</i> , 2008, 15, 530-538.	8.2	33
24	Characterization of Azo Dye (Acid Red 14) Removal with Granular Activated Carbon: Equilibrium and Kinetic Data. <i>Solvent Extraction and Ion Exchange</i> , 2008, 26, 271-288.	2.0	9
25	Snail shell as coagulant aid in the alum precipitation of malachite green from aqua system. <i>Journal of Hazardous Materials</i> , 2009, 164, 1496-1502.	12.4	103
26	Multivariate analysis of a biologically activated carbon (BAC) system and its efficiency for removing PAHs and aliphatic hydrocarbons from wastewater polluted with petroleum products. <i>Journal of Hazardous Materials</i> , 2009, 170, 103-110.	12.4	24
27	Dynamic response of combined activated sludge-powdered activated carbon batch systems. <i>Chemical Engineering Journal</i> , 2010, 157, 331-338.	12.7	17
28	Mechanisms of Fouling Control in Membrane Bioreactors by the Addition of Powdered Activated Carbon. <i>Separation Science and Technology</i> , 2010, 45, 873-889.	2.5	31
29	Treatment of wastewater from acrylonitrile-butadiene-Styrene (ABS) resin manufacturing by biological activated carbon (BAC). , 2011, , .		0
32	Adsorption of reactive dyes from aqueous solutions by tannery sludge developed activated carbon: Kinetic and equilibrium studies. <i>International Journal of Environmental Science and Technology</i> , 2011, 8, 561-570.	3.5	64
33	In situ hybridization of waste dyes into growing particles of calcium derivatives synthesized from a Gastropod shell (<i>Achatina Achatina</i>). <i>Chemical Engineering Journal</i> , 2011, 171, 941-950.	12.7	31
34	Evaluation of Biological Activated Carbon (BAC) process in wastewater treatment secondary effluent for reclamation purposes. <i>Desalination</i> , 2011, 265, 266-273.	8.2	93
35	Towards advanced aqueous dye removal processes: A short review on the versatile role of activated carbon. <i>Journal of Environmental Management</i> , 2012, 102, 148-164.	7.8	387
36	Treatment of wastewater from acrylonitrile-butadiene-styrene (ABS) resin manufacturing by biological activated carbon (BAC). <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 474-482.	3.2	24
37	Potential of BAC combined with UVC/H ₂ O ₂ for reducing organic matter from highly saline reverse osmosis concentrate produced from municipal wastewater reclamation. <i>Chemosphere</i> , 2013, 93, 683-688.	8.2	52
38	Optimization of membrane bioreactors by the addition of powdered activated carbon. <i>Bioresource Technology</i> , 2013, 138, 38-47.	9.6	56

#	ARTICLE	IF	CITATIONS
39	Removal of micropollutants by biofilms: current approaches and future prospects. <i>Environmental Technology Reviews</i> , 2013, 2, 29-44.	4.3	6
40	Biological Activated Carbon Treatment Process for Advanced Water and Wastewater Treatment. , 0, , .		21
41	Preparation of Chitosan Coated Magnetic Hydroxyapatite Nanoparticles and Application for Adsorption of Reactive Blue 19 and Ni ²⁺ Ions. <i>Scientific World Journal</i> , The, 2014, 2014, 1-9.	2.1	28
42	Characterization and performance of carbonaceous materials obtained from exhausted sludges for the anaerobic biodecolorization of the azo dye Acid Orange II. <i>Journal of Hazardous Materials</i> , 2014, 267, 21-30.	12.4	37
43	Simulated sugar factory wastewater remediation kinetics using algal-bacterial raceway reactor promoted by Polyacrylate polyalcohol. <i>Bioresource Technology</i> , 2014, 157, 37-43.	9.6	5
44	Influence of Biofilm on Activated Carbon on the Adsorption and Biodegradation of Salicylic Acid in Wastewater. <i>Water, Air, and Soil Pollution</i> , 2014, 225, 1.	2.4	38
45	Effect of biological activated carbon pre-treatment to control organic fouling in the microfiltration of biologically treated secondary effluent. <i>Water Research</i> , 2014, 63, 147-157.	11.3	50
46	Fate of Organic Pollutants in a Full-Scale Drinking Water Treatment Plant Using O ₃ -BAC. <i>Ozone: Science and Engineering</i> , 2015, 37, 257-268.	2.5	11
47	Mechanochemically driven iodination of activated charcoal for metal-free electrocatalyst for fuel cells and hybrid Li-air cells. <i>Carbon</i> , 2015, 93, 465-472.	10.3	12
48	Removing organic and nitrogen content from a highly saline municipal wastewater reverse osmosis concentrate by UV/H ₂ O ₂ -BAC treatment. <i>Chemosphere</i> , 2015, 136, 198-203.	8.2	43
49	Iodinated Charcoal as Electrocatalyst for Oxygen Reduction Reaction. <i>Applied Mechanics and Materials</i> , 2015, 749, 36-40.	0.2	0
50	Application of immobilized and granular dried anaerobic biomass for stabilizing and increasing anaerobic bio-systems tolerance for high organic loads and phenol shocks. <i>Bioresource Technology</i> , 2015, 197, 106-112.	9.6	13
51	Utilizaç�o de carv�o ativado biol�gico para o tratamento de �gua para consumo humano. <i>Engenharia Sanitaria E Ambiental</i> , 2016, 21, 425-436.	0.5	7
52	Treatment of Copper Contaminated Municipal Wastewater by Using UASB Reactor and Sand-Chemically Carbonized Rubber Wood Sawdust Column. <i>BioMed Research International</i> , 2016, 2016, 1-9.	1.9	12
53	Influence of pre-treatment combinations on RO membrane fouling. <i>Desalination</i> , 2016, 393, 120-126.	8.2	50
54	Impact of salinity on organic matter and nitrogen removal from a municipal wastewater RO concentrate using biologically activated carbon coupled with UV/H ₂ O ₂ . <i>Water Research</i> , 2016, 94, 103-110.	11.3	44
55	Combined Homogeneous Surface Diffusion Model - Design of experiments approach to optimize dye adsorption considering both equilibrium and kinetic aspects. <i>Journal of Environmental Management</i> , 2017, 204, 424-435.	7.8	39
56	Impact of ozonation and biological activated carbon filtration on ceramic membrane fouling. <i>Water Research</i> , 2017, 126, 308-318.	11.3	42

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58	Bio-regeneration of activated carbon: A comprehensive review. Separation and Purification Technology, 2018, 197, 345-359.	7.9	158
59	Bioremediation: Green and Sustainable Technology for Textile Effluent Treatment. Textile Science and Clothing Technology, 2018, , 75-91.	0.5	16
60	Anaerobic Bioremediation Performance and Indigenous Microbial Communities in Treatment of Trichloroethylene/Nitrate-Contaminated Groundwater. Environmental Engineering Science, 2018, 35, 311-322.	1.6	7
61	Enhancement in biological treatment of pulping wastewater by fly ash. Chemosphere, 2018, 210, 1-9.	8.2	9
62	Effect of activated carbon on removal of four phenolic endocrine-disrupting compounds, bisphenol A, bisphenol F, bisphenol S, and 4-tert-butylphenol in constructed wetlands. Chemosphere, 2018, 210, 717-725.	8.2	50
63	Green synthesis, activation and functionalization of adsorbents for dye sequestration. Environmental Chemistry Letters, 2019, 17, 157-193.	16.2	38
64	Performance of anaerobic membrane bioreactors (AnMBRs) with different concentration of powdered activated carbon (PAC) at mesophilic regime in membrane fouling control. AIP Conference Proceedings, 2019, , .	0.4	0
65	Comparison of the effects of ozone, biological activated carbon (BAC) filtration and combined ozone-BAC pre-treatments on the microfiltration of secondary effluent. Separation and Purification Technology, 2019, 215, 308-316.	7.9	31
66	Adsorption Using Lime-Iron Sludgeâ€œEncapsulated Calcium Alginate Beads for Phosphate Recovery with ANN- and RSM-Optimized Encapsulation. Journal of Environmental Engineering, ASCE, 2019, 145, .	1.4	26
67	Effects of the inclusion of biological activated carbon on membrane fouling in combined process of ozonation, coagulation and ceramic membrane filtration for water reclamation. Chemosphere, 2019, 220, 20-27.	8.2	29
68	Effects of Different Biological Carriers in Microbial Fuel Cells. ACS Omega, 2020, 5, 21623-21630.	3.5	2
69	The removal performance of nitrates in the novel 3D-BERS with GAC and diversity of immobilized microbial communities treating nitrate-polluted water: Effects of pH and COD/NO ₃ -N ratio. Environmental Engineering Research, 2022, 27, 200526-0.	2.5	2
70	Dyesâ€œEnvironmental Impact and Remediation. , 2012, , 111-162.		173
71	Investigation of Decolorization of Textile Wastewater in an Anaerobic/Aerobic Biological Activated Carbon System (A/A BAC). Pakistan Journal of Biological Sciences, 2010, 13, 316-324.	0.5	16
72	Industrial implementation of a biosorption system with GAC. WIT Transactions on Ecology and the Environment, 2006, , .	0.0	0
73	Sustainable Management of Municipal Wastewater Reverse Osmosis Concentrate: Treatment with Biological Activated Carbon Based Processes for Safe Disposal. , 2019, , 1-14.		0
74	MANUFACTURING OF ACTIVATED CARBON USING DISPOSABLE COCONUT SHELLS FOR CATALYTIC ACTIVITIES AND WATER TREATMENT UTILIZATIONS. Technology Transfer Fundamental Principles and Innovative Technical Solutions, 2020, 4, 6-9.	0.1	0
75	A review on experimental chemically modified activated carbon to enhance dye and heavy metals adsorption. Cleaner Engineering and Technology, 2022, 6, 100382.	4.0	112

#	ARTICLE	IF	CITATIONS
76	Activated Sludge: Conventional Dye Treatment Technique. Sustainable Textiles, 2022, , 119-153.	0.7	2
77	The investigation of activated carbon by K ₂ CO ₃ activation: Micropores- and macropores-dominated structure. Chemosphere, 2022, 299, 134365.	8.2	29
79	Investigation of the flow patterns and mixing efficiency in a stirred tank through particle image velocimetry. Journal of the Taiwan Institute of Chemical Engineers, 2023, 149, 104988.	5.3	2
80	Adsorption-Desorption Process to Separate Dyes from Tanning Wastewaters. Processes, 2023, 11, 3006.	2.8	0