

Performance and bacterial community of moving bed biocarriers treating primary wastewater effluent with a C/N ratio

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Highly heterogeneous interior structure of biofilm wastewater for enhanced pollutant removals. <i>Bioresource Technology</i> , 2019, 291, 121919.	4.8	12
2	Impacts of typical pharmaceuticals and personal care products on the performance and microbial community of a sponge-based moving bed biofilm reactor. <i>Bioresource Technology</i> , 2020, 295, 122298.	4.8	44
3	Landfill leachate as an additional substance in the Johannesburg-Sulfur autotrophic denitrification system in the treatment of municipal wastewater with low strength and low COD/TN ratio. <i>Bioresource Technology</i> , 2020, 295, 122287.	4.8	26
4	Performance of novel sponge biocarrier in MBBR treating recirculating aquaculture systems wastewater: Microbial community and kinetic study. <i>Journal of Environmental Management</i> , 2020, 275, 111264.	3.8	55
5	Prediction the performance of multistage moving bed biological process using artificial neural network (ANN). <i>Science of the Total Environment</i> , 2020, 744, 140854.	3.9	38
6	Microbial community succession, species interactions and metabolic pathways of sulfur-based autotrophic denitrification system in organic-limited nitrate wastewater. <i>Bioresource Technology</i> , 2020, 315, 123826.	4.8	89
7	Pilot study on the upgrading configuration of UASB-MBBR with two carriers: Treatment effect, sludge reduction and functional microbial identification. <i>Process Biochemistry</i> , 2020, 99, 211-221.	1.8	16
8	Study on optimization and performance of biological enhanced activated sludge process for pharmaceutical wastewater treatment. <i>Science of the Total Environment</i> , 2020, 739, 140166.	3.9	33
9	Optimizing nutrient removal of moving bed biofilm reactor process using response surface methodology. <i>Bioresource Technology</i> , 2020, 305, 123059.	4.8	44
10	Enhanced biogas production from swine manure anaerobic digestion via in-situ formed graphene in electromethanogenesis system. <i>Chemical Engineering Journal</i> , 2020, 389, 124510.	6.6	46
11	Simultaneous nitrate, nickel ions and phosphorus removal in a bioreactor containing a novel composite material. <i>Bioresource Technology</i> , 2020, 305, 123081.	4.8	10
12	Ecological insights into the underlying evolutionary patterns of biofilm formation from biological wastewater treatment systems: Red or Black Queen Hypothesis?. <i>Biotechnology and Bioengineering</i> , 2020, 117, 1270-1280.	1.7	4
13	Enhancing treated wastewater effluent characteristics using hybrid biofilm/activated sludge process – a case study. <i>Water Science and Technology</i> , 2020, 81, 217-227.	1.2	2
14	Iron-enhanced primary sedimentation and acidogenic sludge fermentation to achieve self-sufficient organic carbon supply for enhanced nutrient removal in wastewater treatment. <i>Resources, Conservation and Recycling</i> , 2021, 164, 105220.	5.3	1
15	Bioaugmentation of Moving Bed Biofilm Reactor (MBBR) with <i>Achromobacter</i> JL9 for enhanced sulfamethoxazole (SMX) degradation in aquaculture wastewater. <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111258.	2.9	37
16	Nitrogen removal performance and bacterial community in a full-scale modified Orbal oxidation ditch with internal nitrate recycle and biocarriers. <i>Journal of Water Process Engineering</i> , 2021, 40, 101791.	2.6	8
17	Biological fixed-film systems. <i>Water Environment Research</i> , 2021, 93, 491-501.	1.3	2
18	Moving bed biofilm reactor developed with special microbial seed for denitrification of high nitrate containing wastewater. <i>World Journal of Microbiology and Biotechnology</i> , 2021, 37, 68.	1.7	8

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19	Degradation of Landfill Leachate Using UV-TiO ₂ Photocatalysis Combination with Aged Waste Reactors. <i>Processes</i> , 2021, 9, 946.	1.3	11
20	Microbial nitrogen removal in synthetic aquaculture wastewater by fixed-bed baffled reactors packed with different biofilm carrier materials. <i>Bioresource Technology</i> , 2021, 331, 125045.	4.8	14
21	Toxic Effect of Ammonium Nitrogen on the Nitrification Process and Acclimatisation of Nitrifying Bacteria to High Concentrations of NH ₄ -N in Wastewater. <i>Energies</i> , 2021, 14, 5329.	1.6	6
22	Biofilm with highly heterogeneous interior structure for pollutant removal: Cell distribution and manipulated mass transport. <i>Bioresource Technology</i> , 2022, 343, 125913.	4.8	9
23	Analysis of nitrifying bacteria growth on two new types of biomass carrier using respirometry and molecular genetic methods. <i>Ecotoxicology and Environmental Safety</i> , 2021, 225, 112795.	2.9	5
24	Enhancing anoxic denitrification of low C/N ratio wastewater with novel ZVI composite carriers. <i>Journal of Environmental Sciences</i> , 2022, 112, 180-191.	3.2	23
25	Impact of Saddle-Chips biocarrier on treating mariculture wastewater by moving bed biofilm reactor (MBBR): Mechanism and kinetic study. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106710.	3.3	15
26	Denitrifying bacteria immobilized magnetic mycelium pellets bioreactor: A new technology for efficient removal of nitrate at a low carbon-to-nitrogen ratio. <i>Bioresource Technology</i> , 2022, 347, 126369.	4.8	16
27	Bacterial biofilm and extracellular polymeric substances in the moving bed biofilm reactor for wastewater treatment: A review. <i>Bioresource Technology</i> , 2022, 345, 126476.	4.8	56
28	Insight into the characteristics of microbial communities in a single-stage anammox reactor under different oxygen conditions. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 419-428.	1.2	1
29	Simultaneous partial nitrification, anammox, and denitrification in an upflow microaerobic membrane bioreactor treating middle concentration of ammonia nitrogen wastewater with low COD/TN ratio. <i>Chemosphere</i> , 2022, 295, 133832.	4.2	42
30	Novel intertidal wetland sediment-inoculated moving bed biofilm reactor treating high-salinity wastewater: Metagenomic sequencing revealing key functional microorganisms. <i>Bioresource Technology</i> , 2022, 348, 126817.	4.8	12
31	Time-lagged interspecies interactions prevail during biofilm development in moving bed biofilm reactor. <i>Biotechnology and Bioengineering</i> , 0, , .	1.7	0
32	Composite hydrolytic acidification - aerobic MBBR process for treating traditional Chinese medicine wastewater. <i>Biodegradation</i> , 2022, 33, 509-528.	1.5	4
33	Quantitative and Qualitative Changes in the Genetic Diversity of Bacterial Communities in Anaerobic Bioreactors with the Diatomaceous Earth/Peat Cell Carrier. <i>Cells</i> , 2022, 11, 2571.	1.8	3
34	Metagenomic insights into microbial nitrogen metabolism in two-stage anoxic/oxic-moving bed biofilm reactor system with multiple chambers for municipal wastewater treatment. <i>Bioresource Technology</i> , 2022, 361, 127729.	4.8	10
35	Characterization of the nitrogen-transforming microbial community in the biofilms of a full-scale rotating biological contactor system treating wastewater from a fresh market building. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 1845-1858.	1.2	1
37	Separate effect of turbulent pulsation on internal mass transfer in porous biofilms. <i>Environmental Research</i> , 2023, 217, 114972.	3.7	2

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38	Intracellularly-photosensitized bio-hybrid with biogenic quantum dots for enhanced wastewater denitrification. <i>Chemical Engineering Journal</i> , 2023, 457, 141237.	6.6	3
39	Deciphering community assembly and succession in sequencing batch moving bed biofilm reactor: Differentiation between attached and suspended communities. <i>Science of the Total Environment</i> , 2023, 873, 162448.	3.9	6
40	New insights into the microbial-driven metal reductive dissolution for enhanced phosphorus release from iron-rich sludge. <i>Journal of Cleaner Production</i> , 2023, 392, 136290.	4.6	4
41	Characteristics of Tetracycline Degradation Coupled Simultaneous Nitrification-Denitrification and Phosphorus Removal in Aquaculture Wastewater. <i>Geomicrobiology Journal</i> , 2023, 40, 399-412.	1.0	2
42	Chemical and biological combined treatment for sugarcane vinasse: selection of parameters and performance studies. <i>Environmental Science and Pollution Research</i> , 2023, 30, 65364-65378.	2.7	2