

Barbara Muñoz Palazon

List of Publications by Year in descending order

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papers

767
citations

516561

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all docs

34
docs citations

34
times ranked

693
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance and bacterial community dynamics of a CANON bioreactor acclimated from high to low operational temperatures. <i>Chemical Engineering Journal</i> , 2016, 287, 557-567.	6.6	114
2	Start-up and operation of an aerobic granular sludge system under low working temperature inoculated with cold-adapted activated sludge from Finland. <i>Bioresource Technology</i> , 2017, 239, 180-189.	4.8	60
3	Microbial ecology of full-scale wastewater treatment systems in the Polar Arctic Circle: Archaea, Bacteria and Fungi. <i>Scientific Reports</i> , 2018, 8, 2208.	1.6	57
4	Microbial community analysis of a full-scale DEMON bioreactor. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 499-508.	1.7	49
5	Performance and microbial community structure of a polar Arctic Circle aerobic granular sludge system operating at low temperature. <i>Bioresource Technology</i> , 2018, 256, 22-29.	4.8	46
6	New concepts in anammox processes for wastewater nitrogen removal: recent advances and future prospects. <i>FEMS Microbiology Letters</i> , 2018, 365, .	0.7	45
7	Pollutants degradation performance and microbial community structure of aerobic granular sludge systems using inoculums adapted at mild and low temperature. <i>Chemosphere</i> , 2018, 204, 431-441.	4.2	31
8	Analysis of microbial communities involved in organic matter and nitrogen removal in a full-scale moving bed biofilm reactor located near the Polar Arctic Circle. <i>International Biodeterioration and Biodegradation</i> , 2020, 146, 104830.	1.9	31
9	Performance and microbial community structure of an aerobic granular sludge system at different phenolic acid concentrations. <i>Journal of Hazardous Materials</i> , 2019, 376, 58-67.	6.5	30
10	New Advances in Aerobic Granular Sludge Technology Using Continuous Flow Reactors: Engineering and Microbiological Aspects. <i>Water (Switzerland)</i> , 2021, 13, 1792.	1.2	29
11	Influence of salinity cycles in bioreactor performance and microbial community structure of membrane-based tidal-like variable salinity wastewater treatment systems. <i>Environmental Science and Pollution Research</i> , 2019, 26, 514-527.	2.7	24
12	Polar Arctic Circle biomass enhances performance and stability of aerobic granular sludge systems operated under different temperatures. <i>Bioresource Technology</i> , 2020, 300, 122650.	4.8	24
13	Isolation and metagenomic characterization of bacteria associated with calcium carbonate and struvite precipitation in a pure moving bed biofilm reactor-membrane bioreactor. <i>Biofouling</i> , 2015, 31, 333-348.	0.8	22
14	Performance and microbial community structure of aerobic granular bioreactors at different operational temperature. <i>Journal of Water Process Engineering</i> , 2020, 33, 101110.	2.6	22
15	Biological nitrate removal from groundwater by an aerobic granular technology to supply drinking water at pilot-scale. <i>Journal of Water Process Engineering</i> , 2021, 40, 101786.	2.6	19
16	Microbial ecology dynamics of a partial nitrification bioreactor with Polar Arctic Circle activated sludge operating at low temperature. <i>Chemosphere</i> , 2019, 225, 73-82.	4.2	16
17	Maximum Influent Salinity Affects the Diversity of Mineral-Precipitation-Mediating Bacterial Communities in Membrane Biofilm of Hybrid Moving Bed Biofilm Reactor-Membrane Bioreactor. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	15
18	Persistence of Enterobacteriaceae Drawn into a Marine Saltern (Saline di Tarquinia, Italy) from the Adjacent Coastal Zone. <i>Water (Switzerland)</i> , 2021, 13, 1443.	1.2	15

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19	Performance and bacterial community structure of a submerged biofilter subjected to high ammonium and high organic carbon concentrations. <i>International Biodeterioration and Biodegradation</i> , 2016, 115, 224-233.	1.9	14
20	Biological removal processes in aerobic granular sludge for treating synthetic hospital wastewater: Effect of temperature. <i>Journal of Water Process Engineering</i> , 2022, 47, 102691.	2.6	12
21	Quantitative and qualitative studies of microorganisms involved in full-scale autotrophic nitrogen removal performance. <i>AIChE Journal</i> , 2018, 64, 457-467.	1.8	9
22	Evaluating the nitrogen-contaminated groundwater treatment by a denitrifying granular sludge bioreactor: effect of organic matter loading. <i>Environmental Science and Pollution Research</i> , 2021, 28, 41351-41364.	2.7	9
23	Performance and microbial community structure of a full-scale ANITATMMox bioreactor for treating reject water located in Finland. <i>Chemosphere</i> , 2021, 271, 129526.	4.2	9
24	Performance and microbial community structure of an anammox biofilter treating real wastewater from a sludge return. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105211.	3.3	9
25	Biofouling Formation and Bacterial Community Structure in Hybrid Moving Bed Biofilm Reactor-Membrane Bioreactors: Influence of Salinity Concentration. <i>Water (Switzerland)</i> , 2018, 10, 1133.	1.2	8
26	Total and Metabolically Active Microbial Community of Aerobic Granular Sludge Systems Operated in Sequential Batch Reactors: Effect of Pharmaceutical Compounds. <i>Toxics</i> , 2021, 9, 93.	1.6	8
27	Effect of ultrasonic frequency on the bacterial community structure during biofouling formation in microfiltration membrane bioreactors for wastewater treatment. <i>International Biodeterioration and Biodegradation</i> , 2020, 155, 105102.	1.9	7
28	Groundwater Nitrate Removal Performance of Selected <i>Pseudomonas</i> Strains Carrying nosZ Gene in Aerobic Granular Sequential Batch Reactors. <i>Water (Switzerland)</i> , 2021, 13, 1119.	1.2	7
29	Novel application of aerobic granular biofilm systems for treating nitrate-polluted groundwater at low temperature: Microbial community and performance. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107818.	3.3	7
30	Effects of sulphur amino acids on the size and structure of microbial communities of aerobic granular sludge bioreactors. <i>Amino Acids</i> , 2022, 54, 1403-1419.	1.2	6
31	Process performance and bacterial community dynamics of partial nitrification biofilters subjected to different concentrations of cysteine amino acid. <i>Biotechnology Progress</i> , 2016, 32, 1254-1263.	1.3	5
32	Transmission of SARS-CoV-2 associated with wastewater treatment: a seroprevalence study. <i>International Journal of Water Resources Development</i> , 2022, 38, 928-937.	1.2	3
33	Could <i>Pontimonas</i> Harbour Halophilic Members Able to Withstand Very Broad Salinity Variations?. <i>Microorganisms</i> , 2022, 10, 790.	1.6	3
34	Profile of the Spatial Distribution Patterns of the Human and Bacteriophage Virome in a Wastewater Treatment Plant Located in the South of Spain. <i>Water (Switzerland)</i> , 2020, 12, 2316.	1.2	2