

Joao Bassin

List of Publications by Year in descending order

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75
papers

3,007
citations

212478

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190340

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docs citations

78
times ranked

3157
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of Dyes from Wastewaters in Moving Bed Biofilm Reactors: A Review of Biodegradation Pathways and Treatment Performance. <i>Sustainable Textiles</i> , 2022, , 227-262.	0.4	1
2	Investigating the effect of crude glycerol from biodiesel industry on the anaerobic co-digestion of sewage sludge and food waste in ternary mixtures. <i>Energy</i> , 2022, 241, 122818.	4.5	10
3	Treatment of saline wastewater amended with endocrine disruptors by aerobic granular sludge: Assessing performance and microbial community dynamics. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107272.	3.3	7
4	Pesticides removal from aqueous streams through anaerobic and aerobic biological treatment processes. , 2022, , 383-418.		1
5	Processes and technologies for water reuse in the industry. , 2022, , 3-54.		0
6	Treatment of a slaughterhouse wastewater by anoxic-aerobic biological reactors followed by UV disinfection and microalgae bioremediation. <i>Water Environment Research</i> , 2021, 93, 409-420.	1.3	10
7	Evaluating the effect of air flow rate on hybrid and conventional membrane bioreactors: Implications on performance, microbial activity and membrane fouling. <i>Science of the Total Environment</i> , 2021, 755, 142563.	3.9	21
8	Reactive Orange 16 dye degradation in anaerobic and aerobic MBBR coupled with ozonation: addressing pathways and performance. <i>International Journal of Environmental Science and Technology</i> , 2021, 18, 1991-2010.	1.8	24
9	Treatment of real domestic sewage in a pilot-scale aerobic granular sludge reactor: Assessing start-up and operational control. <i>Water Environment Research</i> , 2021, 93, 896-905.	1.3	4
10	High loaded moving bed biofilm reactors treating pulp & paper industry wastewater: Effect of hydraulic retention time, filling degree and nutrients availability on performance, biomass fractions and nutrients utilization. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104944.	3.3	11
11	Effect of sludge age on aerobic granular sludge: Addressing nutrient removal performance and biomass stability. <i>Chemical Engineering Research and Design</i> , 2021, 149, 212-222.	2.7	30
12	Electrochemical degradation of psychotropic pharmaceutical compounds from municipal wastewater and neurotoxicity evaluations. <i>Environmental Science and Pollution Research</i> , 2021, 28, 23958-23974.	2.7	8
13	Biodegradation of natural and synthetic endocrine-disrupting chemicals by aerobic granular sludge reactor: Evaluating estrogenic activity and estrogens fate. <i>Environmental Pollution</i> , 2021, 274, 116551.	3.7	23
14	Upgrade of a suspended biomass reactor with limited nitrification to a biofilm system: Addressing critical parameters and performance in different reactor configurations. <i>Biochemical Engineering Journal</i> , 2021, 170, 107987.	1.8	6
15	Anoxic/oxic membrane bioreactor assisted by electrocoagulation for the treatment of azo-dye containing wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105286.	3.3	31
16	COD, nitrogen and phosphorus removal from simulated sewage in an aerobic granular sludge in the absence and presence of natural and synthetic estrogens: Performance and biomass physical properties assessment. <i>Biochemical Engineering Journal</i> , 2021, 176, 108221.	1.8	8
17	Start-up of an aerobic granular sludge system from stored granules: Evaluating the impact of storage period on biomass activity and stability and the effect of temperature on nitrification and phosphorus removal rates. <i>Journal of Environmental Management</i> , 2021, 296, 113200.	3.8	9
18	Assessing the impact of synthetic estrogen on the microbiome of aerated submerged fixed-film reactors simulating tertiary sewage treatment and isolation of estrogen-degrading consortium. <i>Science of the Total Environment</i> , 2020, 743, 140428.	3.9	4

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19	Assessing the use of crude glycerol from biodiesel production as an alternative to boost methane generation by anaerobic co-digestion of sewage sludge. <i>Biomass and Bioenergy</i> , 2020, 143, 105831.	2.9	14
20	The role of dry anaerobic digestion in the treatment of the organic fraction of municipal solid waste: A systematic review. <i>Biomass and Bioenergy</i> , 2020, 143, 105866.	2.9	24
21	Metabolization of by-products formed by ozonation of the azo dye Reactive Red 239 in moving-bed biofilm reactors in series. <i>Brazilian Journal of Chemical Engineering</i> , 2020, 37, 495-504.	0.7	11
22	Electrochemical oxidation of paraben compounds and the effects of byproducts on neuronal activity. <i>Energy Reports</i> , 2020, 6, 903-908.	2.5	10
23	Tube-in-tube membrane reactor for heterogeneous TiO ₂ photocatalysis with radial addition of H ₂ O ₂ . <i>Chemical Engineering Journal</i> , 2020, 395, 124998.	6.6	33
24	Assessing the impact of hydraulic conditions and absence of pretreatment on the treatability of pesticide formulation plant wastewater in a moving bed biofilm reactor. <i>Journal of Water Process Engineering</i> , 2020, 36, 101243.	2.6	18
25	Investigating the most appropriate methods for attached solids determination in moving-bed biofilm reactors. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1867-1878.	1.7	12
26	Ozonation of the dye Reactive Red 239 and biodegradation of ozonation products in a moving-bed biofilm reactor: Revealing reaction products and degradation pathways. <i>International Biodeterioration and Biodegradation</i> , 2019, 144, 104742.	1.9	51
27	Effect of the gradual increase of salt on stability and microbial diversity of granular sludge and ammonia removal. <i>Journal of Environmental Management</i> , 2019, 248, 109273.	3.8	37
28	Removal of bromate from drinking water using a heterogeneous photocatalytic mini-reactor: impact of the reactor material and water matrix. <i>Environmental Science and Pollution Research</i> , 2019, 26, 33281-33293.	2.7	5
29	Insights into estrogenic activity removal using carbon nanotube electrochemical filter. <i>Science of the Total Environment</i> , 2019, 678, 448-456.	3.9	23
30	Development of aerobic granular sludge under tropical climate conditions: The key role of inoculum adaptation under reduced sludge washout for stable granulation. <i>Journal of Environmental Management</i> , 2019, 230, 168-182.	3.8	34
31	Assessing the performance and microbial community of hybrid moving bed and conventional membrane bioreactors treating municipal wastewater. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 716-729.	1.2	8
32	Removal of pharmaceutically active compounds from synthetic and real aqueous mixtures and simultaneous disinfection by supported TiO ₂ /UV-A, H ₂ O ₂ /UV-A, and TiO ₂ /H ₂ O ₂ /UV-A processes. <i>Environmental Science and Pollution Research</i> , 2019, 26, 4288-4299.	2.7	26
33	Influência da idade do lodo na colmatação das membranas em um biorreator a membrana tratando esgoto sanitário. <i>Engenharia Sanitaria E Ambiental</i> , 2019, 24, 157-168.	0.1	2
34	Hydrogen and methane production in a two-stage anaerobic digestion system by co-digestion of food waste, sewage sludge and glycerol. <i>Waste Management</i> , 2018, 76, 339-349.	3.7	124
35	Experimental study and kinetic modelling of the enzymatic degradation of the azo dye Crystal Ponceau 6R by turnip (<i>Brassica rapa</i>) peroxidase. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 610-615.	3.3	19
36	Water contamination by endocrine disruptors: Impacts, microbiological aspects and trends for environmental protection. <i>Environmental Pollution</i> , 2018, 235, 546-559.	3.7	164

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37	New Processes for Biological Nitrogen Removal. , 2018, , 143-203.		1
38	Molecular Biology Techniques Applied to the Study of Microbial Diversity of Wastewater Treatment Systems. , 2018, , 205-299.		5
39	Moving Bed Biofilm Reactor (MBBR). , 2018, , 37-74.		18
40	Aerobic Granular Sludge Technology. , 2018, , 75-142.		8
41	Pharmaceutical compounds electrotreatment by Pt anodes and effect on synaptic function. Energy Procedia, 2018, 153, 461-465.	1.8	5
42	Comparative study on treatment performance, membrane fouling, and microbial community profile between conventional and hybrid sequencing batch membrane bioreactors for municipal wastewater treatment. Environmental Science and Pollution Research, 2018, 25, 32767-32782.	2.7	10
43	Modeling and dynamic simulation of a two-stage pre-denitrification MBBR system under increasing organic loading rates. Bioprocess and Biosystems Engineering, 2018, 41, 1573-1587.	1.7	1
44	Fluorene oxidation by solar-driven photo-Fenton process: toward mild pH conditions. Environmental Science and Pollution Research, 2018, 25, 27808-27818.	2.7	5
45	Strategies to re-establish stable granulation after filamentous outgrowth: Insights from lab-scale experiments. Chemical Engineering Research and Design, 2018, 117, 606-615.	2.7	18
46	Advanced Biological Processes for Wastewater Treatment. , 2018, , .		16
47	Treatment of a simulated textile wastewater containing the Reactive Orange 16 azo dye by a combination of ozonation and moving-bed biofilm reactor: evaluating the performance, toxicity, and oxidation by-products. Environmental Science and Pollution Research, 2017, 24, 6307-6316.	2.7	70
48	Ammonium removal from high-salinity oilfield-produced water: assessing the microbial community dynamics at increasing salt concentrations. Applied Microbiology and Biotechnology, 2017, 101, 859-870.	1.7	25
49	Nitrification of Petroleum Extraction Produced Water: Salt Concentrations and Nitrifying Activity. Environmental Engineering Science, 2017, 34, 258-264.	0.8	3
50	Revealing the bacterial profile of an anoxic-aerobic moving-bed biofilm reactor system treating a chemical industry wastewater. International Biodeterioration and Biodegradation, 2017, 120, 152-160.	1.9	32
51	Hydrogen production through anaerobic co-digestion of food waste and crude glycerol at mesophilic conditions. International Journal of Hydrogen Energy, 2017, 42, 22720-22729.	3.8	49
52	Impact of phenol shock loads on the performance of a combined activated sludge-moving bed biofilm reactor system. International Biodeterioration and Biodegradation, 2017, 123, 146-155.	1.9	28
53	Effect of solids retention time on nitrogen and phosphorus removal from municipal wastewater in a sequencing batch membrane bioreactor. Environmental Technology (United Kingdom), 2017, 38, 806-815.	1.2	11
54	Interpreting the effect of increasing COD loading rates on the performance of a pre-anoxic MBBR system: implications on the attached and suspended biomass dynamics and nitrificationâ€denitrification activity. Bioprocess and Biosystems Engineering, 2016, 39, 945-957.	1.7	17

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55	MBBR followed by microfiltration and reverse osmosis as a compact alternative for advanced treatment of a pesticide-producing industry wastewater towards reuse. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 1657-1667.	0.9	2
56	Effect of increasing organic loading rates on the performance of moving-bed biofilm reactors filled with different support media: Assessing the activity of suspended and attached biomass fractions. <i>Chemical Engineering Research and Design</i> , 2016, 100, 131-141.	2.7	81
57	Integration of biofiltration and advanced oxidation processes for tertiary treatment of an oil refinery wastewater aiming at water reuse. <i>Environmental Science and Pollution Research</i> , 2016, 23, 9730-9741.	2.7	27
58	Combined organic matter and nitrogen removal from a chemical industry wastewater in a two-stage MBBR system. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 96-107.	1.2	17
59	Tracking the dynamics of heterotrophs and nitrifiers in moving-bed biofilm reactors operated at different COD/N ratios. <i>Bioresource Technology</i> , 2015, 192, 131-141.	4.8	39
60	Treatment of petroleum refinery wastewater containing heavily polluting substances in an aerobic submerged fixed-bed reactor. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 2052-2059.	1.2	38
61	Evaluating the main and side effects of high salinity on aerobic granular sludge. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 1339-1348.	1.7	133
62	Measuring biomass specific ammonium, nitrite and phosphate uptake rates in aerobic granular sludge. <i>Chemosphere</i> , 2012, 89, 1161-1168.	4.2	46
63	Temperature and salt effects on settling velocity in granular sludge technology. <i>Water Research</i> , 2012, 46, 5445-5451.	5.3	73
64	The contribution of exopolysaccharides induced struvites accumulation to ammonium adsorption in aerobic granular sludge. <i>Water Research</i> , 2012, 46, 986-992.	5.3	57
65	Simultaneous nitrogen and phosphate removal in aerobic granular sludge reactors operated at different temperatures. <i>Water Research</i> , 2012, 46, 3805-3816.	5.3	246
66	Temperature and salt effects on settling velocity in granular sludge technology. <i>Water Research</i> , 2012, 46, 3897-3902.	5.3	47
67	Effect of Different Operational Conditions on Biofilm Development, Nitrification, and Nitrifying Microbial Population in Moving-Bed Biofilm Reactors. <i>Environmental Science & Technology</i> , 2012, 46, 1546-1555.	4.6	174
68	Improved phosphate removal by selective sludge discharge in aerobic granular sludge reactors. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1919-1928.	1.7	74
69	Unravelling the reasons for disproportion in the ratio of AOB and NOB in aerobic granular sludge. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 1657-1666.	1.7	142
70	Effect of different salt adaptation strategies on the microbial diversity, activity, and settling of nitrifying sludge in sequencing batch reactors. <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 1281-1294.	1.7	148
71	Effect of Elevated Salt Concentrations on the Aerobic Granular Sludge Process: Linking Microbial Activity with Microbial Community Structure. <i>Applied and Environmental Microbiology</i> , 2011, 77, 7942-7953.	1.4	150
72	Selective sludge removal in a segregated aerobic granular biomass system as a strategy to control PAO's GAO competition at high temperatures. <i>Water Research</i> , 2011, 45, 3291-3299.	5.3	148

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73	Ammonium adsorption in aerobic granular sludge, activated sludge and anammox granules. Water Research, 2011, 45, 5257-5265.	5.3	105
74	Nitrification of industrial and domestic saline wastewaters in moving bed biofilm reactor and sequencing batch reactor. Journal of Hazardous Materials, 2011, 185, 242-248.	6.5	109
75	Avaliação da produção de hidrogênio a partir da codigestão anaeróbia de resíduos sólidos orgânicos e glicerol residual da produção de biodiesel. Quimica Nova, 0, , .	0.3	1