

# Joao Bassin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5054790/publications.pdf>

Version: 2024-02-01

75  
papers

3,007  
citations

186265

28  
h-index

168389

53  
g-index

78  
all docs

78  
docs citations

78  
times ranked

2871  
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous nitrogen and phosphate removal in aerobic granular sludge reactors operated at different temperatures. <i>Water Research</i> , 2012, 46, 3805-3816.	11.3	246
2	Effect of Different Operational Conditions on Biofilm Development, Nitrification, and Nitrifying Microbial Population in Moving-Bed Biofilm Reactors. <i>Environmental Science &amp; Technology</i> , 2012, 46, 1546-1555.	10.0	174
3	Water contamination by endocrine disruptors: Impacts, microbiological aspects and trends for environmental protection. <i>Environmental Pollution</i> , 2018, 235, 546-559.	7.5	164
4	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.	3.1	150
5	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.	11.3	148
6	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.	3.6	148
7	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.	3.6	142
8	Evaluating the main and side effects of high salinity on aerobic granular sludge. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 1339-1348.	3.6	133
9	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.	7.4	124
10	Nitrification of industrial and domestic saline wastewaters in moving bed biofilm reactor and sequencing batch reactor. <i>Journal of Hazardous Materials</i> , 2011, 185, 242-248.	12.4	109
11	Ammonium adsorption in aerobic granular sludge, activated sludge and anammox granules. <i>Water Research</i> , 2011, 45, 5257-5265.	11.3	105
12	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.	5.6	81
13	Improved phosphate removal by selective sludge discharge in aerobic granular sludge reactors. <i>Biotechnology and Bioengineering</i> , 2012, 109, 1919-1928.	3.3	74
14	Temperature and salt effects on settling velocity in granular sludge technology. <i>Water Research</i> , 2012, 46, 5445-5451.	11.3	73
15	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. <i>Environmental Science and Pollution Research</i> , 2017, 24, 6307-6316.	5.3	70
16	The contribution of exopolysaccharides induced struvites accumulation to ammonium adsorption in aerobic granular sludge. <i>Water Research</i> , 2012, 46, 986-992.	11.3	57
17	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.	3.9	51
18	Hydrogen production through anaerobic co-digestion of food waste and crude glycerol at mesophilic conditions. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 22720-22729.	7.1	49

#	ARTICLE	IF	CITATIONS
19	Temperature and salt effects on settling velocity in granular sludge technology. <i>Water Research</i> , 2012, 46, 3897-3902.	11.3	47
20	Measuring biomass specific ammonium, nitrite and phosphate uptake rates in aerobic granular sludge. <i>Chemosphere</i> , 2012, 89, 1161-1168.	8.2	46
21	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.	9.6	39
22	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.	2.2	38
23	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.	7.8	37
24	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.	7.8	34
25	Tube-in-tube membrane reactor for heterogeneous TiO <sub>2</sub> photocatalysis with radial addition of H <sub>2</sub> O <sub>2</sub> . <i>Chemical Engineering Journal</i> , 2020, 395, 124998.	12.7	33
26	Revealing the bacterial profile of an anoxic-aerobic moving-bed biofilm reactor system treating a chemical industry wastewater. <i>International Biodeterioration and Biodegradation</i> , 2017, 120, 152-160.	3.9	32
27	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.	6.7	31
28	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.	5.6	30
29	Impact of phenol shock loads on the performance of a combined activated sludge-moving bed biofilm reactor system. <i>International Biodeterioration and Biodegradation</i> , 2017, 123, 146-155.	3.9	28
30	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.	5.3	27
31	Removal of pharmaceutically active compounds from synthetic and real aqueous mixtures and simultaneous disinfection by supported TiO <sub>2</sub> /UV-A, H <sub>2</sub> O <sub>2</sub> /UV-A, and TiO <sub>2</sub> /H <sub>2</sub> O <sub>2</sub> /UV-A processes. <i>Environmental Science and Pollution Research</i> , 2019, 26, 4288-4299.	5.3	26
32	Ammonium removal from high-salinity oilfield-produced water: assessing the microbial community dynamics at increasing salt concentrations. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 859-870.	3.6	25
33	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.	5.7	24
34	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.	3.5	24
35	Insights into estrogenic activity removal using carbon nanotube electrochemical filter. <i>Science of the Total Environment</i> , 2019, 678, 448-456.	8.0	23
36	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.	7.5	23

#	ARTICLE	IF	CITATIONS
37	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.	8.0	21
38	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.	6.7	19
39	Moving Bed Biofilm Reactor (MBBR). , 2018, , 37-74.		18
40	Strategies to re-establish stable granulation after filamentous outgrowth: Insights from lab-scale experiments. <i>Chemical Engineering Research and Design</i> , 2018, 117, 606-615.	5.6	18
41	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.	5.6	18
42	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. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 945-957.	3.4	17
43	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.	2.2	17
44	Advanced Biological Processes for Wastewater Treatment. , 2018, , .		16
45	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.	5.7	14
46	Investigating the most appropriate methods for attached solids determination in moving-bed biofilm reactors. <i>Bioprocess and Biosystems Engineering</i> , 2019, 42, 1867-1878.	3.4	12
47	Effect of solids retention time on nitrogen and phosphorus removal from municipal wastewater in a sequencing batch membrane bioreactor. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 806-815.	2.2	11
48	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.	1.3	11
49	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.	6.7	11
50	Comparative study on treatment performance, membrane fouling, and microbial community profile between conventional and hybrid sequencing batch membrane bioreactors for municipal wastewater treatment. <i>Environmental Science and Pollution Research</i> , 2018, 25, 32767-32782.	5.3	10
51	Electrochemical oxidation of paraben compounds and the effects of byproducts on neuronal activity. <i>Energy Reports</i> , 2020, 6, 903-908.	5.1	10
52	Treatment of a slaughterhouse wastewater by anoxicâ€aerobic biological reactors followed by UVâ€ disinfection and microalgae bioremediation. <i>Water Environment Research</i> , 2021, 93, 409-420.	2.7	10
53	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.	8.8	10
54	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.	7.8	9

#	ARTICLE	IF	CITATIONS
55	Aerobic Granular Sludge Technology. , 2018, , 75-142.		8
56	Assessing the performance and microbial community of hybrid moving bed and conventional membrane bioreactors treating municipal wastewater. Environmental Technology (United Kingdom), 2019, 40, 716-729.	2.2	8
57	Electrochemical degradation of psychotropic pharmaceutical compounds from municipal wastewater and neurotoxicity evaluations. Environmental Science and Pollution Research, 2021, 28, 23958-23974.	5.3	8
58	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. Biochemical Engineering Journal, 2021, 176, 108221.	3.6	8
59	Treatment of saline wastewater amended with endocrine disruptors by aerobic granular sludge: Assessing performance and microbial community dynamics. Journal of Environmental Chemical Engineering, 2022, 10, 107272.	6.7	7
60	Upgrade of a suspended biomass reactor with limited nitrification to a biofilm system: Addressing critical parameters and performance in different reactor configurations. Biochemical Engineering Journal, 2021, 170, 107987.	3.6	6
61	Molecular Biology Techniques Applied to the Study of Microbial Diversity of Wastewater Treatment Systems. , 2018, , 205-299.		5
62	Pharmaceutical compounds electrotreatment by Pt anodes and effect on synaptic function. Energy Procedia, 2018, 153, 461-465.	1.8	5
63	Fluorene oxidation by solar-driven photo-Fenton process: toward mild pH conditions. Environmental Science and Pollution Research, 2018, 25, 27808-27818.	5.3	5
64	Removal of bromate from drinking water using a heterogeneous photocatalytic mili-reactor: impact of the reactor material and water matrix. Environmental Science and Pollution Research, 2019, 26, 33281-33293.	5.3	5
65	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. Science of the Total Environment, 2020, 743, 140428.	8.0	4
66	Treatment of real domestic sewage in a pilot-scale aerobic granular sludge reactor: Assessing start-up and operational control. Water Environment Research, 2021, 93, 896-905.	2.7	4
67	Nitrification of Petroleum Extraction Produced Water: Salt Concentrations and Nitrifying Activity. Environmental Engineering Science, 2017, 34, 258-264.	1.6	3
68	MBBR followed by microfiltration and reverse osmosis as a compact alternative for advanced treatment of a pesticide-producing industry wastewater towards reuse. Canadian Journal of Chemical Engineering, 2016, 94, 1657-1667.	1.7	2
69	Influência da idade do lodo na colmatação das membranas em um biorreator a membrana tratando esgoto sanitário. Engenharia Sanitaria E Ambiental, 2019, 24, 157-168.	0.5	2
70	New Processes for Biological Nitrogen Removal. , 2018, , 143-203.		1
71	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.	3.4	1
72	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

#	ARTICLE	IF	CITATIONS
73	Removal of Dyes from Wastewaters in Moving Bed Biofilm Reactors: A Review of Biodegradation Pathways and Treatment Performance. Sustainable Textiles, 2022, , 227-262.	0.7	1
74	Pesticides removal from aqueous streams through anaerobic and aerobic biological treatment processes. , 2022, , 383-418.		1
75	Processes and technologies for water reuse in the industry. , 2022, , 3-54.		0