

Alejandro Gonzalez-Martinez

List of Publications by Year in descending order

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Version: 2024-02-01

79
papers

2,353
citations

196777

29
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274796

44
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80
all docs

80
docs citations

80
times ranked

2809
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	Anammox Process: 7. , 2021, , 124-143.		0
9	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
10	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
11	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
12	Biogas production and microbial community structure in a stable two-stage anaerobic digester. <i>AIChE Journal</i> , 2020, 66, e16807.	1.8	9
13	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
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	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
16	Low-Temperature Adapted Nitrifying Microbial Communities of Finnish Wastewater Treatment Systems. <i>Water (Switzerland)</i> , 2020, 12, 2450.	1.2	11
17	Decreased natural organic matter in water distribution decreases nitrite formation in non-disinfected conditions, via enhanced nitrite oxidation. <i>Water Research X</i> , 2020, 9, 100069.	2.8	7
18	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

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19	Abundance of total and metabolically active Candidatus Microthrix and fungal populations in three full-scale wastewater treatment plants. <i>Chemosphere</i> , 2019, 232, 26-34.	4.2	27
20	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
21	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
22	Effect of sulfadiazine and trimethoprim on activated sludge performance and microbial community dynamics in laboratory-scale membrane bioreactors and sequencing batch reactors at 8°C. <i>Biotechnology Progress</i> , 2019, 35, e2708.	1.3	8
23	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
24	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
25	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
26	New concepts in anammox processes for wastewater nitrogen removal: recent advances and future prospects. <i>FEMS Microbiology Letters</i> , 2018, 365, .	0.7	45
27	Performance and bacterial community structure in three autotrophic submerged biofilters operated under different conditions. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2429-2439.	1.6	8
28	New concepts in anaerobic digestion processes: recent advances and biological aspects. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 5065-5076.	1.7	75
29	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
30	Microalgae-Bacteria Consortia for the Removal of Phenolic Compounds from Industrial Wastewaters. <i>Nanotechnology in the Life Sciences</i> , 2018, , 135-184.	0.4	4
31	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
32	Application of microbial fuel cell technology for wastewater treatment and electricity generation under Nordic countries climate conditions: Study of performance and microbial communities. <i>Bioresource Technology</i> , 2018, 270, 1-10.	4.8	16
33	Linking the Effect of Antibiotics on Partial-Nitrification Biofilters: Performance, Microbial Communities and Microbial Activities. <i>Frontiers in Microbiology</i> , 2018, 9, 354.	1.5	35
34	Assessing the abundance of fungal populations in a full-scale membrane bioreactor (MBR) treating urban wastewater by using quantitative PCR (qPCR). <i>Journal of Environmental Management</i> , 2018, 223, 1-8.	3.8	26
35	Full-scale photobioreactor for biotreatment of olive washing water: Structure and diversity of the microalgae-bacteria consortium. <i>Bioresource Technology</i> , 2017, 238, 389-398.	4.8	34
36	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

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37	Performance and bacterial community structure of a granular autotrophic nitrogen removal bioreactor amended with high antibiotic concentrations. <i>Chemical Engineering Journal</i> , 2017, 325, 257-269.	6.6	52
38	Linkage of microbial kinetics and bacterial community structure of M _{BR} and hybrid M _{BR} –MBR systems to treat salinity-amended urban wastewater. <i>Biotechnology Progress</i> , 2017, 33, 1483-1495.	1.3	16
39	Characterization of a novel complex coacervate based on whey protein isolate-tamarind seed mucilage. <i>Food Hydrocolloids</i> , 2017, 72, 115-126.	5.6	69
40	Biominalisation of carbonate and sulphate by the halophilic bacterium <i>Halomonas maura</i> at different manganese concentrations. <i>Extremophiles</i> , 2017, 21, 1049-1056.	0.9	14
41	Bacterial diversity and population shifts driven by spotlight wastewater micropollutants in low-temperature highly nitrifying activated sludge. <i>Science of the Total Environment</i> , 2017, 605-606, 291-299.	3.9	28
42	16S rRNA gene-based characterization of bacteria potentially associated with phosphate and carbonate precipitation from a granular autotrophic nitrogen removal bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 817-829.	1.7	14
43	Biotreatment of industrial olive washing water by synergetic association of microalgal-bacterial consortia in a photobioreactor. <i>Environmental Science and Pollution Research</i> , 2017, 24, 527-538.	2.7	32
44	Microbial Kinetics and Enzymatic Activities in Hybrid Moving-Bed Biofilm Reactor–Membrane Bioreactor Systems. <i>Chemical Engineering and Technology</i> , 2016, 39, 1067-1076.	0.9	7
45	Comparison of bacterial communities of conventional and A-stage activated sludge systems. <i>Scientific Reports</i> , 2016, 6, 18786.	1.6	79
46	Impact of methionine on a partial-nitrification biofilter. <i>Environmental Science and Pollution Research</i> , 2016, 23, 6651-6660.	2.7	11
47	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
48	Chemical Synthesis and Self-Assembly of a Ladderane Phospholipid. <i>Journal of the American Chemical Society</i> , 2016, 138, 15845-15848.	6.6	78
49	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
50	Detection of comammox bacteria in full-scale wastewater treatment bioreactors using tag-454-pyrosequencing. <i>Environmental Science and Pollution Research</i> , 2016, 23, 25501-25511.	2.7	80
51	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
52	New concepts of microbial treatment processes for the nitrogen removal: effect of protein and amino acids degradation. <i>Amino Acids</i> , 2016, 48, 1123-1130.	1.2	12
53	Distribution and microbial community structure analysis of a single-stage partial nitrification/anammox granular sludge bioreactor operating at low temperature. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 2281-2291.	1.2	28
54	Archaeal and bacterial community dynamics and bioprocess performance of a bench-scale two-stage anaerobic digester. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 6013-6033.	1.7	50

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55	Influence of salinity on fungal communities in a submerged fixed bed bioreactor for wastewater treatment. <i>Chemical Engineering Journal</i> , 2016, 285, 562-572.	6.6	29
56	Bioprecipitation of Calcium Carbonate Crystals by Bacteria Isolated from Saline Environments Grown in Culture Media Amended with Seawater and Real Brine. <i>BioMed Research International</i> , 2015, 2015, 1-12.	0.9	46
57	454-Pyrosequencing Analysis of Bacterial Communities from Autotrophic Nitrogen Removal Bioreactors Utilizing Universal Primers: Effect of Annealing Temperature. <i>BioMed Research International</i> , 2015, 2015, 1-12.	0.9	14
58	Microbial community analysis of a full-scale DEMON bioreactor. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 499-508.	1.7	49
59	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
60	Archaeal populations in full-scale autotrophic nitrogen removal bioreactors operated with different technologies: CANON, DEMON and partial nitrification/anammox. <i>Chemical Engineering Journal</i> , 2015, 277, 194-201.	6.6	30
61	Two-step nitrification in a pure moving bed biofilm reactor-membrane bioreactor for wastewater treatment: nitrifying and denitrifying microbial populations and kinetic modeling. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 10333-10343.	1.7	27
62	Comparison of bacterial diversity in full scale anammox bioreactors operated under different conditions. <i>Biotechnology Progress</i> , 2015, 31, 1464-1472.	1.3	64
63	Bacterial community structure of a lab-scale anammox membrane bioreactor. <i>Biotechnology Progress</i> , 2015, 31, 186-193.	1.3	40
64	Kinetic modeling and microbiological study of two-step nitrification in a membrane bioreactor and hybrid moving bed biofilm reactor-membrane bioreactor for wastewater treatment. <i>Chemical Engineering Journal</i> , 2015, 259, 692-702.	6.6	101
65	Precipitation of Phosphate Minerals by Microorganisms Isolated from a Fixed-Biofilm Reactor Used for the Treatment of Domestic Wastewater. <i>International Journal of Environmental Research and Public Health</i> , 2014, 11, 3689-3704.	1.2	20
66	Feasibility Study of a Simple and Low-Cost Device for Monitoring Trihalomethanes Presence in Water Supply Systems Based on Statistical Models. <i>Water (Switzerland)</i> , 2014, 6, 3590-3602.	1.2	3
67	The Effect of Influent Characteristics and Operational Conditions over the Performance and Microbial Community Structure of Partial Nitrification Reactors. <i>Water (Switzerland)</i> , 2014, 6, 1905-1924.	1.2	44
68	Study of nitrifying microbial communities in a partial-nitrification bioreactor. <i>Ecological Engineering</i> , 2014, 64, 443-450.	1.6	27
69	Effect of ciprofloxacin antibiotic on the partial-nitrification process and bacterial community structure of a submerged biofilter. <i>Science of the Total Environment</i> , 2014, 476-477, 276-287.	3.9	88
70	Precipitation of carbonates by bacteria isolated from wastewater samples collected in a conventional wastewater treatment plant. <i>International Journal of Environmental Science and Technology</i> , 2013, 10, 141-150.	1.8	26
71	Biological and technical study of a partial-SHARON reactor at laboratory scale: effect of hydraulic retention time. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 173-184.	1.7	34
72	Archaeal Diversity in Biofilm Technologies Applied to Treat Urban and Industrial Wastewater: Recent Advances and Future Prospects. <i>International Journal of Molecular Sciences</i> , 2013, 14, 18572-18598.	1.8	32

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73	Influence of filling ratio and carrier type on organic matter removal in a moving bed biofilm reactor with pretreatment of electrocoagulation in wastewater treatment. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012, 47, 1759-1767.	0.9	16
74	Comparative analysis of the bacterial diversity in a lab-scale moving bed biofilm reactor (MBBR) applied to treat urban wastewater under different operational conditions. <i>Bioresource Technology</i> , 2012, 121, 119-126.	4.8	81
75	Effect of aeration on steady-state conditions in non- and partially aerated low-loaded biofilter. <i>International Journal of Environmental Science and Technology</i> , 2012, 9, 395-408.	1.8	9
76	Bacterial community structure and enzyme activities in a membrane bioreactor (MBR) using pure oxygen as an aeration source. <i>Bioresource Technology</i> , 2012, 103, 87-94.	4.8	49
77	Surface modification of polypropylene membrane by acrylate epoxidized soybean oil to be used in water treatment. <i>Journal of Applied Polymer Science</i> , 2012, 124, E147.	1.3	8
78	Treatment of Effluents Polluted by Nitrogen with New Biological Technologies Based on Autotrophic Nitrification-Denitrification Processes. <i>Recent Patents on Biotechnology</i> , 2011, 5, 74-84.	0.4	26
79	A model for predicting THM presence in networks of water supply systems. <i>WIT Transactions on the Built Environment</i> , 2011, , .	0.0	1