

# Alejandro Gonzalez-Martinez

## List of Publications by Year in descending order

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79  
papers

2,353  
citations

172457

29  
h-index

243625

44  
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80  
all docs

80  
docs citations

80  
times ranked

2516  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological removal processes in aerobic granular sludge for treating synthetic hospital wastewater: Effect of temperature. Journal of Water Process Engineering, 2022, 47, 102691.	5.6	12
2	Novel application of aerobic granular biofilm systems for treating nitrate-polluted groundwater at low temperature: Microbial community and performance. Journal of Environmental Chemical Engineering, 2022, 10, 107818.	6.7	7
3	Effects of sulphur amino acids on the size and structure of microbial communities of aerobic granular sludge bioreactors. Amino Acids, 2022, 54, 1403-1419.	2.7	6
4	Biological nitrate removal from groundwater by an aerobic granular technology to supply drinking water at pilot-scale. Journal of Water Process Engineering, 2021, 40, 101786.	5.6	19
5	Evaluating the nitrogen-contaminated groundwater treatment by a denitrifying granular sludge bioreactor: effect of organic matter loading. Environmental Science and Pollution Research, 2021, 28, 41351-41364.	5.3	9
6	Total and Metabolically Active Microbial Community of Aerobic Granular Sludge Systems Operated in Sequential Batch Reactors: Effect of Pharmaceutical Compounds. Toxics, 2021, 9, 93.	3.7	8
7	Groundwater Nitrate Removal Performance of Selected Pseudomonas Strains Carrying nosZ Gene in Aerobic Granular Sequential Batch Reactors. Water (Switzerland), 2021, 13, 1119.	2.7	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. Water (Switzerland), 2021, 13, 1443.	2.7	15
10	Performance and microbial community structure of a full-scale ANITATMMox bioreactor for treating reject water located in Finland. Chemosphere, 2021, 271, 129526.	8.2	9
11	New Advances in Aerobic Granular Sludge Technology Using Continuous Flow Reactors: Engineering and Microbiological Aspects. Water (Switzerland), 2021, 13, 1792.	2.7	29
12	Biogas production and microbial community structure in a stable two-stage anaerobic digester. AIChE Journal, 2020, 66, e16807.	3.6	9
13	Polar Arctic Circle biomass enhances performance and stability of aerobic granular sludge systems operated under different temperatures. Bioresource Technology, 2020, 300, 122650.	9.6	24
14	Performance and microbial community structure of aerobic granular bioreactors at different operational temperature. Journal of Water Process Engineering, 2020, 33, 101110.	5.6	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. International Biodeterioration and Biodegradation, 2020, 146, 104830.	3.9	31
16	Low-Temperature Adapted Nitrifying Microbial Communities of Finnish Wastewater Treatment Systems. Water (Switzerland), 2020, 12, 2450.	2.7	11
17	Decreased natural organic matter in water distribution decreases nitrite formation in non-disinfected conditions, via enhanced nitrite oxidation. Water Research X, 2020, 9, 100069.	6.1	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. Water (Switzerland), 2020, 12, 2316.	2.7	2

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19	Abundance of total and metabolically active <i>Candidatus Microthrix</i> and fungal populations in three full-scale wastewater treatment plants. <i>Chemosphere</i> , 2019, 232, 26-34.	8.2	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.	12.4	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.	8.2	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.	2.6	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.	8.2	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.	9.6	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.	3.3	57
26	New concepts in anammox processes for wastewater nitrogen removal: recent advances and future prospects. <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	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.	3.2	8
28	New concepts in anaerobic digestion processes: recent advances and biological aspects. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 5065-5076.	3.6	75
29	Quantitative and qualitative studies of microorganisms involved in full-scale autotrophic nitrogen removal performance. <i>AIChE Journal</i> , 2018, 64, 457-467.	3.6	9
30	Microalgae-Bacteria Consortia for the Removal of Phenolic Compounds from Industrial Wastewaters. <i>Nanotechnology in the Life Sciences</i> , 2018, , 135-184.	0.6	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.	2.7	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.	9.6	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.	3.5	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.	7.8	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.	9.6	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.	9.6	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.	12.7	52
38	Linkage of microbial kinetics and bacterial community structure of M <sub>BR</sub> and hybrid M <sub>BR</sub> –MBR systems to treat salinity-amended urban wastewater. <i>Biotechnology Progress</i> , 2017, 33, 1483-1495.	2.6	16
39	Characterization of a novel complex coacervate based on whey protein isolate-tamarind seed mucilage. <i>Food Hydrocolloids</i> , 2017, 72, 115-126.	10.7	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.	2.3	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.	8.0	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.	3.6	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.	5.3	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.	1.5	7
45	Comparison of bacterial communities of conventional and A-stage activated sludge systems. <i>Scientific Reports</i> , 2016, 6, 18786.	3.3	79
46	Impact of methionine on a partial-nitrification biofilter. <i>Environmental Science and Pollution Research</i> , 2016, 23, 6651-6660.	5.3	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.	2.6	5
48	Chemical Synthesis and Self-Assembly of a Ladderane Phospholipid. <i>Journal of the American Chemical Society</i> , 2016, 138, 15845-15848.	13.7	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.	3.9	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.	5.3	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.	12.7	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.	2.7	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.	2.2	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.	3.6	50

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55	Influence of salinity on fungal communities in a submerged fixed bed bioreactor for wastewater treatment. Chemical Engineering Journal, 2016, 285, 562-572.	12.7	29
56	Bioprecipitation of Calcium Carbonate Crystals by Bacteria Isolated from Saline Environments Grown in Culture Media Amended with Seawater and Real Brine. BioMed Research International, 2015, 2015, 1-12.	1.9	46
57	454-Pyrosequencing Analysis of Bacterial Communities from Autotrophic Nitrogen Removal Bioreactors Utilizing Universal Primers: Effect of Annealing Temperature. BioMed Research International, 2015, 2015, 1-12.	1.9	14
58	Microbial community analysis of a full-scale DEMON bioreactor. Bioprocess and Biosystems Engineering, 2015, 38, 499-508.	3.4	49
59	Isolation and metagenomic characterization of bacteria associated with calcium carbonate and struvite precipitation in a pure moving bed biofilm reactor-membrane bioreactor. Biofouling, 2015, 31, 333-348.	2.2	22
60	Archaeal populations in full-scale autotrophic nitrogen removal bioreactors operated with different technologies: CANON, DEMON and partial nitrification/anammox. Chemical Engineering Journal, 2015, 277, 194-201.	12.7	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. Applied Microbiology and Biotechnology, 2015, 99, 10333-10343.	3.6	27
62	Comparison of bacterial diversity in full scale anammox bioreactors operated under different conditions. Biotechnology Progress, 2015, 31, 1464-1472.	2.6	64
63	Bacterial community structure of a lab-scale anammox membrane bioreactor. Biotechnology Progress, 2015, 31, 186-193.	2.6	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. Chemical Engineering Journal, 2015, 259, 692-702.	12.7	101
65	Precipitation of Phosphate Minerals by Microorganisms Isolated from a Fixed-Biofilm Reactor Used for the Treatment of Domestic Wastewater. International Journal of Environmental Research and Public Health, 2014, 11, 3689-3704.	2.6	20
66	Feasibility Study of a Simple and Low-Cost Device for Monitoring Trihalomethanes Presence in Water Supply Systems Based on Statistical Models. Water (Switzerland), 2014, 6, 3590-3602.	2.7	3
67	The Effect of Influent Characteristics and Operational Conditions over the Performance and Microbial Community Structure of Partial Nitrification Reactors. Water (Switzerland), 2014, 6, 1905-1924.	2.7	44
68	Study of nitrifying microbial communities in a partial-nitrification bioreactor. Ecological Engineering, 2014, 64, 443-450.	3.6	27
69	Effect of ciprofloxacin antibiotic on the partial-nitrification process and bacterial community structure of a submerged biofilter. Science of the Total Environment, 2014, 476-477, 276-287.	8.0	88
70	Precipitation of carbonates by bacteria isolated from wastewater samples collected in a conventional wastewater treatment plant. International Journal of Environmental Science and Technology, 2013, 10, 141-150.	3.5	26
71	Biological and technical study of a partial-SHARON reactor at laboratory scale: effect of hydraulic retention time. Bioprocess and Biosystems Engineering, 2013, 36, 173-184.	3.4	34
72	Archaeal Diversity in Biofilm Technologies Applied to Treat Urban and Industrial Wastewater: Recent Advances and Future Prospects. International Journal of Molecular Sciences, 2013, 14, 18572-18598.	4.1	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. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 1759-1767.	1.7	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. Bioresource Technology, 2012, 121, 119-126.	9.6	81
75	Effect of aeration on steady-state conditions in non- and partially aerated low-loaded biofilter. International Journal of Environmental Science and Technology, 2012, 9, 395-408.	3.5	9
76	Bacterial community structure and enzyme activities in a membrane bioreactor (MBR) using pure oxygen as an aeration source. Bioresource Technology, 2012, 103, 87-94.	9.6	49
77	Surface modification of polypropylene membrane by acrylate epoxidized soybean oil to be used in water treatment. Journal of Applied Polymer Science, 2012, 124, E147.	2.6	8
78	Treatment of Effluents Polluted by Nitrogen with New Biological Technologies Based on Autotrophic Nitrification-Denitrification Processes. Recent Patents on Biotechnology, 2011, 5, 74-84.	0.8	26
79	A model for predicting THM presence in networks of water supply systems. WIT Transactions on the Built Environment, 2011, , .	0.0	1