

# Jess Gonzlez Lpez

## List of Publications by Citations

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109  
papers

2,081  
citations

27  
h-index

39  
g-index

112  
ext. papers

2,428  
ext. citations

5  
avg, IF

5.01  
L-index

#	Paper	IF	Citations
109	Influence of carbon source on nitrate removal of contaminated groundwater in a denitrifying submerged filter. <i>Journal of Hazardous Materials</i> , <b>2000</b> , 80, 69-80	12.8	158
108	Isolation and characterization of Azotobacter and Azospirillum strains from the sugarcane rhizosphere. <i>Plant and Soil</i> , <b>2005</b> , 270, 223-232	4.2	85
107	Plant Drought Tolerance Enhancement by Trehalose Production of Desiccation-Tolerant Microorganisms. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1577	5.7	62
106	Identification of bacteria isolated from an oligotrophic lake with pesticide removal capacities. <i>Ecotoxicology</i> , <b>2005</b> , 14, 299-312	2.9	60
105	Effects of culture conditions on the production of polyhydroxyalkanoates by Azotobacter chroococcum H23 in media containing a high concentration of alpechín (wastewater from olive oil mills) as primary carbon source. <i>Journal of Biotechnology</i> , <b>2002</b> , 97, 125-31	3.7	57
104	Response of autochthonous microbiota of diesel polluted soils to land-farming treatments. <i>Environmental Research</i> , <b>2015</b> , 137, 49-58	7.9	51
103	Microbial community dynamics in a submerged fixed bed bioreactor during biological treatment of saline urban wastewater. <i>Ecological Engineering</i> , <b>2014</b> , 71, 126-132	3.9	51
102	New concepts in anaerobic digestion processes: recent advances and biological aspects. <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 5065-5076	5.7	48
101	Community structure, population dynamics and diversity of fungi in a full-scale membrane bioreactor (MBR) for urban wastewater treatment. <i>Water Research</i> , <b>2016</b> , 105, 507-519	12.5	45
100	Effect of chlorpyrifos on soil microbial activity. <i>Environmental Toxicology and Chemistry</i> , <b>1995</b> , 14, 187-192	3.8	44
99	Influence of Rhizobium/Azotobacter and Rhizobium/Azospirillum combined inoculation on mineral composition of faba bean ( <i>Vicia faba</i> L.). <i>Biology and Fertility of Soils</i> , <b>1999</b> , 29, 165-169	6.1	42
98	Application of selected microbial consortia combined with inorganic and oleophilic fertilizers to recuperate oil-polluted soil using land farming technology. <i>Clean Technologies and Environmental Policy</i> , <b>2012</b> , 14, 719-726	4.3	41
97	Arthrobacter siccitolerans sp. nov., a highly desiccation-tolerant, xeroprotectant-producing strain isolated from dry soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2013</b> , 63, 4174-4180	2.2	40
96	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> , <b>2017</b> , 239, 180-189 <sup>11</sup>		39
95	Production of vitamins by Azospirillum brasilense in chemically-defined media. <i>Plant and Soil</i> , <b>1993</b> , 153, 97-101	4.2	39
94	TGGE analysis of the diversity of ammonia-oxidizing and denitrifying bacteria in submerged filter biofilms for the treatment of urban wastewater. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 72, 393-400	5.7	38
93	Liberation of amino acids by heterotrophic nitrogen fixing bacteria. <i>Amino Acids</i> , <b>2005</b> , 28, 363-7	3.5	36

92	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> , <b>2015</b> , 2015, 816102	3	35
91	Dominance of sphingomonads in a copper-exposed biofilm community for groundwater treatment. <i>Microbiology (United Kingdom)</i> , <b>2007</b> , 153, 325-337	2.9	35
90	Archaeal and bacterial community dynamics and bioprocess performance of a bench-scale two-stage anaerobic digester. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 6013-33	5.7	34
89	New concepts in anammox processes for wastewater nitrogen removal: recent advances and future prospects. <i>FEMS Microbiology Letters</i> , <b>2018</b> , 365,	2.9	33
88	Effect of the concentration of suspended solids on the enzymatic activities and biodiversity of a submerged membrane bioreactor for aerobic treatment of domestic wastewater. <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 73, 1441-51	5.7	33
87	Inoculation of a submerged filter for biological denitrification of nitrate polluted groundwater: a comparative study. <i>Journal of Hazardous Materials</i> , <b>2005</b> , 117, 141-7	12.8	32
86	Growth and denitrifying activity of <i>Xanthobacter autotrophicus</i> CECT 7064 in the presence of selected pesticides. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 71, 563-7	5.7	31
85	Distinct effect of nitrogen fertilisation and soil depth on nitrous oxide emissions and nitrifiers and denitrifiers abundance. <i>Biology and Fertility of Soils</i> , <b>2018</b> , 54, 829-840	6.1	30
84	Archaeal diversity in biofilm technologies applied to treat urban and industrial wastewater: recent advances and future prospects. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 18572-98	6.3	29
83	Production of B-group vitamins by two <i>Rhizobium</i> strains in chemically defined media. <i>Journal of Applied Microbiology</i> , <b>1999</b> , 86, 851-858	4.7	28
82	Evaluation of diclofenac biodegradation by the ascomycete fungus <i>Penicillium oxalicum</i> at flask and bench bioreactor scales. <i>Science of the Total Environment</i> , <b>2019</b> , 662, 607-614	10.2	27
81	Autochthonous microbial responses and hydrocarbons degradation in polluted soil during biostimulating treatments under different soil moisture. Assay in pilot plant. <i>International Biodeterioration and Biodegradation</i> , <b>2016</b> , 108, 91-98	4.8	24
80	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> , <b>2013</b> , 10, 141-150	3.3	24
79	The ratio of metabolically active versus total Mycolata populations triggers foaming in a membrane bioreactor. <i>Water Research</i> , <b>2016</b> , 92, 208-17	12.5	24
78	Full-scale photobioreactor for biotreatment of olive washing water: Structure and diversity of the microalgae-bacteria consortium. <i>Bioresource Technology</i> , <b>2017</b> , 238, 389-398	11	23
77	Biosafety Test for Plant Growth-Promoting Bacteria: Proposed Environmental and Human Safety Index (EHSI) Protocol. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 1514	5.7	23
76	Carbonate Precipitation of Bacterial Strains Isolated from Sediments and Seawater: Formation Mechanisms. <i>Geomicrobiology Journal</i> , <b>2013</b> , 30, 840-850	2.5	22
75	Treatment of diesel-polluted clay soil employing combined biostimulation in microcosms. <i>International Journal of Environmental Science and Technology</i> , <b>2012</b> , 9, 535-542	3.3	22

74	Effect of semi-permeable cover system on the bacterial diversity during sewage sludge composting. <i>Journal of Environmental Management</i> , <b>2018</b> , 215, 57-67	7.9	21
73	Protection of Pepper Plants from Drought by sp. 3J1 by Modulation of the Plant's Glutamine and Eketoglutarate Content: A Comparative Metabolomics Approach. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 284	5.7	21
72	Biotreatment of industrial olive washing water by synergetic association of microalgal-bacterial consortia in a photobioreactor. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 527-538	5.1	21
71	Growth and nitrite and nitrous oxide accumulation of <i>Paracoccus denitrificans</i> ATCC 19367 in the presence of selected pesticides. <i>Environmental Toxicology and Chemistry</i> , <b>2003</b> , 22, 1993-7	3.8	21
70	Pollutants degradation performance and microbial community structure of aerobic granular sludge systems using inoculums adapted at mild and low temperature. <i>Chemosphere</i> , <b>2018</b> , 204, 431-441	8.4	20
69	Production of poly- $\gamma$ -hydroxybutyrate by <i>Azotobacter chroococcum</i> H23 in chemically defined medium and alpechin medium. <i>Journal of Applied Bacteriology</i> , <b>1995</b> , 78, 413-418		19
68	Studies on the effects of the insecticides phorate and malathion on soil microorganisms. <i>Environmental Toxicology and Chemistry</i> , <b>1993</b> , 12, 1209-1214	3.8	19
67	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> , <b>2018</b> , 223, 1-8	7.9	18
66	Linking nitrous oxide emissions to population dynamics of nitrifying and denitrifying prokaryotes in four full-scale wastewater treatment plants. <i>Chemosphere</i> , <b>2018</b> , 200, 57-66	8.4	16
65	Reverse osmosis seawater desalination: current status of membrane systems. <i>Desalination and Water Treatment</i> , <b>2015</b> , 56, 849-861		15
64	Effects of alachlor and metolachlor on the biological activity of <i>Azospirillum brasilense</i> grown in chemically defined and dialyzed-soil media. <i>Environmental Toxicology and Chemistry</i> , <b>1991</b> , 10, 493-499	3.8	15
63	Abundance of total and metabolically active <i>Candidatus Microthrix</i> and fungal populations in three full-scale wastewater treatment plants. <i>Chemosphere</i> , <b>2019</b> , 232, 26-34	8.4	14
62	Effect of linear alkylbenzene sulfonates on the growth of aerobic heterotrophic cultivable bacteria isolated from an agricultural soil. <i>Ecotoxicology</i> , <b>2008</b> , 17, 549-57	2.9	14
61	A New Physiological Role for the DNA Molecule as a Protector against Drying Stress in Desiccation-Tolerant Microorganisms. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 2066	5.7	14
60	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> , <b>2014</b> , 11, 3689-704	4.6	13
59	PHAs production by strains belonging to <i>Massilia</i> genus from starch. <i>Starch/Staerke</i> , <b>2011</b> , 63, 236-240	2.3	13
58	Production of pantothenic acid and thiamine by <i>Azotobacter vinelandii</i> in a chemically defined medium and a dialysed soil medium. <i>Biology and Fertility of Soils</i> , <b>1996</b> , 22, 131-135	6.1	13
57	Adenine nucleotide contents and energy charge of <i>Azotobacter vinelandii</i> grown at low phosphate concentration. <i>Archives of Microbiology</i> , <b>1987</b> , 147, 354-357	3	13

56	Response of soil enzymes to Linear Alkylbenzene Sulfonate (LAS) addition in soil microcosms. <i>Soil Biology and Biochemistry</i> , <b>2009</b> , 41, 69-76	7.5	12
55	Effect of urease and nitrification inhibitors on ammonia volatilization and abundance of N-cycling genes in an agricultural soil. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2020</b> , 183, 99-109	2.3	12
54	Linking operation parameters and environmental variables to population dynamics of Mycolata in a membrane bioreactor. <i>Bioresource Technology</i> , <b>2015</b> , 180, 318-29	11	11
53	Denitrifying activity of Xanthobacter autotrophicus strains isolated from a submerged fixed-film reactor. <i>Applied Microbiology and Biotechnology</i> , <b>2005</b> , 68, 680-5	5.7	11
52	Production of amino acids by free-living heterotrophic nitrogen-fixing bacteria. <i>Amino Acids</i> , <b>1995</b> , 8, 15-21	3.5	11
51	Membrane fouling of a hybrid moving bed membrane bioreactor plant to treat real urban wastewater. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2016</b> , 104, 112-119	3.7	11
50	Anthracene drives sub-cellular proteome-wide alterations in the degradative system of <i>Penicillium oxalicum</i> . <i>Ecotoxicology and Environmental Safety</i> , <b>2018</b> , 159, 127-135	7	11
49	Genome Sequence of <i>Arthrobacter koreensis</i> 5J12A, a Plant Growth-Promoting and Desiccation-Tolerant Strain. <i>Genome Announcements</i> , <b>2015</b> , 3,		10
48	Genome Sequence of <i>Arthrobacter siccitolerans</i> 4J27, a Xeroprotectant-Producing Desiccation-Tolerant Microorganism. <i>Genome Announcements</i> , <b>2014</b> , 2,		10
47	Response of <i>Azospirillum brasilense</i> to the pesticides bromopropylate and methidathion on chemically defined media and dialysed-soil media. <i>Ecotoxicology</i> , <b>1998</b> , 7, 43-47	2.9	10
46	An extractive membrane biofilm reactor as alternative technology for the treatment of methyl tert-butyl ether contaminated water. <i>Biotechnology Progress</i> , <b>2016</b> , 32, 1238-1245	2.8	10
45	Effect of nitrogen fertilisation on nitrous oxide emission and the abundance of microbial nitrifiers and denitrifiers in the bulk and rhizosphere soil of <i>Solanum lycopersicum</i> and <i>Phaseolus vulgaris</i> . <i>Plant and Soil</i> , <b>2020</b> , 451, 107-120	4.2	10
44	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> , <b>2018</b> , 270, 1-10	11	10
43	Growth of <i>Azotobacter chroococcum</i> in chemically defined media containing p-hydroxybenzoic acid and protocatechuic acid. <i>Chemosphere</i> , <b>2005</b> , 59, 1361-5	8.4	9
42	Studies on the effects of the herbicide simazine on microflora of four agricultural soils. <i>Environmental Toxicology and Chemistry</i> , <b>1996</b> , 15, 1115-1118	3.8	9
41	A novel strategy for triacylglycerides and polyhydroxyalkanoates production using waste lipids. <i>Science of the Total Environment</i> , <b>2021</b> , 763, 142944	10.2	9
40	New concepts of microbial treatment processes for the nitrogen removal: effect of protein and amino acids degradation. <i>Amino Acids</i> , <b>2016</b> , 48, 1123-30	3.5	8
39	Effect of the injection of pure oxygen into a membrane bioreactor on the elimination of bisphenol A. <i>International Journal of Environmental Science and Technology</i> , <b>2014</b> , 11, 9-20	3.3	8

38	Response of soil microbiota to the addition of 3,3'-diaminobenzidine. <i>Applied Soil Ecology</i> , <b>2003</b> , 23, 119-126	8
37	Growth and nitrogenase activity of <i>Azotobacter vinelandii</i> in the presence of several phenolic acids. <i>Archives of Microbiology</i> , <b>1988</b> , 150, 113-116	3 8
36	Biomineralisation of carbonate and sulphate by the halophilic bacterium <i>Halomonas maura</i> at different manganese concentrations. <i>Extremophiles</i> , <b>2017</b> , 21, 1049-1056	3 7
35	The involvement of McpB chemoreceptor from <i>Pseudomonas aeruginosa</i> PAO1 in virulence. <i>Scientific Reports</i> , <b>2019</b> , 9, 13166	4.9 7
34	Biological and chemical analyses of a laboratory-scale biofilter for oxygenate bioremediation in simulated groundwater. <i>International Journal of Environmental Science and Technology</i> , <b>2014</b> , 11, 1517-1526	3.3 7
33	Effect of wastewater from olive oil mills on nitrogenase activity and growth of <i>Azotobacter chroococcum</i> . <i>Environmental Toxicology and Chemistry</i> , <b>1993</b> , 12, 225-230	3.8 7
32	New Advances in Aerobic Granular Sludge Technology Using Continuous Flow Reactors: Engineering and Microbiological Aspects. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 1792	3 7
31	Quantitative and qualitative studies of microorganisms involved in full-scale autotrophic nitrogen removal performance. <i>AIChE Journal</i> , <b>2018</b> , 64, 457-467	3.6 7
30	Biodegradation and Absorption Technology for Hydrocarbon-Polluted Water Treatment. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 841	2.6 6
29	Comparative analysis of microbial DNA extraction protocols for groundwater samples. <i>Analytical Biochemistry</i> , <b>2011</b> , 416, 240-2	3.1 6
28	Effect of chlorpyrifos on soil microbial activity <b>1995</b> , 14, 187	6
27	Social microbial inocula confer functional stability in a methyl tert-butyl ether extractive membrane biofilm bioreactor. <i>Environmental Pollution</i> , <b>2019</b> , 244, 855-860	9.3 6
26	Biogas production and microbial community structure in a stable-stage of a two-stage anaerobic digester. <i>AIChE Journal</i> , <b>2020</b> , 66, e16807	3.6 6
25	Genome Sequence of <i>Rhodococcus</i> sp. 4J2A2, a Desiccation-Tolerant Bacterium Involved in Biodegradation of Aromatic Hydrocarbons. <i>Genome Announcements</i> , <b>2015</b> , 3,	5
24	Genome Sequence of <i>Leucobacter</i> sp. 4J7B1, a Plant-Osmoprotectant Soil Microorganism. <i>Genome Announcements</i> , <b>2015</b> , 3,	5
23	sp. nov., able to grow on media supplemented with methyl -butyl ether (MTBE) and isolated from hydrocarbon-contaminated soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2016</b> , 66, 862-867	2.2 5
22	Metabolic Capability of <i>Penicillium oxalicum</i> to Transform High Concentrations of Anti-Inflammatory and Analgesic Drugs. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2479	2.6 5
21	Microbial Production of Ethanol From Sludge Derived From an Urban Wastewater Treatment Plant. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2634	5.7 5

20	Genome Sequence of Microbacterium sp. Strain 3J1, a Highly Desiccation-Tolerant Bacterium That Promotes Plant Growth. <i>Genome Announcements</i> , <b>2015</b> , 3,		4
19	Toxicity and biofilm-based selection for methyl tert-butyl ether bioremediation technology. <i>Water Science and Technology</i> , <b>2016</b> , 74, 2889-2897	2.2	4
18	Capacity of Hydrophobic Carriers to Form Biofilm for Removing Hydrocarbons from Polluted Industrial Wastewater: Assay in Microcosms. <i>Water, Air, and Soil Pollution</i> , <b>2018</b> , 229, 1	2.6	4
17	Pharmaceutical Pollution in Aquatic Environments: A Concise Review of Environmental Impacts and Bioremediation Systems.. <i>Frontiers in Microbiology</i> , <b>2022</b> , 13, 869332	5.7	4
16	Effect of variable salinity wastewater on performance and kinetics of membrane-based bioreactors. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2019</b> , 94, 3236-3250	3.5	3
15	Effect of some herbicides on the production of lysine by <i>Azotobacter chroococcum</i> . <i>Amino Acids</i> , <b>1999</b> , 17, 165-73	3.5	3
14	Production index: A new index to evaluate EPSs as surfactants and bioemulsifiers applied to <i>Halomonas variabilis</i> strain W10 for hydrocarbon bioremediation. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 175, 66-73	7	2
13	Draft Genome Sequence of <i>Paenibacillus etheri</i> sp. nov. SH7T, a Methyl Tert-Butyl Ether Degradar. <i>Genome Announcements</i> , <b>2016</b> , 4,		2
12	Effect of metolachlor on azotobacter nitrogen fixation in soil. <i>Environmental Toxicology and Chemistry</i> , <b>1989</b> , 8, 789-792	3.8	2
11	Biostimulation combined treatments for remediation of diesel contaminated soil <b>2010</b> ,		2
10	Total and Metabolically Active Microbial Community of Aerobic Granular Sludge Systems Operated in Sequential Batch Reactors: Effect of Pharmaceutical Compounds. <i>Toxics</i> , <b>2021</b> , 9,	4.7	2
9	Transmission of SARS-CoV-2 associated with wastewater treatment: a seroprevalence study. <i>International Journal of Water Resources Development</i> , 1-10	3	2
8	Effect of salinity variation on the autotrophic kinetics of the start-up of a membrane bioreactor and hybrid moving bed biofilm reactor-membrane bioreactor at low hydraulic retention time. <i>Water Science and Technology</i> , <b>2018</b> , 77, 714-720	2.2	1
7	Influence of several feeds on bacteria in sheep and goat rumen liquor in vitro. <i>Microbios</i> , <b>1990</b> , 62, 75-81		1
6	Evaluation of the Abundance of Fungi in Wastewater Treatment Plants Using Quantitative PCR (qPCR). <i>Methods in Molecular Biology</i> , <b>2020</b> , 2065, 79-94	1.4	1
5	Production of pantothenic acid and thiamine by <i>Azotobacter vinelandii</i> in a chemically defined medium and a dialysed soil medium <b>1996</b> , 22, 131		1
4	Pantothenic Acid <b>2016</b> , 67-101		1
3	Design of Bio-Absorbent Systems for the Removal of Hydrocarbons from Industrial Wastewater: Pilot-Plant Scale. <i>Toxics</i> , <b>2021</b> , 9,	4.7	1

2	sp. nov., isolated from nodules of in Spain. <i>International Journal of Systematic and Evolutionary Microbiology</i> , <b>2021</b> , 71,	2.2	1
1	Bacterial Diversity in Calcium Carbonate Paleo Accretions (Tosca) in the Southern Pampas, Argentina. <i>Geomicrobiology Journal</i> ,1-10	2.5	