Juan M GonzÃ¡lez

List of Publications by Year
in descending order

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126	5,778	94433 37	88630 70
papers	citations	h-index	g-index

129	129	129	6402
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A fluorimetric method for the estimation of G+C mol% content in microorganisms by thermal denaturation temperature. Environmental Microbiology, 2002, 4, 770-773.	3.8	953
2	Pyrococcus horikoshii sp. nov., a hyperthermophilic archaeon isolated from a hydrothermal vent at the Okinawa Trough. Extremophiles, 1998, 2, 123-130.	2.3	239
3	Grazing by marine nanofiagellates on viruses and virus-sized particles: ingestion and digestion. Marine Ecology - Progress Series, 1993, 94, 1-10.	1.9	239
4	Life in Hot Carbon Monoxide: The Complete Genome Sequence of Carboxydothermus hydrogenoformans Z-2901. PLoS Genetics, 2005, 1, e65.	3.5	226
5	Influence of organic loading rate and hydraulic retention time on the performance, stability and microbial communities of one-stage anaerobic digestion of two-phase olive mill solid residue. Biochemical Engineering Journal, 2008, 40, 253-261.	3.6	194
6	A simple fluorimetric method for the estimation of DNA?DNA relatedness between closely related microorganisms by thermal denaturation temperatures. Extremophiles, 2005, 9, 75-79.	2.3	136
7	On the origin of fiber calcite crystals in moonmilk deposits. Die Naturwissenschaften, 2006, 93, 27-32.	1.6	135
8	Amplification by PCR Artificially Reduces the Proportion of the Rare Biosphere in Microbial Communities. PLoS ONE, 2012, 7, e29973.	2.5	131
9	Detection and Phylogenetic Relationships of Highly Diverse Uncultured Acidobacterial Communities in Altamira Cave Using 23S rRNA Sequence Analyses. Geomicrobiology Journal, 2005, 22, 379-388.	2.0	121
10	Divergence of the Hyperthermophilic Archaea Pyrococcus furiosus and P. horikoshii Inferred From Complete Genomic Sequences. Genetics, 1999, 152, 1299-1305.	2.9	115
11	Thermosinus carboxydivorans gen. nov., sp. nov., a new anaerobic, thermophilic, carbon-monoxide-oxidizing, hydrogenogenic bacterium from a hot pool of Yellowstone National Park. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 2353-2359.	1.7	114
12	Thermococcus peptonophilus sp. nov., a fast-growing, extremely thermophilic archaebacterium isolated from deep-sea hydrothermal vents. Archives of Microbiology, 1995, 164, 159-164.	2.2	98
13	Survival strategy of Escherichia coli and Enterococcus faecalis in illuminated fresh and marine systems. Journal of Applied Bacteriology, 1990, 68, 189-198.	1.1	96
14	Multiple displacement amplification as a pre-polymerase chain reaction (pre-PCR) to process difficult to amplify samples and low copy number sequences from natural environments. Environmental Microbiology, 2005, 7, 1024-1028.	3.8	88
15	Isolation of five Rubrobacter strains from biodeteriorated monuments. Die Naturwissenschaften, 2009, 96, 71-79.	1.6	87
16	Metabolically active microbial communities of yellow and grey colonizations on the walls of Altamira Cave, Spain. Journal of Applied Microbiology, 2008, 104, 681-691.	3.1	86
17	Nitrate promotes biological oxidation of sulfide in wastewaters: Experiment at plant-scale. Biotechnology and Bioengineering, 2006, 93, 801-811.	3.3	83
18	Novel chemolithotrophic, thermophilic, anaerobic bacteria Thermolithobacter ferrireducens gen. nov., sp. nov. and Thermolithobacter carboxydivorans sp. nov.. Extremophiles, 2007, 11, 145-157.	2.3	79

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19	Performance and microbial communities of a continuous stirred tank anaerobic reactor treating two-phases olive mill solid wastes at low organic loading rates. Journal of Biotechnology, 2006, 121, 534-543.	3.8	76
20	Deterioration of building materials in Roman catacombs: The influence of visitors. Science of the Total Environment, 2005, 349, 260-276.	8.0	75
21	Nitrate stimulation of indigenous nitrate-reducing, sulfide-oxidising bacterial community in wastewater anaerobic biofilms. Water Research, 2007, 41, 3121-3131.	11.3	75
22	Molecular characterization of total and metabolically active bacterial communities of â€œwhite colonizationsâ€•in the Altamira Cave, Spain. Research in Microbiology, 2009, 160, 41-47.	2.1	75
23	Evaluating putative chimeric sequences from PCR-amplified products. Bioinformatics, 2005, 21, 333-337.	4.1	73
24	Metabolically active Crenarchaeota in Altamira Cave. Die Naturwissenschaften, 2006, 93, 42-45.	1.6	73
25	Aurantimonas altamirensis sp. nov., a member of the order Rhizobiales isolated from Altamira Cave. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 2583-2585.	1.7	70
26	Pressure and temperature effects on growth and viability of the hyperthermophilic archaeon Thermococcus peptonophilus. Archives of Microbiology, 1997, 168, 1-7.	2.2	64
27	An efficient strategy for screening large cloned libraries of amplified 16S rDNA sequences from complex environmental communities. Journal of Microbiological Methods, 2003, 55, 459-463.	1.6	62
28	Digestive enzyme activity as a quantitative measure of protistan grazing: the acid lysozyme assay for bacterivory. Marine Ecology - Progress Series, 1993, 100, 197-206.	1.9	62
29	Agromyces italicus sp. nov., Agromyces humatus sp. nov. and Agromyces lapidis sp. nov., isolated from Roman catacombs. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 871-875.	1.7	61
30	Agromyces subbeticus sp. nov., isolated from a cave in southern Spain. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 1897-1901.	1.7	58
31	Microbial diversity in biodeteriorated monuments as studied by denaturing gradient gel electrophoresis. Journal of Separation Science, 2004, 27, 174-180.	2.5	51
32	Agromyces salentinus sp. nov. and Agromyces neolithicus sp. nov.. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 153-157.	1.7	51
33	Biodeterioration of historic stained glasses from the Cartuja de Miraflores (Spain). International Biodeterioration and Biodegradation, 2006, 58, 155-161.	3.9	49
34	Pseudonocardia in white colonizations in two caves with Paleolithic paintings. International Biodeterioration and Biodegradation, 2008, 62, 483-486.	3.9	48
35	Reproducing stone monument photosynthetic-based colonization under laboratory conditions. Science of the Total Environment, 2008, 405, 278-285.	8.0	45
36	Moonmilk Deposits Originate from Specific Bacterial Communities in Altamira Cave (Spain). Microbial Ecology, 2011, 61, 182-189.	2.8	43

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37	Isoptericola hypogeus sp. nov., isolated from the Roman catacomb of Domitilla. International Journal of Systematic and Evolutionary Microbiology, 2005, 55, 1715-1719.	1.7	40
38	Thermococcus waiotapuensis sp. nov., an extremely thermophilic archaeon isolated from a freshwater hot spring. Archives of Microbiology, 1999, 172, 95-101.	2.2	38
39	Development of Two PCR-Based Techniques for Detecting Helical and Coccoid Forms of Helicobacter pylori. Journal of Clinical Microbiology, 2004, 42, 3613-3619.	3.9	38
40	The role of microorganisms in the formation of calcitic moonmilk deposits and speleothems in Altamira Cave. Geomorphology, 2012, 139-140, 285-292.	2.6	38
41	Analysis of three genomes within the thermophilic bacterial species Caldanaerobacter subterraneus with a focus on carbon monoxide dehydrogenase evolution and hydrolase diversity. BMC Genomics, 2015, 16, 757.	2.8	38
42	Differential microbial communities in hot spring mats from Western Thailand. Extremophiles, 2009, 13, 321-331.	2.3	37
43	CRISPR elements in the Thermococcales: evidence for associated horizontal gene transfer inPyrococcus furiosus. Journal of Applied Genetics, 2009, 50, 421-430.	1.9	36
44	Characterization of â€ƒtwo aerobic ultramicrobacteria isolated from urban soil and a description of Oxalicibacterium solurbis sp. nov.. FEMS Microbiology Letters, 2010, 307, 25-29.	1.8	36
45	Presence and potential role of thermophilic bacteria in temperate terrestrial environments. Die Naturwissenschaften, 2012, 99, 43-53.	1.6	36
46	Epilithic biofilms in Saint Callixtus Catacombs (Rome) harbour a broad spectrum of Acidobacteria. Antonie Van Leeuwenhoek, 2006, 89, 203-208.	1.7	32
47	Nocardia altamirensis sp. nov., isolated from Altamira cave, Cantabria, Spain. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 2210-2214.	1.7	32
48	Is the availability of different nutrients a critical factor for the impact of bacteria on subterraneous carbon budgets?. Die Naturwissenschaften, 2009, 96, 1035-1042.	1.6	32
49	A proposal to rename the hyperthermophilePyrococcus woeseiasPyrococcus furiosussubsp.woesei. Archaea, 2004, 1, 277-283.	2.3	30
50	Amycolatopsis nigrescens sp. nov., an actinomycete isolated from a Roman catacomb. International Journal of Systematic and Evolutionary Microbiology, 2007, 57, 513-519.	1.7	29
51	Bacterial Distribution Along a 50ÂÂ°C Temperature Gradient Reveals a Parceled Out Hot Spring Environment. Microbial Ecology, 2014, 68, 729-739.	2.8	29
52	Myceligenerans crystallogenes sp. nov., isolated from Roman catacombs. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 283-287.	1.7	27
53	Modelling enteric bacteria survival in aquatic systems. Hydrobiologia, 1995, 316, 109-116.	2.0	26
54	Assessment of Bacterial and Fungal Growth on Natural Substrates: Consequences for Preserving Caves with Prehistoric Paintings. Current Microbiology, 2009, 59, 321-325.	2.2	26

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55	Genetic analysis ofCarboxydothermus hydrogenoformanscarbon monoxide dehydrogenase genescooFandcooS. FEMS Microbiology Letters, 2000, 191, 243-247.	1.8	25
56	Nitric Oxide Accumulation: The Evolutionary Trigger for Phytopathogenesis. Frontiers in Microbiology, 2017, 8, 1947.	3.5	25
57	Evidence of horizontal gene transfer by transposase gene analyses in Fervidobacterium species. PLoS ONE, 2017, 12, e0173961.	2.5	25
58	Pectinatus portalensis nov. sp., a relatively fast-growing, coccoidal, novel Pectinatus species isolated from a wastewater treatment plant. Antonie Van Leeuwenhoek, 2004, 86, 241-247.	1.7	24
59	Propionibacterium olivae sp. nov. and Propionibacterium damnosum sp. nov., isolated from spoiled packaged Spanish-style green olives. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 2980-2985.	1.7	23
60	Bioconversion of Î±-chitin into N-acetyl-glucosamine using chitinases produced by marine-derived Aeromonas caviae isolates. World Journal of Microbiology and Biotechnology, 2017, 33, 201.	3.6	23
61	Aerobiology and cultural heritage: some reflections and future challenges. Aerobiologia, 2007, 23, 89-90.	1.7	22
62	Sulfate-reducing bacteria are common members of bacterial communities in Altamira Cave (Spain). Science of the Total Environment, 2009, 407, 1114-1122.	8.0	22
63	Environmental factors affect the response of microbial extracellular enzyme activity in soils when determined as a function of water availability and temperature. Ecology and Evolution, 2020, 10, 10105-10115.	1.9	22
64	Fervidobacterium thailandense sp. nov., an extremely thermophilic bacterium isolated from a hot spring. International Journal of Systematic and Evolutionary Microbiology, 2016, 66, 5023-5027.	1.7	22
65	A general purpose program for obtaining most probable number tables. Journal of Microbiological Methods, 1996, 26, 215-218.	1.6	21
66	Microbial Community Fingerprinting by Differential Display-Denaturing Gradient Gel Electrophoresis. Applied and Environmental Microbiology, 2011, 77, 351-354.	3.1	21
67	Microbial community dynamics in the two-stage anaerobic digestion process of two-phase olive mill residue. International Journal of Environmental Science and Technology, 2013, 10, 635-644.	3.5	21
68	Microbial communities and immigration in volcanic environments of Canary Islands (Spain). Die Naturwissenschaften, 2008, 95, 307-315.	1.6	20
69	Three different phototrophic microbial communities colonizing a single natural shelter containing prehistoric paintings. Science of the Total Environment, 2009, 407, 4876-4881.	8.0	20
70	Acidobacteria in Freshwater Ponds at DoÃ±ana National Park, Spain. Microbial Ecology, 2012, 63, 844-855.	2.8	20
71	Latitude-dependent underestimation of microbial extracellular enzyme activity in soils. International Journal of Environmental Science and Technology, 2015, 12, 2427-2434.	3.5	20
72	Statistical differences between relative quantitative molecular fingerprints from microbial communities. Antonie Van Leeuwenhoek, 2008, 94, 157-163.	1.7	19

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73	Characterization of new soil thermophilic bacteria potentially involved in soil fertilization. Journal of Plant Nutrition and Soil Science, 2013, 176, 47-56.	1.9	18
74	Persistence of microbial extracellular enzymes in soils under different temperatures and water availabilities. Ecology and Evolution, 2020, 10, 10167-10176.	1.9	18
75	Microbial ecology of submerged marine caves and holes characterized by high levels of hydrogen sulphide. Reviews in Environmental Science and Biotechnology, 2007, 6, 61-70.	8.1	17
76	Relationship between certain ceramic roofing tile characteristics and biodeterioration. Journal of the European Ceramic Society, 2011, 31, 2753-2761.	5.7	17
77	Cellular Viscosity in Prokaryotes and Thermal Stability of Low Molecular Weight Biomolecules. Biophysical Journal, 2016, 111, 875-882.	0.5	17
78	Extremely thermostable glutamate dehydrogenase (GDH) from the freshwater archaeon Thermococcus waiotapuensis : cloning and comparison with two marine hyperthermophilic GDHs. Extremophiles, 2002, 6, 151-159.	2.3	16
79	Enterococcus olivae sp. nov., isolated from Spanish-style green-olive fermentations. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 2534-2539.	1.7	16
80	Inferring pathways leading to organic-sulfur mineralization in the Bacillales. Critical Reviews in Microbiology, 2016, 42, 31-45.	6.1	16
81	Transformation of organic and inorganic sulfurâ€“ adding perspectives to new players in soil and rhizosphere. Soil Biology and Biochemistry, 2021, 160, 108306.	8.8	16
82	Culturability and survival of an extreme thermophile isolated from deep-sea hydrothermal vents. Archives of Microbiology, 1996, 166, 64-67.	2.2	15
83	Bacterial degradation of dichloromethane in cultures and natural environments. Journal of Microbiological Methods, 2003, 54, 419-422.	1.6	15
84	Did Smoke from the Kuwait Oil Well Fires Affect Iranian Archaeological Heritage?. Environmental Science & Technology, 2007, 41, 2378-2386.	10.0	15
85	Members of the Candidate Division OP10 are spread in a variety of environments. World Journal of Microbiology and Biotechnology, 2009, 25, 347-353.	3.6	15
86	A procedure to evaluate the resistance to biological colonization as a characteristic for product quality of ceramic roofing tiles. Journal of the European Ceramic Society, 2011, 31, 351-359.	5.7	15
87	Draft Genome of the Marine Gammaproteobacterium Halomonas titanicae. Genome Announcements, 2013, 1, e0008313.	0.8	15
88	Impacts of protected colonial birds on soil microbial communities: When protection leads to degradation. Soil Biology and Biochemistry, 2017, 105, 59-70.	8.8	15
89	Biodegradation of Dichloromethane in an Estuarine Environment. Hydrobiologia, 2006, 559, 77-83.	2.0	14
90	Comparing bacterial community fingerprints from white colonizations in Altamira Cave (Spain). World Journal of Microbiology and Biotechnology, 2009, 25, 1347-1352.	3.6	11

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91	Differential Effects of Distinct Bacterial Biofilms in a Cave Environment. Current Microbiology, 2010, 60, 435-438.	2.2	11
92	Influence of Abiotic Factors Temperature and Water Content on Bacterial 2-Chlorophenol Biodegradation in Soils. Frontiers in Environmental Science, 2019, 7, .	3.3	11
93	Thermococcus peptonophilus sp. nov., a fast-growing, extremely thermophilic archaebacterium isolated from deep-sea hydrothermal vents. Archives of Microbiology, 1995, 164, 159-164.	2.2	10
94	An approach to measure ciliate grazing on living heterotrophic nanoflagellates. Hydrobiologia, 2003, 491, 159-166.	2.0	10
95	Copper and temperature modify microbial communities, ammonium and sulfate release in soil. Journal of Plant Nutrition and Soil Science, 2015, 178, 953-962.	1.9	10
96	Vibrio olivae sp. nov., isolated from Spanish-style green-olive fermentations. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 1895-1901.	1.7	10
97	Feasibility of sunflower oil cake degradation with three different anaerobic consortia. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1409-1416.	1.7	9
98	Genetic Analysis and In Vitro Enzymatic Determination of Bacterial Community in Compost Teas from Different Sources. Compost Science and Utilization, 2018, 26, 256-270.	1.2	9
99	Multidisciplinary involvement and potential of thermophiles. Folia Microbiologica, 2019, 64, 389-406.	2.3	9
100	Hydrolytic enzyme activity enhanced by Barium supplementation. AIMS Microbiology, 2016, 2, 402-411.	2.2	9
101	Isolation, characterization, and survival strategies of Thermotoga sp. strain PD524, a hyperthermophile from a hot spring in Northern Thailand. Extremophiles, 2015, 19, 853-861.	2.3	8
102	Microbes Pose a Risk to Prehistoric Cave Paintings. Microbe Magazine, 2008, 3, 72-77.	0.4	8
103	Influence of Temperature and Copper on Oxalobacteraceae in Soil Enrichments. Current Microbiology, 2016, 72, 370-376.	2.2	6
104	Role of specific microbial communities in the bioavailability of iron in DoÃ±ana National Park. Environmental Geochemistry and Health, 2008, 30, 165-170.	3.4	5
105	Kinetics of Indigenous Nitrate Reducing Sulfide Oxidizing Activity in Microaerophilic Wastewater Biofilms. PLoS ONE, 2016, 11, e0149096.	2.5	5
106	Counterselection of prokaryotic ribosomal RNA during reverse transcription using non-random hexameric oligonucleotides. Journal of Microbiological Methods, 2007, 71, 288-291.	1.6	4
107	Reduction of Net Sulfide Production Rate by Nitrate in Wastewater Bioreactors. Kinetics and Changes in the Microbial Community. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	4
108	Genomic Analysis of a Marine Bacterium: Bioinformatics for Comparison, Evaluation, and Interpretation of DNA Sequences. BioMed Research International, 2016, 2016, 1-7.	1.9	4

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109	Correcting names of bacteria deposited in National Microbial Repositories: an analysed sequence data necessary for taxonomic re-categorization of misclassified bacteria-ONE example, genus Lysinibacillus. Data in Brief, 2017, 13, 761-778.	1.0	4
110	Molecular Tunnels in Enzymes and Thermophily: A Case Study on the Relationship to Growth Temperature. Microorganisms, 2018, 6, 109.	3.6	4
111	Optical Thermal Cycler for Use as a Fluorimetric Plate Reader to Estimate DNA Concentrations. BioTechniques, 2003, 34, 710-712.	1.8	3
112	New Generation DNA Sequencing (NGS): Mining for Genes and the Potential of Extremophiles. , 2017, , 255-268.		3
113	On a Non-Discrete Concept of Prokaryotic Species. Microorganisms, 2020, 8, 1723.	3.6	3
114	Comportamiento de tejas de diferente color (rojo y paja) frente al biodeterioro. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2014, 53, 227-234.	1.9	3
115	Mutualistic growth of the sulfate-reducer Desulfovibrio vulgaris Hildenborough with different carbohydrates. Microbiology, 2012, 81, 663-668.	1.2	2
116	Pigment profiles and bacterial communities from Thailand thermal mats. Antonie Van Leeuwenhoek, 2009, 96, 559-567.	1.7	1
117	FLUORESCENT MEASUREMENTS OF DNA, RNA AND PROTEINS TO PERFORM COMPARATIVE ANALYSES OF MICROBIAL COMMUNITIES FROM THE ENVIRONMENTS. Journal of Rapid Methods and Automation in Microbiology, 2009, 17, 398-410.	0.4	1
118	Identification and Characterization of a Freshwater Pyrococcus sp. Strain PK 5017 and Identification of Pfu-Like IS Elements in Thermococcus sibiricus MM 739. International Journal of Biology, 2012, 4, .	0.2	1
119	Functional Diversity and Applications of Mobile Group II Introns. , 2017, , 161-169.		1
120	Thermophiles. , 1999, , 113-154.		1
121	Life in Hot Carbon Monoxide: the Complete Genome Sequence of Carboxydothermus hydrogenoformans Z-2901. PLoS Genetics, 2005, preprint, e65.	3.5	1
122	Rapid extraction of plasmid pGT5 from the hyperthermophilic archaeonPyrococcus abyssi. Molecular Biotechnology, 1999, 11, 221-224.	2.4	0
123	Novel Methodologies for the Detection and Classification of Cultured and Uncultured Microorganisms from Cultural Heritage Samples. , 0, , 120-124.		0
124	Spider fibers and the apparent fungal colonization of rock-art caves. Die Naturwissenschaften, 2010, 97, 115-116.	1.6	0
125	A cloning strategy to obtain recombinant proteins with identical primary structure to the native forms. Journal of Biotechnology, 2010, 149, 21-23.	3.8	0
126	Evaluating Putative Chimeric Sequences from PCR-Amplified Products. , 2015, , 150-155.		0