

Miguel ngel Matilla Vzquez

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

75
papers

1,754
citations

24
h-index

40
g-index

79
ext. papers

2,350
ext. citations

6.3
avg, IF

5.3
L-index

#	Paper	IF	Citations
75	Genomic analysis reveals the major driving forces of bacterial life in the rhizosphere. <i>Genome Biology</i> , 2007 , 8, R179	18.3	156
74	Seed dormancy and ABA signaling: the breakthrough goes on. <i>Plant Signaling and Behavior</i> , 2009 , 4, 1035 - 49	2.5	123
73	Involvement of ethylene in seed physiology. <i>Plant Science</i> , 2008 , 175, 87-97	5.3	115
72	The effect of bacterial chemotaxis on host infection and pathogenicity. <i>FEMS Microbiology Reviews</i> , 2018 , 42,	15.1	110
71	<i>Pseudomonas putida</i> KT2440 causes induced systemic resistance and changes in Arabidopsis root exudation. <i>Environmental Microbiology Reports</i> , 2010 , 2, 381-8	3.7	81
70	Bacterial chemotaxis towards aromatic hydrocarbons in <i>Pseudomonas</i> . <i>Environmental Microbiology</i> , 2011 , 13, 1733-44	5.2	72
69	Analysis of the plant growth-promoting properties encoded by the genome of the rhizobacterium <i>Pseudomonas putida</i> BIRD-1. <i>Environmental Microbiology</i> , 2013 , 15, 780-94	5.2	66
68	Cyclic diguanylate turnover mediated by the sole GGDEF/EAL response regulator in <i>Pseudomonas putida</i> : its role in the rhizosphere and an analysis of its target processes. <i>Environmental Microbiology</i> , 2011 , 13, 1745-66	5.2	65
67	Bacterial biosynthetic gene clusters encoding the anti-cancer haterumalide class of molecules: biogenesis of the broad spectrum antifungal and anti-oomycete compound, oocydin A. <i>Journal of Biological Chemistry</i> , 2012 , 287, 39125-38	5.4	58
66	Temperature and pyoverdine-mediated iron acquisition control surface motility of <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , 2007 , 9, 1842-50	5.2	48
65	Complete genome of the plant growth-promoting rhizobacterium <i>Pseudomonas putida</i> BIRD-1. <i>Journal of Bacteriology</i> , 2011 , 193, 1290	3.5	45
64	Assessment of the contribution of chemoreceptor-based signalling to biofilm formation. <i>Environmental Microbiology</i> , 2016 , 18, 3355-3372	5.2	43
63	The pGRT1 plasmid of <i>Pseudomonas putida</i> DOT-T1E encodes functions relevant for survival under harsh conditions in the environment. <i>Environmental Microbiology</i> , 2011 , 13, 2315-27	5.2	40
62	Analysis of solvent tolerance in <i>Pseudomonas putida</i> DOT-T1E based on its genome sequence and a collection of mutants. <i>FEBS Letters</i> , 2012 , 586, 2932-8	3.8	38
61	Chemoreceptor-based signal sensing. <i>Current Opinion in Biotechnology</i> , 2017 , 45, 8-14	11.4	37
60	Identification of a Chemoreceptor for C2 and C3 Carboxylic Acids. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 5449-57	4.8	33
59	High-Affinity Chemotaxis to Histamine Mediated by the TlpQ Chemoreceptor of the Human Pathogen <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2018 , 9,	7.8	33

58	Metabolic potential of the organic-solvent tolerant <i>Pseudomonas putida</i> DOT-T1E deduced from its annotated genome. <i>Microbial Biotechnology</i> , 2013 , 6, 598-611	6.3	29
57	The broad-spectrum antibiotic, zeamine, kills the nematode worm <i>Caenorhabditis elegans</i> . <i>Frontiers in Microbiology</i> , 2015 , 6, 137	5.7	28
56	McpQ is a specific citrate chemoreceptor that responds preferentially to citrate/metal ion complexes. <i>Environmental Microbiology</i> , 2016 , 18, 3284-3295	5.2	28
55	Bacteriophage ϕ MAM1, a viunlikevirus, is a broad-host-range, high-efficiency generalized transducer that infects environmental and clinical isolates of the enterobacterial genera <i>Serratia</i> and <i>Kluyvera</i> . <i>Applied and Environmental Microbiology</i> , 2014 , 80, 6446-57	4.8	27
54	Biosynthesis of the antifungal haterumalide, oocydin A, in <i>Serratia</i> , and its regulation by quorum sensing, RpoS and Hfq. <i>Environmental Microbiology</i> , 2015 , 17, 2993-3008	5.2	26
53	Identification of a Chemoreceptor in That Specifically Mediates Chemotaxis Toward β Ketoglutarate. <i>Frontiers in Microbiology</i> , 2016 , 7, 1937	5.7	24
52	Biosynthesis of the acetyl-CoA carboxylase-inhibiting antibiotic, andrimid in <i>Serratia</i> is regulated by Hfq and the LysR-type transcriptional regulator, AdmX. <i>Environmental Microbiology</i> , 2016 , 18, 3635-3650	5.2	24
51	Viunlikeviruses are environmentally common agents of horizontal gene transfer in pathogens and biocontrol bacteria. <i>ISME Journal</i> , 2014 , 8, 2143-7	11.9	23
50	Metabolic Value Chemoattractants Are Preferentially Recognized at Broad Ligand Range Chemoreceptor of KT2440. <i>Frontiers in Microbiology</i> , 2017 , 8, 990	5.7	23
49	The Molecular Mechanism of Nitrate Chemotaxis via Direct Ligand Binding to the PilJ Domain of McpN. <i>MBio</i> , 2019 , 10,	7.8	23
48	Concentration Dependent Effect of Plant Root Exudates on the Chemosensory Systems of KT2440. <i>Frontiers in Microbiology</i> , 2019 , 10, 78	5.7	22
47	How Bacterial Chemoreceptors Evolve Novel Ligand Specificities. <i>MBio</i> , 2020 , 11,	7.8	22
46	The activity of the C4-dicarboxylic acid chemoreceptor of <i>Pseudomonas aeruginosa</i> is controlled by chemoattractants and antagonists. <i>Scientific Reports</i> , 2018 , 8, 2102	4.9	21
45	Structural Basis for Polyamine Binding at the dCACHE Domain of the McpU Chemoreceptor from <i>Pseudomonas putida</i> . <i>Journal of Molecular Biology</i> , 2018 , 430, 1950-1963	6.5	19
44	Genetic Dissection of the Regulatory Network Associated with High c-di-GMP Levels in <i>Pseudomonas putida</i> KT2440. <i>Frontiers in Microbiology</i> , 2016 , 7, 1093	5.7	18
43	An auxin controls bacterial antibiotics production. <i>Nucleic Acids Research</i> , 2018 , 46, 11229-11238	20.1	18
42	Chemoperception of Specific Amino Acids Controls Phytopathogenicity in <i>Pseudomonas syringae</i> pv. tomato. <i>MBio</i> , 2019 , 10,	7.8	17
41	The use of isothermal titration calorimetry to unravel chemotactic signalling mechanisms. <i>Environmental Microbiology</i> , 2020 , 22, 3005-3019	5.2	14

40	Genome Sequence of <i>Serratia plymuthica</i> A153, a Model Rhizobacterium for the Investigation of the Synthesis and Regulation of Haterumalides, Zeamine, and Andrimid. <i>Genome Announcements</i> , 2016 , 4,		12
39	Plant Growth Promotion and Biocontrol Mediated by Plant-Associated Bacteria. <i>Microorganisms for Sustainability</i> , 2018 , 45-80	1.1	11
38	Determination of Ligand Profiles for Solute Binding Proteins. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	11
37	Functional Annotation of Bacterial Signal Transduction Systems: Progress and Challenges. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	11
36	A Plasmid-Transposon Hybrid Mutagenesis System Effective in a Broad Range of Enterobacteria. <i>Frontiers in Microbiology</i> , 2015 , 6, 1442	5.7	10
35	High-Throughput Screening to Identify Chemoreceptor Ligands. <i>Methods in Molecular Biology</i> , 2018 , 1729, 291-301	1.4	9
34	Removal of Hydrocarbons and Other Related Chemicals via the Rhizosphere of Plants 2010 , 2575-2581		9
33	Mining for novel antibiotics in the age of antimicrobial resistance. <i>Microbial Biotechnology</i> , 2020 , 13, 1702-1704	6.3	9
32	as a Model To Study Chemosensory Pathway Signaling. <i>Microbiology and Molecular Biology Reviews</i> , 2021 , 85,	13.2	9
31	Genome Sequence of MSU97, a Plant-Associated Bacterium That Makes Multiple Antibiotics. <i>Genome Announcements</i> , 2017 , 5,		8
30	Ethylene: Role in Plants Under Environmental Stress 2014 , 189-222		8
29	Complete genome sequence of <i>Serratia plymuthica</i> bacteriophage MAM1. <i>Journal of Virology</i> , 2012 , 86, 13872-3	6.6	8
28	The involvement of McpB chemoreceptor from <i>Pseudomonas aeruginosa</i> PAO1 in virulence. <i>Scientific Reports</i> , 2019 , 9, 13166	4.9	7
27	A catalogue of signal molecules that interact with sensor kinases, chemoreceptors and transcriptional regulators. <i>FEMS Microbiology Reviews</i> , 2021 ,	15.1	7
26	Chemical fertilization: a short-term solution for plant productivity?. <i>Microbial Biotechnology</i> , 2020 , 13, 1311-1313	6.3	6
25	The role of solute binding proteins in signal transduction. <i>Computational and Structural Biotechnology Journal</i> , 2021 , 19, 1786-1805	6.8	6
24	Identification of ligands for bacterial sensor proteins. <i>Current Genetics</i> , 2016 , 62, 143-7	2.9	5
23	Training bacteria to produce environmentally friendly polymers of industrial and medical relevance. <i>Microbial Biotechnology</i> , 2020 , 13, 14-16	6.3	5

22	Shedding light into the mechanisms of formation and resuscitation of persistent bacterial cells. <i>Environmental Microbiology</i> , 2018 , 20, 3129-3131	5.2	4
21	Evidence for Pentapeptide-Dependent and Independent CheB Methylesterases. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
20	The structural basis for signal promiscuity in a bacterial chemoreceptor. <i>FEBS Journal</i> , 2021 , 288, 2294-2310	3.1	4
19	Amino acid sensor conserved from bacteria to humans.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2110415119	11.5	4
18	A technology for the investigation of biofilm transmission under shearing pressures. <i>Microbial Biotechnology</i> , 2017 , 10, 1451-1453	6.3	3
17	Using Genomics to Unveil Bacterial Determinants of Rhizosphere Life Style 2013 , 5-16		3
16	Antimicrobial resistance: progress and challenges in antibiotic discovery and anti-infective therapy. <i>Microbial Biotechnology</i> , 2021 , 15, 70	6.3	3
15	Metabolic Responses of Plants Upon Different Plant-Pathogen Interactions 2018 , 195-214		2
14	Histamine: A Bacterial Signal Molecule. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
13	Removal of Hydrocarbons and Other Related Chemicals Via the Rhizosphere of Plants 2018 , 1-13		1
12	Problems of Solventogenicity, Solvent Tolerance: An Introduction 2018 , 327-334		1
11	Membrane Composition and Modifications in Response to Aromatic Hydrocarbons in Gram-Negative Bacteria 2018 , 373-384		1
10	Genome Sequence of the Oocydin A-Producing Rhizobacterium <i>Serratia plymuthica</i> 4Rx5. <i>Microbiology Resource Announcements</i> , 2018 , 7,	1.3	1
9	Facing crises in the 21st century: microfluidics approaches for antibiotic discovery. <i>Microbial Biotechnology</i> , 2021 ,	6.3	1
8	Genetics of Sensing, Accessing, and Exploiting Hydrocarbons 2018 , 345-359		0
7	Chemotaxis of the Human Pathogen <i>Pseudomonas aeruginosa</i> to the Neurotransmitter Acetylcholine.. <i>MBio</i> , 2022 , e0345821	7.8	0
6	Removal of Hydrocarbons and Other Related Chemicals via the Rhizosphere of Plants 2019 , 157-169		
5	Problems of Solventogenicity, Solvent Tolerance: An Introduction 2017 , 1-8		

4 Genetics of Sensing, Accessing, and Exploiting Hydrocarbons **2018**, 1-15

3 Membrane Composition and Modifications in Response to Aromatic Hydrocarbons in Gram-Negative Bacteria **2018**, 1-12

2 Novel pressure sensors and bioreporters in the synthetic biology era. *Environmental Microbiology*, **2018**, 20, 141-144 5.2

1 Noncanonical Sensing Mechanisms for *Bacillus subtilis* Chemoreceptors.. *Journal of Bacteriology*, **2022**, e0002722 3.5