

Max Chavarra

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.

52
papers

1,700
citations

19
h-index

41
g-index

65
ext. papers

2,271
ext. citations

4.7
avg, IF

4.84
L-index

#	Paper	IF	Citations
52	The Standard European Vector Architecture (SEVA): a coherent platform for the analysis and deployment of complex prokaryotic phenotypes. <i>Nucleic Acids Research</i> , 2013 , 41, D666-75	20.1	372
51	<i>Pseudomonas putida</i> KT2440 Strain Metabolizes Glucose through a Cycle Formed by Enzymes of the Entner-Doudoroff, Embden-Meyerhof-Parnas, and Pentose Phosphate Pathways. <i>Journal of Biological Chemistry</i> , 2015 , 290, 25920-32	5.4	192
50	From dirt to industrial applications: <i>Pseudomonas putida</i> as a Synthetic Biology chassis for hosting harsh biochemical reactions. <i>Current Opinion in Chemical Biology</i> , 2016 , 34, 20-29	9.7	151
49	The Entner-Doudoroff pathway empowers <i>Pseudomonas putida</i> KT2440 with a high tolerance to oxidative stress. <i>Environmental Microbiology</i> , 2013 , 15, 1772-85	5.2	142
48	The metabolic cost of flagellar motion in <i>Pseudomonas putida</i> KT2440. <i>Environmental Microbiology</i> , 2014 , 16, 291-303	5.2	97
47	Regulatory tasks of the phosphoenolpyruvate-phosphotransferase system of <i>Pseudomonas putida</i> in central carbon metabolism. <i>MBio</i> , 2012 , 3,	7.8	67
46	Production of selenium nanoparticles in <i>Pseudomonas putida</i> KT2440. <i>Scientific Reports</i> , 2016 , 6, 37155	4.9	60
45	Accumulation of inorganic polyphosphate enables stress endurance and catalytic vigour in <i>Pseudomonas putida</i> KT2440. <i>Microbial Cell Factories</i> , 2013 , 12, 50	6.4	56
44	Microbial degradation of palm (<i>Elaeis guineensis</i>) biodiesel. <i>Revista De Biologia Tropical</i> , 2006 , 54, 59-63	1.3	53
43	Endogenous stress caused by faulty oxidation reactions fosters evolution of 2,4-dinitrotoluene-degrading bacteria. <i>PLoS Genetics</i> , 2013 , 9, e1003764	6	51
42	A second chromosomal copy of the <i>catA</i> gene endows <i>Pseudomonas putida</i> mt-2 with an enzymatic safety valve for excess of catechol. <i>Environmental Microbiology</i> , 2014 , 16, 1767-78	5.2	32
41	The interplay of the EIIA(Ntr) component of the nitrogen-related phosphotransferase system (PTS(Ntr)) of <i>Pseudomonas putida</i> with pyruvate dehydrogenase. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011 , 1810, 995-1005	4	30
40	Two new cellulolytic fungal species isolated from a 19-century art collection. <i>Scientific Reports</i> , 2018 , 8, 7492	4.9	29
39	Association of <i>dnt</i> genes of <i>Burkholderia</i> sp. DNT with the substrate-blind regulator DntR draws the evolutionary itinerary of 2,4-dinitrotoluene biodegradation. <i>Molecular Microbiology</i> , 2011 , 82, 287-99	4.1	26
38	Reconfiguration of metabolic fluxes in <i>Pseudomonas putida</i> as a response to sub-lethal oxidative stress. <i>ISME Journal</i> , 2021 , 15, 1751-1766	11.9	26
37	Fructose 1-phosphate is the one and only physiological effector of the Cra (FruR) regulator of <i>Pseudomonas putida</i> . <i>FEBS Open Bio</i> , 2014 , 4, 377-86	2.7	23
36	A Metabolic Widget Adjusts the Phosphoenolpyruvate-Dependent Fructose Influx in. <i>MSystems</i> , 2016 , 1,	7.6	23

35	Fructose 1-phosphate is the preferred effector of the metabolic regulator Cra of <i>Pseudomonas putida</i> . <i>Journal of Biological Chemistry</i> , 2011 , 286, 9351-9	5.4	20
34	Thermoplasmatales and sulfur-oxidizing bacteria dominate the microbial community at the surface water of a CO-rich hydrothermal spring located in Tenorio Volcano National Park, Costa Rica. <i>Extremophiles</i> , 2019 , 23, 177-187	3	19
33	The Bacterial Product Violacein Exerts an Immunostimulatory Effect Via TLR8. <i>Scientific Reports</i> , 2019 , 9, 13661	4.9	17
32	Cra regulates the cross-talk between the two branches of the phosphoenolpyruvate : phosphotransferase system of <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , 2013 , 15, 121-32	5.2	16
31	An electro-optical device from a biofilm structure created by bacterial activity. <i>Advanced Materials</i> , 2010 , 22, 4846-50	24	15
30	Phylogenetic analyses of antibiotic-producing <i>Streptomyces</i> sp. isolates obtained from the stingless-bee <i>Tetragonisca angustula</i> (Apidae: Meliponini). <i>Microbiology (United Kingdom)</i> , 2019 , 165, 292-301	2.9	14
29	Quantitative Physiology Approaches to Understand and Optimize Reducing Power Availability in Environmental Bacteria. <i>Springer Protocols</i> , 2015 , 39-70	0.3	11
28	Antibacterial biocomposite materials based on essential oils embedded in sol-gel hybrid silica matrices. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 79, 584-595	2.3	10
27	The IHF regulon of exponentially growing <i>Pseudomonas putida</i> cells. <i>Environmental Microbiology</i> , 2013 , 15, 49-63	5.2	9
26	Canine Distemper Virus in Wild Felids of Costa Rica. <i>Journal of Wildlife Diseases</i> , 2016 , 52, 373-7	1.3	8
25	Scattering of light by colloidal aluminosilicate particles produces the unusual sky-blue color of Rb Celeste (Tenorio volcano complex, Costa Rica). <i>PLoS ONE</i> , 2013 , 8, e75165	3.7	8
24	Pristine but metal-rich Rb Sucio (Dirty River) is dominated by Gallionella and other iron-sulfur oxidizing microbes. <i>Extremophiles</i> , 2017 , 21, 235-243	3	7
23	ArsH protects <i>Pseudomonas putida</i> from oxidative damage caused by exposure to arsenic. <i>Environmental Microbiology</i> , 2020 , 22, 2230-2242	5.2	6
22	Interplay of the PtsN (EIIA(Ntr)) protein of <i>Pseudomonas putida</i> with its target sensor kinase KdpD. <i>Environmental Microbiology Reports</i> , 2015 , 7, 899-907	3.7	6
21	Phenolic variation among <i>Chamaecrista nictitans</i> subspecies and varieties revealed through UPLC-ESI(-)MS/MS chemical fingerprinting. <i>Metabolomics</i> , 2019 , 15, 14	4.7	5
20	The two paralogue phoN (phosphinothricin acetyl transferase) genes of <i>Pseudomonas putida</i> encode functionally different proteins. <i>Environmental Microbiology</i> , 2015 , 17, 3330-40	5.2	5
19	Modeling and analysis of flux distributions in the two branches of the phosphotransferase system in <i>Pseudomonas putida</i> . <i>BMC Systems Biology</i> , 2012 , 6, 149	3.5	5
18	Two New 3,4-Seco-ent-kaurenes and Other Constituents From the Costa Rican Endemic Species <i>Croton megistocarpus</i> . <i>Helvetica Chimica Acta</i> , 2011 , 94, 1888-1892	2	4

17	Redox stress reshapes carbon fluxes of <i>Pseudomonas putida</i> for cytosolic glucose oxidation and NADPH generation		4
16	The imbroglio of the physiological Cra effector clarified at last. <i>Molecular Microbiology</i> , 2018 , 109, 273-277		3
15	Biodeterioration and cellulolytic activity by fungi isolated from a nineteenth-century painting at the National Theatre of Costa Rica.. <i>Fungal Biology</i> , 2022 , 126, 101-112	2.8	2
14	Bocaparvovirus, Erythroparvovirus and Tetraparvovirus in New World Primates from Central America. <i>Transboundary and Emerging Diseases</i> , 2020 , 67, 377-387	4.2	2
13	Transcriptional control of 2,4-dinitrotoluene degradation in <i>Burkholderia</i> sp. R34 bears a regulatory patch that eases pathway evolution. <i>Environmental Microbiology</i> , 2021 , 23, 2522-2531	5.2	2
12	<i>Streptomyces</i> sp. M54: an actinobacteria associated with a neotropical social wasp with high potential for antibiotic production. <i>Antonie Van Leeuwenhoek</i> , 2021 , 114, 379-398	2.1	2
11	Temperature and elemental sulfur shape microbial communities in two extremely acidic aquatic volcanic environments. <i>Extremophiles</i> , 2021 , 25, 85-99	3	2
10	Microbial Community Structure Along a Horizontal Oxygen Gradient in a Costa Rican Volcanic Influenced Acid Rock Drainage System. <i>Microbial Ecology</i> , 2020 , 80, 793-808	4.4	1
9	Microsatellite DNA fingerprinting of <i>Coffea</i> sp. germplasm conserved in Costa Rica through singleplex and multiplex PCR. <i>Crop Breeding and Applied Biotechnology</i> , 2020 , 20,	1.1	1
8	Concomitant prediction of environmental fate and toxicity of chemical compounds. <i>Biology Methods and Protocols</i> , 2020 , 5, bpa025	2.4	1
7	Field performance of hermaphrodite papaya plants obtained through molecular selection and micropropagation. <i>Crop Breeding and Applied Biotechnology</i> , 2019 , 19, 420-427	1.1	1
6	Methylotrophs and Hydrocarbon-Degrading Bacteria Are Key Players in the Microbial Community of an Abandoned Century-Old Oil Exploration Well. <i>Microbial Ecology</i> , 2021 , 1	4.4	1
5	Low CyaA expression and anti-cooperative binding of cAMP to CRP frames the scope of the cognate regulon of <i>Pseudomonas putida</i> . <i>Environmental Microbiology</i> , 2021 , 23, 1732-1749	5.2	1
4	The putative phosphate transporter PitB (PP1373) is involved in tellurite uptake in KT2440. <i>Microbiology (United Kingdom)</i> , 2021 , 167,	2.9	1
3	The potential of <i>Pseudomonas</i> for bioremediation of oxyanions. <i>Environmental Microbiology Reports</i> , 2021 , 13, 773-789	3.7	1
2	A draft genome assembly of <i>Passiflora</i> (<i>Passiflora friedrichsthalianum</i> (O. Berg) Nied.): an indigenous crop of Costa Rica untapped. <i>Genetic Resources and Crop Evolution</i> , 1	2	0
1	Biodegradation of plastics at home composting conditions. <i>Environmental Challenges</i> , 2022 , 7, 100500	2.6	0