Manuel Espinosa-Urgel

List of Publications by Year
in descending order

75 papers	3,577 citations	159585 30 h-index	138484 58 g-index
76 all docs	76 docs citations	76 times ranked	3429 citing authors

#	Article	IF	Citations
1	Transition from reversible to irreversible attachment during biofilm formation by Pseudomonas fluorescens WCS365 requires an ABC transporter and a large secreted protein. Molecular Microbiology, 2003, 49, 905-918.	2.5	438
2	Genetic Analysis of Functions Involved in Adhesion of Pseudomonas putida to Seeds. Journal of Bacteriology, 2000, 182, 2363-2369.	2.2	322
3	Stationary-phase-inducible "gearbox" promoters: differential effects of katF mutations and role of sigma 70. Journal of Bacteriology, 1991, 173, 4482-4492.	2.2	222
4	Responses of Gram-negative bacteria to certain environmental stressors. Current Opinion in Microbiology, 2001, 4, 166-171.	5.1	192
5	Genomic analysis reveals the major driving forces of bacterial life in the rhizosphere. Genome Biology, 2007, 8, R179.	9.6	183
6	LapF, the second largest <i>Pseudomonas putida</i> protein, contributes to plant root colonization and determines biofilm architecture. Molecular Microbiology, 2010, 77, 549-561.	2.5	131
7	Multiple and Interconnected Pathways for l -Lysine Catabolism in Pseudomonas putida KT2440. Journal of Bacteriology, 2005, 187, 7500-7510.	2.2	122
8	Root colonization by Pseudomonas putida: love at first sight. Microbiology (United Kingdom), 2002, 148, 341-343.	1.8	113
9	Different, overlapping mechanisms for colonization of abiotic and plant surfaces by<i>Pseudomonas putida</i>. FEMS Microbiology Letters, 2008, 288, 118-124.	1.8	107
10	Rosmarinic acid is a homoserine lactone mimic produced by plants that activates a bacterial quorum-sensing regulator. Science Signaling, 2016, 9, ra1.	3.6	106
11	Roles of Cyclic Di-GMP and the Gac System in Transcriptional Control of the Genes Coding for the Pseudomonas putida Adhesins LapA and LapF. Journal of Bacteriology, 2014, 196, 1484-1495.	2.2	87
12	Efficient rhizosphere colonization by <i>Pseudomonas fluorescens</i> f113 mutants unable to form biofilms on abiotic surfaces. Environmental Microbiology, 2010, 12, 3185-3195.	3.8	74
13	Laboratory research aimed at closing the gaps in microbial bioremediation. Trends in Biotechnology, 2011, 29, 641-647.	9.3	74
14	Assessment of the contribution of chemoreceptorâ€based signalling to biofilm formation. Environmental Microbiology, 2016, 18, 3355-3372.	3.8	67
15	Cell Density-Dependent Gene Contributes to Efficient Seed Colonization by Pseudomonas putida KT2440. Applied and Environmental Microbiology, 2004, 70, 5190-5198.	3.1	65
16	A two-partner secretion system is involved in seed and root colonization and iron uptake by Pseudomonas putida KT2440. Environmental Microbiology, 2006, 8, 639-647.	3.8	62
17	Temperature and pyoverdine-mediated iron acquisition control surface motility ofPseudomonas putida. Environmental Microbiology, 2007, 9, 1842-1850.	3.8	62
18	Expression of a Pseudomonas putida Aminotransferase Involved in Lysine Catabolism Is Induced in the Rhizosphere. Applied and Environmental Microbiology, 2001, 67, 5219-5224.	3.1	58

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19	Role of iron and the TonB system in colonization of corn seeds and roots by Pseudomonas putida KT2440. Environmental Microbiology, 2005, 7, 443-449.	3.8	48
20	Identification of reciprocal adhesion genes in pathogenic and nonâ€pathogenic <i>Pseudomonas</i>. Environmental Microbiology, 2013, 15, 36-48.	3.8	48
21	Ïƒs-dependent promoters inEscherichia coliare located in DNA regions with intrinsic curvature. Nucleic Acids Research, 1993, 21, 3667-3670.	14.5	45
22	Plant growth promotion by Pseudomonas putida KT2440 under saline stress: role of eptA. Applied Microbiology and Biotechnology, 2020, 104, 4577-4592.	3.6	44
23	Plant-associated Pseudomonas populations: molecular biology, DNA dynamics, and gene transfer. Plasmid, 2004, 52, 139-150.	1.4	42
24	Interplay between extracellular matrix components of Pseudomonas putida biofilms. Research in Microbiology, 2013, 164, 382-389.	2.1	42
25	FleQ of Pseudomonas putida KT2440 is a multimeric cyclic diguanylate binding protein that differentially regulates expression of biofilm matrix components. Research in Microbiology, 2017, 168, 36-45.	2.1	42
26	The davDT Operon of Pseudomonas putida, Involved in Lysine Catabolism, Is Induced in Response to the Pathway Intermediate Î´-Aminovaleric Acid. Journal of Bacteriology, 2004, 186, 3439-3446.	2.2	40
27	Calcium Causes Multimerization of the Large Adhesin LapF and Modulates Biofilm Formation by Pseudomonas putida. Journal of Bacteriology, 2012, 194, 6782-6789.	2.2	38
28	The Pseudomonas aeruginosa quinolone quorum sensing signal alters the multicellular behaviour of Pseudomonas putida KT2440. Research in Microbiology, 2011, 162, 773-781.	2.1	37
29	Genetic Dissection of the Regulatory Network Associated with High c-di-GMP Levels in Pseudomonas putida KT2440. Frontiers in Microbiology, 2016, 7, 1093.	3.5	37
30	Escherichia coli genes expressed preferentially in an aquatic environment. Molecular Microbiology, 1998, 28, 325-332.	2.5	35
31	A Two-Component Regulatory System Integrates Redox State and Population Density Sensing in <i>Pseudomonas putida</i>. Journal of Bacteriology, 2008, 190, 7666-7674.	2.2	31
32	Resident Parking Only: Rhamnolipids Maintain Fluid Channels in Biofilms. Journal of Bacteriology, 2003, 185, 699-700.	2.2	30
33	Plant-Associated Biofilms. Reviews in Environmental Science and Biotechnology, 2003, 2, 99-108.	8.1	29
34	In silico analysis of large microbial surface proteins. Research in Microbiology, 2007, 158, 545-550.	2.1	29
35	Engineering Biological Approaches for Detection of Toxic Compounds: A New Microbial Biosensor Based on the Pseudomonas putida TtgR Repressor. Molecular Biotechnology, 2015, 57, 558-564.	2.4	29
36	Characterization of a phage-like pyocin from the plant growth-promoting rhizobacterium Pseudomonas fluorescens SF4c. Microbiology (United Kingdom), 2012, 158, 1493-1503.	1.8	28

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37	Self-Regulation and Interplay of Rsm Family Proteins Modulate the Lifestyle of Pseudomonas putida. Applied and Environmental Microbiology, 2016, 82, 5673-5686.	3.1	28
38	Evidence of circadian rhythms in non-photosynthetic bacteria?. Journal of Circadian Rhythms, 2014, 8, 8.	1.3	26
39	Arginine Biosynthesis Modulates Pyoverdine Production and Release in Pseudomonas putida as Part of the Mechanism of Adaptation to Oxidative Stress. Journal of Bacteriology, 2019, 201, .	2.2	26
40	<i>Pseudomonas stutzeri</i> MJL19, a rhizosphereâ€colonizing bacterium that promotes plant growth under saline stress. Journal of Applied Microbiology, 2020, 129, 1321-1336.	3.1	26
41	The <i>Pseudomonas putida</i> CsrA/RsmA homologues negatively affect câ€diâ€GMP pools and biofilm formation through the GGDEF/EAL response regulator CfcR. Environmental Microbiology, 2017, 19, 3551-3566.	3.8	22
42	Arginine as an environmental and metabolic cue for cyclic diguanylate signalling and biofilm formation in Pseudomonas putida. Scientific Reports, 2020, 10, 13623.	3.3	22
43	Nutrient Sensing and Biofilm Modulation: The Example of L-arginine in Pseudomonas. International Journal of Molecular Sciences, 2022, 23, 4386.	4.1	22
44	Characterization of the Pseudomonas putida Mobile Genetic Element ISPpu 10 : an Occupant of Repetitive Extragenic Palindromic Sequences. Journal of Bacteriology, 2006, 188, 37-44.	2.2	21
45	Fatty acidâ€mediated signalling between two <i>Pseudomonas</i> species. Environmental Microbiology Reports, 2012, 4, 417-423.	2.4	20
46	Pseudomonas putida and its close relatives: mixing and mastering the perfect tune for plants. Applied Microbiology and Biotechnology, 2022, 106, 3351-3367.	3.6	20
47	Inoculation of Pseudomonas mutant strains can improve growth of soybean and corn plants in soils under salt stress. Rhizosphere, 2020, 16, 100255.	3.0	18
48	The architecture of a mixed fungalâ€“bacterial biofilm is modulated by quorumâ€sensing signals. Environmental Microbiology, 2021, 23, 2433-2447.	3.8	18
49	PpoR, an orphan LuxRâ€family protein of <i>Pseudomonas putida</i> KT2440, modulates competitive fitness and surface motility independently of <i>N</i>â€acylhomoserine lactones. Environmental Microbiology Reports, 2011, 3, 79-85.	2.4	15
50	Selection of hyperadherent mutants in Pseudomonas putida biofilms. Microbiology (United Kingdom), 2011, 157, 2257-2265.	1.8	13
51	Characterization of the bacteriocins and the PrtR regulator in a plant-associated Pseudomonas strain. Journal of Biotechnology, 2020, 307, 182-192.	3.8	13
52	Purification and characterization of Pseudomonas aeruginosa LasR expressed in acyl-homoserine lactone free Escherichia coli cultures. Protein Expression and Purification, 2017, 130, 107-114.	1.3	12
53	Stability of a Pseudomonas putida KT2440 Bacteriophage-Carried Genomic Island and Its Impact on Rhizosphere Fitness. Applied and Environmental Microbiology, 2012, 78, 6963-6974.	3.1	11
54	So different and still so similar: The plant compound rosmarinic acid mimics bacterial homoserine lactone quorum sensing signals. Communicative and Integrative Biology, 2016, 9, e1156832.	1.4	11

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55	Removal of Hydrocarbons and Other Related Chemicals via the Rhizosphere of Plants. , 2010, , 2575-2581.		9
56	Role of the Transcriptional Regulator ArgR in the Connection between Arginine Metabolism and c-di-GMP Signaling in Pseudomonas putida. Applied and Environmental Microbiology, 2022, 88, e0006422.	3.1	9
57	New insights in the early extracellular events in hydrocarbon and lipid biodegradation. Environmental Microbiology, 2017, 19, 15-18.	3.8	8
58	Genome-Wide Analysis of Targets for Post-Transcriptional Regulation by Rsm Proteins in Pseudomonas putida. Frontiers in Molecular Biosciences, 2021, 8, 624061.	3.5	8
59	<scp>Câ€diâ€GMP</scp> and biofilm are regulated in <i>Pseudomonas putida</i> by the <scp>CfcA</scp>/<scp>CfcR</scp> twoâ€component system in response to salts. Environmental Microbiology, 2022, 24, 158-178.	3.8	8
60	Rhizosphere selection of <i>Pseudomonas putida</i> KT2440 variants with increased fitness associated to changes in gene expression. Environmental Microbiology Reports, 2016, 8, 842-850.	2.4	6
61	Isolation of Pseudomonas Strains with Potential for Protection of Soybean Plants against Saline Stress. Agronomy, 2021, 11, 2236.	3.0	4
62	Proline and Lysine Metabolism. , 2004, , 273-292.		3
63	A novel system for efficient gene expression and monitoring of bacteria in aquatic environments. Environmental Microbiology, 1999, 1, 175-182.	3.8	2
64	In Vivo Gene Expression: The IVET System. , 2004, , 351-366.		2
65	Metabolic engineering, new antibiotics and biofilm viscoelasticity. Microbial Biotechnology, 2010, 3, 10-14.	4.2	2
66	Learning when (and how) to shut up: intercellular signal turnover in <scp><i>X</i></scp><i>anthomonas</i>. Environmental Microbiology, 2016, 18, 314-315.	3.8	2
67	Multicellularity, neoplasias and biofilms. Research in Microbiology, 2009, 160, 85-86.	2.1	1
68	Fatty Acids as Mediators of Intercellular Signaling. , 2016, , 1-13.		1
69	Removal of Hydrocarbons and Other Related Chemicals Via the Rhizosphere of Plants. , 2018, , 1-13.		1
70	Biofilm Stress Responses Associated to Aromatic Hydrocarbons. , 2018, , 105-115.		1
71	Ïƒs regulates pLS 1 maintenance in stationary-phase Escherichia coli. FEMS Microbiology Letters, 1996, 135, 45-50.	1.8	0
72	Getting in touch: microbial molecular devices for cellâ€“cell and cellâ€“surface interactions. Research in Microbiology, 2012, 163, 577-578.	2.1	0

#	Article	IF	Citations
73	Fatty Acids as Mediators of Intercellular Signaling. , 2018, , 273-285.		0
74	Biofilm Stress Responses Associated to Aromatic Hydrocarbons. , 2017, , 1-11.		0
75	Removal of Hydrocarbons and Other Related Chemicals via the Rhizosphere of Plants. , 2019, , 157-169.		0