

# Aurelien L Carlier

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,968  
citations

218677

26  
h-index

265206

42  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel bacteria degrading N-acylhomoserine lactones and their use as quenchers of quorum-sensing-regulated functions of plant-pathogenic bacteria. <i>Microbiology (United Kingdom)</i> , 2003, 149, 1981-1989.	1.8	213
2	The Ti Plasmid of <i>Agrobacterium tumefaciens</i> Harbors an attM-Paralogous Gene, <i>aiiB</i> , Also Encoding N-Acyl Homoserine Lactonase Activity. <i>Applied and Environmental Microbiology</i> , 2003, 69, 4989-4993.	3.1	189
3	Molecular mechanisms underlying the close association between soil <i>Burkholderia</i> and fungi. <i>ISME Journal</i> , 2016, 10, 253-264.	9.8	118
4	N-hexanoyl-l-homoserine lactone, a mediator of bacterial quorum-sensing regulation, exhibits plant-dependent stability and may be inactivated by germinating <i>Lotus corniculatus</i> seedlings. <i>FEMS Microbiology Ecology</i> , 2005, 52, 13-20.	2.7	107
5	Exposing the third chromosome of <i>Burkholderia cepacia</i> complex strains as a virulence plasmid. <i>Molecular Microbiology</i> , 2012, 83, 362-378.	2.5	90
6	The AHL- and BDSF-Dependent Quorum Sensing Systems Control Specific and Overlapping Sets of Genes in <i>Burkholderia cenocepacia</i> H111. <i>PLoS ONE</i> , 2012, 7, e49966.	2.5	70
7	The Assimilation of $\delta^3$ -Butyrolactone in <i>Agrobacterium tumefaciens</i> C58 Interferes with the Accumulation of the N-Acyl-Homoserine Lactone Signal. <i>Molecular Plant-Microbe Interactions</i> , 2004, 17, 951-957.	2.6	69
8	The cell density-dependent expression of stewartan exopolysaccharide in <i>Pantoea stewartii</i> ssp. <i>stewartii</i> is a function of EsaR-mediated repression of the <i>rcaA</i> gene. <i>Molecular Microbiology</i> , 2005, 56, 189-203.	2.5	64
9	The genome analysis of <i>Burkholderia crenata</i> reveals that secondary metabolism may be a key function of the <i>Burkholderia crenata</i> leaf nodule symbiosis. <i>Environmental Microbiology</i> , 2016, 18, 2507-2522.	3.8	64
10	Evidence of horizontal gene transfer between obligate leaf nodule symbionts. <i>ISME Journal</i> , 2016, 10, 2092-2105.	9.8	63
11	The eroded genome of a <i>Psychotria</i> leaf symbiont: hypotheses about lifestyle and interactions with its plant host. <i>Environmental Microbiology</i> , 2012, 14, 2757-2769.	3.8	60
12	<i>Abditibacterium utsteinense</i> sp. nov., the first cultivated member of candidate phylum FBP, isolated from ice-free Antarctic soil samples. <i>Systematic and Applied Microbiology</i> , 2018, 41, 279-290.	2.8	58
13	Heterologous Expression, Biosynthetic Studies, and Ecological Function of the Selective Gq $\epsilon$ Signaling Inhibitor FR900359. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 836-840.	13.8	57
14	Introducing SPeDE: High-Throughput Dereplication and Accurate Determination of Microbial Diversity from Matrix-Assisted Laser Desorption/Ionization Time of Flight Mass Spectrometry Data. <i>MSystems</i> , 2019, 4, .	3.8	53
15	A novel siderophore-independent strategy of iron uptake in the genus <i>Burkholderia</i> . <i>Molecular Microbiology</i> , 2014, 91, 805-820.	2.5	46
16	Leaf nodule symbiosis: function and transmission of obligate bacterial endophytes. <i>Current Opinion in Plant Biology</i> , 2018, 44, 23-31.	7.1	46
17	Isolation and Total Synthesis of Kirkamide, an Aminocyclitol from an Obligate Leaf Nodule Symbiont. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7968-7970.	13.8	44
18	Draft genome and description of <i>Orrella dioscoreae</i> gen. nov. sp. nov., a new species of Alcaligenaceae isolated from leaf acumens of <i>Dioscorea sansibarensis</i> . <i>Systematic and Applied Microbiology</i> , 2017, 40, 11-21.	2.8	42

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19	Identification of Burkholderia cenocepacia Strain H111 Virulence Factors Using Nonmammalian Infection Hosts. Infection and Immunity, 2013, 81, 143-153.	2.2	40
20	Genome Sequence of Burkholderia cenocepacia H111, a Cystic Fibrosis Airway Isolate. Genome Announcements, 2014, 2, .	0.8	39
21	Comparative Genomics of Burkholderia singularis sp. nov., a Low G+C Content, Free-Living Bacterium That Defies Taxonomic Dissection of the Genus Burkholderia. Frontiers in Microbiology, 2017, 8, 1679.	3.5	36
22	Bacterial populations in the rhizosphere of tobacco plants producing the quorum-sensing signals hexanoyl-homoserine lactone and 3-oxo-hexanoyl-homoserine lactone. FEMS Microbiology Ecology, 2004, 51, 19-29.	2.7	34
23	The Third Replicon of Members of the Burkholderia cepacia Complex, Plasmid pC3, Plays a Role in Stress Tolerance. Applied and Environmental Microbiology, 2014, 80, 1340-1348.	3.1	33
24	Structure/Function Analysis of the <i>Pantoea stewartii</i> Quorum-Sensing Regulator EsaR as an Activator of Transcription. Journal of Bacteriology, 2009, 191, 7402-7409.	2.2	31
25	Paenibacillus foliorum sp. nov., Paenibacillus phytohabitans sp. nov., Paenibacillus plantarum sp. nov., Paenibacillus planticolens sp. nov., Paenibacillus phytorum sp. nov. and Paenibacillus germinis sp. nov., isolated from the Arabidopsis thaliana phyllosphere. International Journal of Systematic and Evolutionary Microbiology, 2021, 71, .	1.7	31
26	Identification and characterization of three novel EsaI/EsaR quorum-sensing controlled stewartan exopolysaccharide biosynthetic genes in <i>Pantoea stewartii</i> ssp. <i>stewartii</i> . Molecular Microbiology, 2009, 74, 903-913.	2.5	28
27	Proteomics Analysis of <i>Psychotria</i> Leaf Nodule Symbiosis: Improved Genome Annotation and Metabolic Predictions. Molecular Plant-Microbe Interactions, 2013, 26, 1325-1333.	2.6	27
28	The Essential Genome of Burkholderia cenocepacia H111. Journal of Bacteriology, 2017, 199, .	2.2	24
29	Characterization of the emerging zoonotic pathogen Arcobacter thereius by whole genome sequencing and comparative genomics. PLoS ONE, 2017, 12, e0180493.	2.5	21
30	The rcsA Promoter of Pantoea stewartii subsp. stewartii Features a Low-Level Constitutive Promoter and an EsaR Quorum-Sensing-Regulated Promoter. Journal of Bacteriology, 2006, 188, 4581-4584.	2.2	20
31	The role of siderophores in metal homeostasis of members of the genus <i>Burkholderia</i> . Environmental Microbiology Reports, 2016, 8, 103-109.	2.4	17
32	Adaptations and evolution of a heritable leaf nodule symbiosis between <i>Dioscorea sansibarensis</i> and <i>Orrella dioscoreae</i> . ISME Journal, 2019, 13, 1831-1844.	9.8	17
33	Comparative genomics of Burkholderia multivorans, a ubiquitous pathogen with a highly conserved genomic structure. PLoS ONE, 2017, 12, e0176191.	2.5	17
34	Pedobacter gandavensis sp. nov., Pedobacter foliorum sp. nov. and Pedobacter planticolens sp. nov., isolated from leaves of Arabidopsis thaliana. International Journal of Systematic and Evolutionary Microbiology, 2019, 71, .	1.7	16
35	Synthesis and Biological Evaluation of the Novel Growth Inhibitor Streptol Glucoside, Isolated from an Obligate Plant Symbiont. Chemistry - A European Journal, 2019, 25, 1722-1726.	3.3	13
36	Orrella amnicola sp. nov., isolated from a freshwater river, reclassification of Algicoccus marinus as Orrella marina comb. nov., and emended description of the genus Orrella. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 6381-6389.	1.7	13

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37	Patterns of Nucleotide Deletion and Insertion Inferred from Bacterial Pseudogenes. <i>Genome Biology and Evolution</i> , 2018, 10, 1792-1802.	2.5	12
38	Induction of antibiotic specialized metabolism by co-culturing in a collection of phyllosphere bacteria. <i>Environmental Microbiology</i> , 2021, 23, 2132-2151.	3.8	12
39	Isolation and Total Synthesis of Kirkamide, an Aminocyclitol from an Obligate Leaf Nodule Symbiont. <i>Angewandte Chemie</i> , 2015, 127, 8079-8081.	2.0	10
40	Patterns of transmission and horizontal gene transfer in the <i>Dioscorea sansibarensis</i> leaf symbiosis revealed by whole-genome sequencing. <i>Current Biology</i> , 2021, 31, 2666-2673.e4.	3.9	6
41	Heterologe Expression, Biosynthese und Ökologische Funktion des selektiven Gq-Signaltransduktionsinhibitors FR900359. <i>Angewandte Chemie</i> , 2018, 130, 844-849.	2.0	5
42	PaSiT: a novel approach based on short-oligonucleotide frequencies for efficient bacterial identification and typing. <i>Bioinformatics</i> , 2020, 36, 2337-2344.	4.1	5
43	Microbial Biofilms and Quorum Sensing. , 2015, , 45-52.		4
44	Role of Quorum-Sensing Regulation in Pathogenesis of <i>Pantoea stewartii</i> subsp. <i>stewartii</i> . , 0, , 201-212.		0