

# Caroline L Monteil

## List of Publications by Year in descending order

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39  
papers

1,613  
citations

331538

21  
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345118

36  
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41  
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41  
docs citations

41  
times ranked

1687  
citing authors

#	ARTICLE	IF	CITATIONS
1	A User's Guide to a Data Base of the Diversity of <i>Pseudomonas syringae</i> and Its Application to Classifying Strains in This Phylogenetic Complex. <i>PLoS ONE</i> , 2014, 9, e105547.	1.1	220
2	The Life History of <i>Pseudomonas syringae</i> : Linking Agriculture to Earth System Processes. <i>Annual Review of Phytopathology</i> , 2013, 51, 85-104.	3.5	158
3	Population-genomic insights into emergence, crop adaptation and dissemination of <i>Pseudomonas syringae</i> pathogens. <i>Microbial Genomics</i> , 2016, 2, e000089.	1.0	88
4	Ice nucleation active bacteria in precipitation are genetically diverse and nucleate ice by employing different mechanisms. <i>ISME Journal</i> , 2017, 11, 2740-2753.	4.4	87
5	Nonagricultural reservoirs contribute to emergence and evolution of <i>Pseudomonas syringae</i> crop pathogens. <i>New Phytologist</i> , 2013, 199, 800-811.	3.5	84
6	Features of air masses associated with the deposition of <i>Pseudomonas syringae</i> and <i>Botrytis cinerea</i> by rain and snowfall. <i>ISME Journal</i> , 2014, 8, 2290-2304.	4.4	80
7	Harnessing Population Genomics to Understand How Bacterial Pathogens Emerge, Adapt to Crop Hosts, and Disseminate. <i>Annual Review of Phytopathology</i> , 2014, 52, 19-43.	3.5	67
8	<i>Pseudomonas syringae</i> naturally lacking the canonical type III secretion system are ubiquitous in nonagricultural habitats, are phylogenetically diverse and can be pathogenic. <i>ISME Journal</i> , 2012, 6, 1325-1335.	4.4	58
9	Ectosymbiotic bacteria at the origin of magnetoreception in a marine protist. <i>Nature Microbiology</i> , 2019, 4, 1088-1095.	5.9	57
10	Iron biomineralizing organelle in magnetotactic bacteria: function, synthesis and preservation in ancient rock samples. <i>Environmental Microbiology</i> , 2020, 22, 3611-3632.	1.8	54
11	Magnetotactic bacteria as a new model for P sequestration in the ferruginous Lake Pavin. <i>Geochemical Perspectives Letters</i> , 0, , 35-41.	1.0	54
12	Intracellular amorphous Ca-carbonate and magnetite biomineralization by a magnetotactic bacterium affiliated to the Alphaproteobacteria. <i>ISME Journal</i> , 2021, 15, 1-18.	4.4	52
13	The <i>Pseudomonas viridiflava</i> phylogroups in the <i>Pseudomonas syringae</i> species complex are characterized by genetic variability and phenotypic plasticity of pathogenicity-related traits. <i>Environmental Microbiology</i> , 2014, 16, 2301-2315.	1.8	51
14	Quantification of <i>Vibrio parahaemolyticus</i> , <i>Vibrio vulnificus</i> and <i>Vibrio cholerae</i> in French Mediterranean coastal lagoons. <i>Research in Microbiology</i> , 2013, 164, 867-874.	1.0	50
15	A System to Automatically Classify and Name Any Individual Genome-Sequenced Organism Independently of Current Biological Classification and Nomenclature. <i>PLoS ONE</i> , 2014, 9, e89142.	1.1	49
16	Genomic study of a novel magnetotactic Alphaproteobacteria uncovers the multiple ancestry of magnetotaxis. <i>Environmental Microbiology</i> , 2018, 20, 4415-4430.	1.8	48
17	Human-specific fecal bacteria in wastewater treatment plant effluents. <i>Water Research</i> , 2010, 44, 1873-1883.	5.3	45
18	<i>Desulfamplus magnetovallimortis</i> gen. nov., sp. nov., a magnetotactic bacterium from a brackish desert spring able to biomineralize greigite and magnetite, that represents a novel lineage in the Desulfobacteraceae. <i>Systematic and Applied Microbiology</i> , 2017, 40, 280-289.	1.2	39

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19	Magnetoreception in Microorganisms. <i>Trends in Microbiology</i> , 2020, 28, 266-275.	3.5	35
20	Emigration of the plant pathogen <i>Pseudomonas syringae</i> from leaf litter contributes to its population dynamics in alpine snowpack. <i>Environmental Microbiology</i> , 2012, 14, 2099-2112.	1.8	32
21	Soil water flow is a source of the plant pathogen <i>Pseudomonas syringae</i> in subalpine headwaters. <i>Environmental Microbiology</i> , 2014, 16, 2038-2052.	1.8	26
22	A Proposal for a Genome Similarity-Based Taxonomy for Plant-Pathogenic Bacteria that Is Sufficiently Precise to Reflect Phylogeny, Host Range, and Outbreak Affiliation Applied to <i>Pseudomonas syringae sensu lato</i> as a Proof of Concept. <i>Phytopathology</i> , 2017, 107, 18-28.	1.1	26
23	Repeated horizontal gene transfers triggered parallel evolution of magnetotaxis in two evolutionary divergent lineages of magnetotactic bacteria. <i>ISME Journal</i> , 2020, 14, 1783-1794.	4.4	25
24	Microbial ice nucleators scavenged from the atmosphere during simulated rain events. <i>Atmospheric Environment</i> , 2017, 163, 182-189.	1.9	21
25	The gammaproteobacterium <i>Achromatium</i> forms intracellular amorphous calcium carbonate and not (crystalline) calcite. <i>Geobiology</i> , 2021, 19, 199-213.	1.1	20
26	Accumulation and Dissolution of Magnetite Crystals in a Magnetically Responsive Ciliate. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	17
27	An AlgU-Regulated Antisense Transcript Encoded within the <i>Pseudomonas syringae</i> <i>fleQ</i> Gene Has a Positive Effect on Motility. <i>Journal of Bacteriology</i> , 2018, 200, .	1.0	11
28	<i>Magnetospirillum gryphiswaldense</i> . <i>Trends in Microbiology</i> , 2020, 28, 947-948.	3.5	9
29	Testing Differences Between Pathogen Compositions with Small Samples and Sparse Data. <i>Phytopathology</i> , 2017, 107, 1199-1208.	1.1	7
30	Mass collection of magnetotactic bacteria from the permanently stratified ferruginous Lake Pavin, France. <i>Environmental Microbiology</i> , 2022, 24, 721-736.	1.8	7
31	Identification of novel aphid-killing bacteria to protect plants. <i>Microbial Biotechnology</i> , 2022, 15, 1203-1220.	2.0	6
32	Exploring Protein Space: From Hydrolase to Ligase by Substitution. <i>Molecular Biology and Evolution</i> , 2021, 38, 761-776.	3.5	5
33	Complete Genome Sequence of Strain BW-2, a Magnetotactic Gammaproteobacterium in the Family Ectothiorhodospiraceae, Isolated from a Brackish Spring in Death Valley, California. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.3	4
34	From conservation to structure, studies of magnetosome associated cation diffusion facilitators (CDF) proteins in Proteobacteria. <i>PLoS ONE</i> , 2020, 15, e0231839.	1.1	4
35	Complete Genome Sequence of Strain SS-5, a Magnetotactic Gammaproteobacterium Isolated from the Salton Sea, a Shallow, Saline, Endorheic Rift Lake Located on the San Andreas Fault in California. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.3	4
36	Ice nucleation in a Gram-positive bacterium isolated from precipitation depends on a polyketide synthase and non-ribosomal peptide synthetase. <i>ISME Journal</i> , 2022, 16, 890-897.	4.4	4

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37	<i>Pseudomonas syringae</i> Genomics: From Comparative Genomics of Individual Crop Pathogen Strains Toward Population Genomics. , 2014, , 79-98.		4
38	Biogeochemical Niche of Magnetotactic Cocci Capable of Sequestering Large Polyphosphate Inclusions in the Anoxic Layer of the Lake Pavin Water Column. <i>Frontiers in Microbiology</i> , 2021, 12, 789134.	1.5	3
39	POPULATION GENOMICS OF PSEUDOMONAS SYRINGAE PV. TOMATO TO UNRAVEL EMERGENCE AND MODES AND ROUTES OF TRANSMISSION. <i>Acta Horticulturae</i> , 2015, , 289-292.	0.1	0