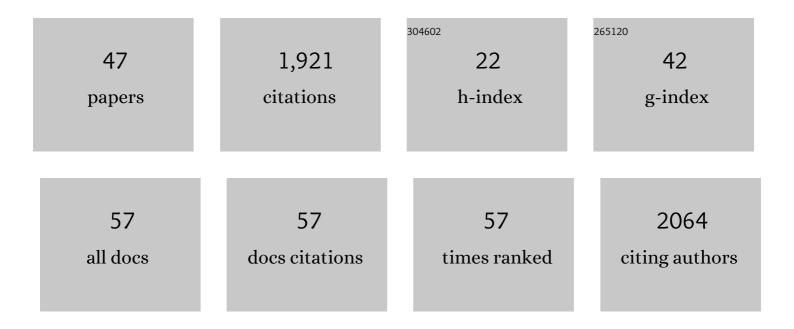
Laurent Deguillaume

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3921858/publications.pdf Version: 2024-02-01



LAUPENT DECHILLAUME

#	Article	IF	CITATIONS
1	Insights into tropical cloud chemistry in Réunion (Indian Ocean): results from the BIO-MAÃĐO campaign. Atmospheric Chemistry and Physics, 2022, 22, 505-533.	1.9	6
2	Free amino acid quantification in cloud water at the Puy de Dôme station (France). Atmospheric Chemistry and Physics, 2022, 22, 2467-2486.	1.9	4
3	Influence of strong iron-binding ligands on cloud water oxidant capacity. Science of the Total Environment, 2022, 829, 154642.	3.9	4
4	Box Model Intercomparison of Cloud Chemistry. Journal of Geophysical Research D: Atmospheres, 2021, 126, .	1.2	7
5	Rainfalls sprinkle cloud bacterial diversity while scavenging biomass. FEMS Microbiology Ecology, 2021, 97, .	1.3	9
6	Anthropogenic and biogenic hydrophobic VOCs detected in clouds at the puy de Dôme station using Stir Bar Sorptive Extraction: Deviation from the Henry's law prediction. Atmospheric Research, 2020, 237, 104844.	1.8	12
7	Classification of Clouds Sampled at the Puy de Dôme Station (France) Based on Chemical Measurements and Air Mass History Matrices. Atmosphere, 2020, 11, 732.	1.0	16
8	Cézeaux-Aulnat-Opme-Puy De Dôme: a multi-site for the long-term survey of the tropospheric composition and climate change. Atmospheric Measurement Techniques, 2020, 13, 3413-3445.	1.2	26
9	Chemical Characterization of Cloudwater Collected at Puy de Dôme by FT-ICR MS Reveals the Presence of SOA Components. ACS Earth and Space Chemistry, 2019, 3, 2076-2087.	1.2	21
10	Effect of endogenous microbiota on the molecular composition of cloud water: a study by Fourier-transform ion cyclotron resonance mass spectrometry (FT-ICR MS). Scientific Reports, 2019, 9, 7663.	1.6	18
11	Metatranscriptomic exploration of microbial functioning in clouds. Scientific Reports, 2019, 9, 4383.	1.6	68
12	Cloud Occurrence Frequency at Puy de Dôme (France) Deduced from an Automatic Camera Image Analysis: Method, Validation, and Comparisons with Larger Scale Parameters. Atmosphere, 2019, 10, 808.	1.0	8
13	Preliminary results from the FARCE 2015 campaign: multidisciplinary study of the forest–gas–aerosol–cloud system on the tropical island of La Réunion. Atmospheric Chemistry and Physics, 2019, 19, 10591-10618.	1.9	16
14	Modeling the partitioning of organic chemical species in cloud phases with CLEPS (1.1). Atmospheric Chemistry and Physics, 2018, 18, 2225-2242.	1.9	12
15	Potential for phenol biodegradation in cloud waters. Biogeosciences, 2018, 15, 5733-5744.	1.3	11
16	Molecular Characterization of Cloud Water Samples Collected at the Puy de Dôme (France) by Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Environmental Science & Technology, 2018, 52, 10275-10285.	4.6	100
17	Clouds: A Transient and Stressing Habitat for Microorganisms. , 2017, , 215-245.		11
18	H ₂ O ₂ modulates the energetic metabolism of the cloud microbiome. Atmospheric Chemistry and Physics, 2017, 17, 14841-14851.	1.9	26

LAURENT DEGUILLAUME

#	Article	IF	CITATIONS
19	Trace Metals in Cloud Water Sampled at the Puy De Dôme Station. Atmosphere, 2017, 8, 225.	1.0	10
20	CLEPS 1.0: A new protocol for cloud aqueous phase oxidation of VOC mechanisms. Geoscientific Model Development, 2017, 10, 1339-1362.	1.3	30
21	Active microorganisms thrive among extremely diverse communities in cloud water. PLoS ONE, 2017, 12, e0182869.	1.1	103
22	Evaluation of Aerosol Chemical Composition Simulations by the WRF-Chem Model at the Puy de Dôme Station (France). Aerosol and Air Quality Research, 2016, 16, 909-917.	0.9	3
23	Tryptophan and tryptophan-like substances in cloud water: Occurrence and photochemical fate. Atmospheric Environment, 2016, 137, 53-61.	1.9	25
24	Siderophores in Cloud Waters and Potential Impact on Atmospheric Chemistry: Production by Microorganisms Isolated at the Puy de Dôme Station. Environmental Science & Technology, 2016, 50, 9315-9323.	4.6	25
25	Improving the characterization of dissolved organic carbon in cloud water: Amino acids and their impact on the oxidant capacity. Scientific Reports, 2016, 6, 37420.	1.6	34
26	Screening of cloud microorganisms isolated at the Puy de Dôme (France) station for the production of biosurfactants. Atmospheric Chemistry and Physics, 2016, 16, 12347-12358.	1.9	35
27	Regional Modeling of Aerosol Chemical Composition at the Puy de Dôme (France). Springer Proceedings in Complexity, 2016, , 49-53.	0.2	0
28	Survival of microbial isolates from clouds toward simulated atmospheric stress factors. Atmospheric Environment, 2015, 117, 92-98.	1.9	55
29	Impact of Aerosol Properties on Cloud and Precipitation Formation. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 153-158.	0.1	0
30	Evaluation of Cloud Chemistry Mechanism Towards Laboratory Experiments. Springer Proceedings in Complexity, 2014, , 137-141.	0.2	0
31	Ice nucleation activity of bacteria isolated from cloud water. Atmospheric Environment, 2013, 70, 392-400.	1.9	115
32	Evaluation of modeled cloud chemistry mechanism against laboratory irradiation experiments: The HxOy/iron/carboxylic acid chemical system. Atmospheric Environment, 2013, 77, 686-695.	1.9	26
33	Potential impact of microbial activity on the oxidant capacity and organic carbon budget in clouds. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 559-564.	3.3	153
34	Atmospheric Aqueousâ€Phase Photoreactivity: Correlation Between the Hydroxyl Radical Photoformation and Pesticide Degradation Rate in Atmospherically Relevant Waters. Photochemistry and Photobiology, 2012, 88, 32-37.	1.3	5
35	Long-term features of cloud microbiology at the puy de Dôme (France). Atmospheric Environment, 2012, 56, 88-100.	1.9	138
36	Mechanism of carboxylic acid photooxidation in atmospheric aqueous phase: Formation, fate and reactivity. Atmospheric Environment, 2012, 56, 1-8.	1.9	76

LAURENT DEGUILLAUME

#	Article	IF	CITATIONS
37	Hydrogen peroxide in natural cloud water: Sources and photoreactivity. Atmospheric Research, 2011, 101, 256-263.	1.8	40
38	Sensitive determination of glyoxal, methylglyoxal and hydroxyacetaldehyde in environmental water samples by using dansylacetamidooxyamine derivatization and liquid chromatography/fluorescence. Analytica Chimica Acta, 2011, 704, 162-173.	2.6	25
39	Biotransformation of methanol and formaldehyde by bacteria isolated from clouds. Comparison with radical chemistry. Atmospheric Environment, 2011, 45, 6093-6102.	1.9	38
40	Effect of iron dissolution on cloud chemistry: from laboratory measurements to model results. Atmospheric Pollution Research, 2010, 1, 220-228.	1.8	32
41	A short overview of the microbial population in clouds: Potential roles in atmospheric chemistry and nucleation processes. Atmospheric Research, 2010, 98, 249-260.	1.8	165
42	Towards an operational aqueous phase chemistry mechanism for regional chemistry-transport models: CAPRAM-RED and its application to the COSMO-MUSCAT model. Journal of Atmospheric Chemistry, 2009, 64, 1-35.	1.4	25
43	Numerical quantification of sources and phase partitioning of chemical species in cloud: application to wintertime anthropogenic air masses at the Puy de DÃ me station. Journal of Atmospheric Chemistry, 2007, 57, 281-297.	1.4	18
44	Transition Metals in Atmospheric Liquid Phases. Sources, Reactivity, and Sensitive Parameters. ChemInform, 2005, 36, no.	0.1	5
45	Transition Metals in Atmospheric Liquid Phases:Â Sources, Reactivity, and Sensitive Parameters. Chemical Reviews, 2005, 105, 3388-3431.	23.0	267
46	Impact of radical versus non-radical pathway in the Fenton chemistry on the iron redox cycle in clouds. Chemosphere, 2005, 60, 718-724.	4.2	70
47	Modeling study of strong acids formation and partitioning in a polluted cloud during wintertime. Journal of Geophysical Research, 2003, 108, .	3.3	23