

Benjamin Loubet

List of Publications by Year in descending order

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Version: 2024-02-01

128
papers

5,904
citations

87888

38
h-index

95266

68
g-index

160
all docs

160
docs citations

160
times ranked

6368
citing authors

#	ARTICLE	IF	CITATIONS
1	A multiresidue analytical method on air and rainwater for assessing pesticide atmospheric contamination in untreated areas. <i>Science of the Total Environment</i> , 2022, 823, 153582.	8.0	6
2	Global maps of soil temperature. <i>Global Change Biology</i> , 2022, 28, 3110-3144.	9.5	113
3	Volatile organic compound fluxes over a winter wheat field by PTR-Qi-TOF-MS and eddy covariance. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2817-2842.	4.9	8
4	Chemical identification and quantification of volatile organic compounds emitted by sewage sludge. <i>Science of the Total Environment</i> , 2022, 838, 155948.	8.0	4
5	New particle formation from agricultural recycling of organic waste products. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	6.8	9
6	Temporal mosaicking approaches of Sentinel-2 images for extending topsoil organic carbon content mapping in croplands. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2021, 96, 102277.	2.8	33
7	Short-Term Effect of Green Waste and Sludge Amendment on Soil Microbial Diversity and Volatile Organic Compound Emissions. <i>Applied Microbiology</i> , 2021, 1, 123-141.	1.6	2
8	Cross-correlations of Biogenic Volatile Organic Compounds (BVOC) emissions typify different phenological stages and stressful events in a Mediterranean Sorghum plantation. <i>Agricultural and Forest Meteorology</i> , 2021, 303, 108380.	4.8	8
9	Ammonia, nitrous oxide, carbon dioxide, and water vapor fluxes after green manuring of faba bean under Mediterranean climate. <i>Agriculture, Ecosystems and Environment</i> , 2021, 315, 107439.	5.3	11
10	Measurement report: Biogenic volatile organic compound emission profiles of rapeseed leaf litter and its secondary organic aerosol formation potential. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12613-12629.	4.9	4
11	Improving the simulation of soil temperature within the EPIC model. <i>Environmental Modelling and Software</i> , 2021, 144, 105140.	4.5	5
12	Effect of senescence on biogenic volatile organic compound fluxes in wheat plants. <i>Atmospheric Environment</i> , 2021, 266, 118665.	4.1	2
13	Characterization of particulate and gaseous pollutants from a French dairy and sheep farm. <i>Science of the Total Environment</i> , 2020, 712, 135598.	8.0	11
14	Modelling and inference of maize pollen emission rate with a Lagrangian dispersal model using Monte Carlo method. <i>Journal of Agricultural Science</i> , 2020, 158, 383-395.	1.3	3
15	Monoterpene Chemical Speciation with High Time Resolution Using a FastGC/PTR-MS: Results from the COV3ER Experiment on <i>Quercus ilex</i> . <i>Atmosphere</i> , 2020, 11, 690.	2.3	6
16	Influence of Dynamic Ozone Dry Deposition on Ozone Pollution. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032398.	3.3	34
17	Validation of Space-Based Albedo Products from Upscaled Tower-Based Measurements Over Heterogeneous and Homogeneous Landscapes. <i>Remote Sensing</i> , 2020, 12, 833.	4.0	14
18	Characterization of Total OH Reactivity in a Rapeseed Field: Results from the COV3ER Experiment in April 2017. <i>Atmosphere</i> , 2020, 11, 261.	2.3	5

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19	Neural Network Analysis to Evaluate Ozone Damage to Vegetation Under Different Climatic Conditions. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	2.3	6
20	Reduced microbial diversity induces larger volatile organic compound emissions from soils. <i>Scientific Reports</i> , 2020, 10, 6104.	3.3	39
21	Mechanisms of Pollutant Exchange at Soil-Vegetation-Atmosphere Interfaces and Atmospheric Fate. , 2020, , 61-96.		1
22	Reducing the Impacts of Agriculture on Air Quality. , 2020, , 245-282.		0
23	Measuring Air Pollutant Concentrations and Fluxes. , 2020, , 119-157.		1
24	Modelling Exchanges: From the Process Scale to the Regional Scale. , 2020, , 159-207.		1
25	Comparative study of biogenic volatile organic compounds fluxes by wheat, maize and rapeseed with dynamic chambers over a short period in northern France. <i>Atmospheric Environment</i> , 2019, 214, 116855.	4.1	18
26	The Impact of Acquisition Date on the Prediction Performance of Topsoil Organic Carbon from Sentinel-2 for Croplands. <i>Remote Sensing</i> , 2019, 11, 2143.	4.0	42
27	Assessment of CH ₄ and CO ₂ surface emissions from Polesgo's landfill (Ouagadougou, Burkina Faso) based on static chamber method. <i>Advances in Climate Change Research</i> , 2019, 10, 181-191.	5.1	26
28	Modelling land-atmosphere daily exchanges of NO, NH ₃ , and CO ₂ in a semi-arid grazed ecosystem in Senegal. <i>Biogeosciences</i> , 2019, 16, 2049-2077.	3.3	10
29	Nitrogen use efficiency and N ₂ O and NH ₃ losses attributed to three fertiliser types applied to an intensively managed silage crop. <i>Biogeosciences</i> , 2019, 16, 4731-4745.	3.3	14
30	Soil ozone deposition: Dependence of soil resistance to soil texture. <i>Atmospheric Environment</i> , 2019, 199, 202-209.	4.1	13
31	Impact of parameterization choices on the restitution of ozone deposition over vegetation. <i>Atmospheric Environment</i> , 2018, 178, 49-65.	4.1	6
32	The ALFAM2 database on ammonia emission from field-applied manure: Description and illustrative analysis. <i>Agricultural and Forest Meteorology</i> , 2018, 258, 66-79.	4.8	57
33	Characterization of ozone deposition to a mixed oak-hornbeam forest flux measurements at five levels above and inside the canopy and their interactions with nitric oxide. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17945-17961.	4.9	19
34	Evaluation of a new inference method for estimating ammonia volatilisation from multiple agronomic plots. <i>Biogeosciences</i> , 2018, 15, 3439-3460.	3.3	12
35	Profiles of volatile organic compound emissions from soils amended with organic waste products. <i>Science of the Total Environment</i> , 2018, 636, 1333-1343.	8.0	35
36	Importance of soil NO emissions for the total atmospheric NO _x budget of Saxony, Germany. <i>Atmospheric Environment</i> , 2017, 152, 61-76.	4.1	21

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37	Chemical reaction rates of ozone in water infusions of wheat, beech, oak and pine leaves of different ages. <i>Atmospheric Environment</i> , 2017, 151, 176-187.	4.1	20
38	Soil and vegetation-atmosphere exchange of NO, NH ₃ , and N ₂ O from field measurements in a semi arid grazed ecosystem in Senegal. <i>Atmospheric Environment</i> , 2017, 156, 36-51.	4.1	17
39	Investigating sources of measured forest-atmosphere ammonia fluxes using two-layer bi-directional modelling. <i>Agricultural and Forest Meteorology</i> , 2017, 237-238, 80-94.	4.8	21
40	Observed volatilization fluxes of S-metolachlor and benoxacor applied on soil with and without crop residues. <i>Environmental Science and Pollution Research</i> , 2017, 24, 3985-3996.	5.3	15
41	Evaluation of new flux attribution methods for mapping N ₂ O emissions at the landscape scale. <i>Agriculture, Ecosystems and Environment</i> , 2017, 247, 9-22.	5.3	4
42	Diurnal fluxes of HONO above a crop rotation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6907-6923.	4.9	37
43	Nitrogen oxides and ozone fluxes from an oilseed-rape management cycle: the influence of cattle slurry application. <i>Biogeosciences</i> , 2017, 14, 2225-2244.	3.3	14
44	ORCHIDEE-CROP (v0), a new process-based agro-land surface model: model description and evaluation over Europe. <i>Geoscientific Model Development</i> , 2016, 9, 857-873.	3.6	51
45	Simulating the net ecosystem CO ₂ exchange and its components over winter wheat cultivation sites across a large climate gradient in Europe using the ORCHIDEE-STICS generic model. <i>Agriculture, Ecosystems and Environment</i> , 2016, 226, 1-17.	5.3	11
46	A top-down approach of surface carbonyl sulfide exchange by a Mediterranean oak forest ecosystem in southern France. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14909-14923.	4.9	16
47	Characterization of total ecosystem-scale biogenic VOC exchange at a Mediterranean oak-hornbeam forest. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7171-7194.	4.9	24
48	Varying applicability of four different satellite-derived soil moisture products to global gridded crop model evaluation. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016, 48, 51-60.	2.8	16
49	Global parameterization and validation of a two-leaf light use efficiency model for predicting gross primary production across FLUXNET sites. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1045-1072.	3.0	93
50	A modeling study on mitigation of N ₂ O emissions and NO ₃ leaching at different agricultural sites across Europe using LandscapeDNDC. <i>Science of the Total Environment</i> , 2016, 553, 128-140.	8.0	52
51	Multilayer modelling of ozone fluxes on winter wheat reveals large deposition on wet senescing leaves. <i>Agricultural and Forest Meteorology</i> , 2015, 211-212, 58-71.	4.8	20
52	Investigating sources and sinks for ammonia exchanges between the atmosphere and a wheat canopy following slurry application with trailing hose. <i>Agricultural and Forest Meteorology</i> , 2015, 207, 11-23.	4.8	21
53	Modelling Atmosphere-Biosphere Exchange of Ozone and Nitrogen Oxides. , 2015, , 85-105.		4
54	In-Canopy Turbulence"State of the Art and Potential Improvements. , 2015, , 215-223.		0

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55	O3 and NOx Exchange. , 2015, , 163-167.		0
56	Net carbon storage measured in a mowed and grazed temperate sown grassland shows potential for carbon sequestration under grazed system. Carbon Management, 2014, 5, 131-144.	2.4	36
57	Modelling agro-forestry scenarios for ammonia abatement in the landscape. Environmental Research Letters, 2014, 9, 125001.	5.2	14
58	Ammonia volatilisation following urea fertilisation in an irrigated sorghum crop in Italy. Agricultural and Forest Meteorology, 2014, 195-196, 179-191.	4.8	18
59	Concentrations and fluxes of isoprene and oxygenated VOCs at a French Mediterranean oak forest. Atmospheric Chemistry and Physics, 2014, 14, 10085-10102.	4.9	50
60	Inverse dispersion modelling highlights the efficiency of slurry injection to reduce ammonia losses by agriculture in the Po Valley (Italy). Agricultural and Forest Meteorology, 2013, 171-172, 306-318.	4.8	26
61	HONO Emissions from Soil Bacteria as a Major Source of Atmospheric Reactive Nitrogen. Science, 2013, 341, 1233-1235.	12.6	276
62	Investigating discrepancies in heat, CO2 fluxes and O3 deposition velocity over maize as measured by the eddy-covariance and the aerodynamic gradient methods. Agricultural and Forest Meteorology, 2013, 169, 35-50.	4.8	24
63	Gaseous Deposition Contributes to the Contamination of Surface Waters by Pesticides Close to Treated Fields. A Process-Based Model Study. Environmental Science & Technology, 2013, 47, 14250-14257.	10.0	9
64	Towards a climate-dependent paradigm of ammonia emission and deposition. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130166.	4.0	328
65	Assessment of the total, stomatal, cuticular, and soil 2% year ozone budgets of an agricultural field with winter wheat and maize crops. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 1120-1132.	3.0	21
66	Advances in understanding, models and parameterizations of biosphere-atmosphere ammonia exchange. Biogeosciences, 2013, 10, 5183-5225.	3.3	116
67	Advances in Understanding, Models and Parameterizations of Biosphere-Atmosphere Ammonia Exchange. , 2013, , 11-84.		5
68	Gaseous emissions at different space scales in the nitrogen cycle: A review. Cahiers Agricultures, 2013, 22, 258-271.	0.9	2
69	D'p't de polluants sur les espaces agricoles Ā proximit' des voies de transport en Āle-de-France. Vertigo: La Revue Electronique En Sciences De L'environnement, 2013, , .	0.1	1
70	Accounting for Surface Cattle Slurry in Ammonia Volatilization Models: The Case of Volt'Air. Soil Science Society of America Journal, 2012, 76, 2184-2194.	2.2	11
71	Comparison of methods for the determination of NO-O<sub>3</sub>-NO<sub>2</sub> fluxes and chemical interactions over a bare soil. Atmospheric Measurement Techniques, 2012, 5, 1241-1257.	3.1	36
72	Eddy covariance measurement of ammonia fluxes: Comparison of high frequency correction methodologies. Agricultural and Forest Meteorology, 2012, 158-159, 30-42.	4.8	42

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73	Investigating the stomatal, cuticular and soil ammonia fluxes over a growing tritical crop under high acidic loads. <i>Biogeosciences</i> , 2012, 9, 1537-1552.	3.3	32
74	Are ammonia emissions from field-applied slurry substantially over-estimated in European emission inventories?. <i>Biogeosciences</i> , 2012, 9, 1611-1632.	3.3	50
75	Biophysical characteristics of maize pollen: Variability during emission and consequences on cross-pollination risks. <i>Field Crops Research</i> , 2012, 127, 51-63.	5.1	8
76	Modelling diurnal and seasonal patterns of maize pollen emission in relation to meteorological factors. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 11-21.	4.8	24
77	Effect of management, climate and soil conditions on N ₂ O and NO emissions from an arable crop rotation using high temporal resolution measurements. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 228-240.	4.8	143
78	Modelling ozone deposition fluxes: The relative roles of deposition and detoxification processes. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 480-492.	4.8	38
79	Ozone deposition onto bare soil: A new parameterisation. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 669-681.	4.8	49
80	Predicting and mitigating the net greenhouse gas emissions of crop rotations in Western Europe. <i>Agricultural and Forest Meteorology</i> , 2011, 151, 1654-1671.	4.8	33
81	Predicting and partitioning ozone fluxes to maize crops from sowing to harvest: the Surf _{atm-O₃} model. <i>Biogeosciences</i> , 2011, 8, 2869-2886.	3.3	54
82	Dissolved carbon leaching from soil is a crucial component of the net ecosystem carbon balance. <i>Global Change Biology</i> , 2011, 17, 1167-1185.	9.5	374
83	Carbon, nitrogen and Greenhouse gases budgets over a four years crop rotation in northern France. <i>Plant and Soil</i> , 2011, 343, 109-137.	3.7	111
84	Variability in carbon exchange of European croplands. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 325-335.	5.3	71
85	Predicting the net carbon exchanges of crop rotations in Europe with an agro-ecosystem model. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 384-395.	5.3	42
86	Management effects on European cropland respiration. <i>Agriculture, Ecosystems and Environment</i> , 2010, 139, 346-362.	5.3	58
87	Model of stomatal ammonia compensation point (STAMP) in relation to the plant nitrogen and carbon metabolisms and environmental conditions. <i>Ecological Modelling</i> , 2010, 221, 479-494.	2.5	36
88	An inverse model to estimate ammonia emissions from fields. <i>European Journal of Soil Science</i> , 2010, 61, 793-805.	3.9	50
89	Climate control of terrestrial carbon exchange across biomes and continents. <i>Environmental Research Letters</i> , 2010, 5, 034007.	5.2	137
90	Fungicide Volatilization Measurements: Inverse Modeling, Role of Vapor Pressure, and State of Foliar Residue. <i>Environmental Science & Technology</i> , 2010, 44, 2522-2528.	10.0	25

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91	Ammonia sources and sinks in an intensively managed grassland canopy. <i>Biogeosciences</i> , 2009, 6, 1903-1915.	3.3	48
92	Inter-comparison of ammonia fluxes obtained using the Relaxed Eddy Accumulation technique. <i>Biogeosciences</i> , 2009, 6, 2575-2588.	3.3	39
93	Dynamics of ammonia exchange with cut grassland: strategy and implementation of the GRAMINAE Integrated Experiment. <i>Biogeosciences</i> , 2009, 6, 309-331.	3.3	51
94	Advection of NH_3 over a pasture field and its effect on gradient flux measurements. <i>Biogeosciences</i> , 2009, 6, 1295-1309.	3.3	29
95	SURFATM-NH ₃ : a model combining the surface energy balance and bi-directional exchanges of ammonia applied at the field scale. <i>Biogeosciences</i> , 2009, 6, 1371-1388.	3.3	61
96	Temporal variability in bioassays of the stomatal ammonia compensation point in relation to plant and soil nitrogen parameters in intensively managed grassland. <i>Biogeosciences</i> , 2009, 6, 171-179.	3.3	64
97	Dynamics of ammonia exchange with cut grassland: synthesis of results and conclusions of the GRAMINAE Integrated Experiment. <i>Biogeosciences</i> , 2009, 6, 2907-2934.	3.3	55
98	Ammonia fluxes in relation to cutting and fertilization of an intensively managed grassland derived from an inter-comparison of gradient measurements. <i>Biogeosciences</i> , 2009, 6, 819-834.	3.3	52
99	Turbulence characteristics in grassland canopies and implications for tracer transport. <i>Biogeosciences</i> , 2009, 6, 1519-1537.	3.3	27
100	Estimation of NH_3 emissions from a naturally ventilated livestock farm using local-scale atmospheric dispersion modelling. <i>Biogeosciences</i> , 2009, 6, 2847-2860.	3.3	19
101	Characterisation of soil emissions of nitric oxide at field and laboratory scale using high resolution method. <i>Atmospheric Environment</i> , 2009, 43, 2648-2658.	4.1	29
102	Atmospheric composition change: Ecosystems' Atmosphere interactions. <i>Atmospheric Environment</i> , 2009, 43, 5193-5267.	4.1	609
103	Ammonia stomatal compensation point of young oilseed rape leaves during dark/light cycles under various nitrogen nutritions. <i>Agriculture, Ecosystems and Environment</i> , 2009, 133, 170-182.	5.3	14
104	Partitioning of ozone deposition over a developed maize crop between stomatal and non-stomatal uptakes, using eddy-covariance flux measurements and modelling. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1385-1396.	4.8	60
105	Ammonia Deposition Near Hot Spots: Processes, Models and Monitoring Methods. , 2009, , 205-267.		38
106	Intercomparison and assessment of turbulent and physiological exchange parameters of grassland. <i>Biogeosciences</i> , 2009, 6, 1445-1466.	3.3	33
107	Measurement and modelling ozone fluxes over a cut and fertilized grassland. <i>Biogeosciences</i> , 2009, 6, 1987-1999.	3.3	21
108	Assessment Methods for Ammonia Hot-Spots. , 2009, , 391-407.		0

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109	Relationship between ammonia stomatal compensation point and nitrogen metabolism in arable crops: Current status of knowledge and potential modelling approaches. <i>Environmental Pollution</i> , 2008, 154, 390-403.	7.5	43
110	Challenges in quantifying biosphere-atmosphere exchange of nitrogen species. <i>Environmental Pollution</i> , 2007, 150, 125-139.	7.5	203
111	Filtering of windborne particles by a natural windbreak. <i>Boundary-Layer Meteorology</i> , 2007, 123, 481-509.	2.3	24
112	A method for measuring the settling velocity distribution of large biotic particles. <i>Aerobiologia</i> , 2007, 23, 159-169.	1.7	15
113	A coupled dispersion and exchange model for short-range dry deposition of atmospheric ammonia. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006, 132, 1733-1763.	2.7	47
114	Variations in Maize Pollen Emission and Deposition in Relation to Microclimate. <i>Environmental Science & Technology</i> , 2005, 39, 4377-4384.	10.0	67
115	Modelling airborne concentration and deposition rate of maize pollen. <i>Atmospheric Environment</i> , 2004, 38, 5555-5566.	4.1	80
116	Measurement of short-range dispersion and deposition of ammonia over a maize canopy. <i>Agricultural and Forest Meteorology</i> , 2003, 114, 175-196.	4.8	4
117	Field measurements of airborne concentration and deposition rate of maize pollen. <i>Agricultural and Forest Meteorology</i> , 2003, 119, 37-51.	4.8	107
118	Seasonal variability of apoplastic NH ₄ ⁺ and pH in an intensively managed grassland. <i>Plant and Soil</i> , 2002, 238, 97-110.	3.7	64
119	Fluxes of NH ₃ and CO ₂ over upland moorland in the vicinity of agricultural land. <i>Journal of Geophysical Research</i> , 2001, 106, 24169-24181.	3.3	43
120	Investigation of the interaction between sources and sinks of atmospheric ammonia in an upland landscape using a simplified dispersion-exchange model. <i>Journal of Geophysical Research</i> , 2001, 106, 24183-24195.	3.3	71
121	Title is missing!. <i>Water, Air and Soil Pollution</i> , 2001, 1, 157-166.	0.8	9
122	Title is missing!. <i>Plant and Soil</i> , 2001, 228, 131-145.	3.7	79
123	Comparison of Gas Exchange and Bioassay Determinations of the Ammonia Compensation Point in <i>Luzula sylvatica</i> (Huds.) Gaud.. <i>Plant Physiology</i> , 2001, 125, 476-487.	4.8	44
124	Experimental Assessment of Atmospheric Ammonia Dispersion and Short Range Dry Deposition in a Maize Canopy. , 2001, , 157-166.		2
125	An Evaluation of the Wind-tunnel Technique for Estimating Ammonia Volatilization from Land: Part 1. Analysis and Improvement of Accuracy. <i>Biosystems Engineering</i> , 1999, 72, 71-81.	0.4	40
126	An Evaluation of the Wind-tunnel Technique for Estimating Ammonia Volatilization from Land: Part 2. Influence of the Tunnel on Transfer Processes. <i>Biosystems Engineering</i> , 1999, 72, 83-92.	0.4	22

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127	The mass budget of atmospheric ammonia in woodland within 1 km of livestock buildings. Environmental Pollution, 1998, 102, 343-348.	7.5	133
128	Nitrogen flows and fate in rural landscapes. , 0, , 229-248.		10