LÃ¡szlÃ³ Haszpra

List of Publications by Year
in descending order

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66 papers	2,795 citations	236612 25 h-index	197535 49 g-index
87 all docs	87 docs citations	87 times ranked	3624 citing authors

#	Article	IF	Citations
1	Partitioning European grassland net ecosystem CO2 exchange into gross primary productivity and ecosystem respiration using light response function analysis. Agriculture, Ecosystems and Environment, 2007, 121, 93-120.	2.5	305
2	CO₂ surface fluxes at grid point scale estimated from a global 21 year reanalysis of atmospheric measurements. Journal of Geophysical Research, 2010, 115, .	3.3	276
3	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. Global Change Biology, 2010, 16, 1317-1337.	4.2	223
4	Comparing atmospheric transport models for future regional inversions over Europe â€“ Part 1: mapping the atmospheric CO₂ signals. Atmospheric Chemistry and Physics, 2007, 7, 3461-3479.	1.9	148
5	Climate control of terrestrial carbon exchange across biomes and continents. Environmental Research Letters, 2010, 5, 034007.	2.2	137
6	Productivity, Respiration, and Light-Response Parameters of World Grassland and Agroecosystems Derived From Flux-Tower Measurements. Rangeland Ecology and Management, 2010, 63, 16-39.	1.1	133
7	On the Spatial Distribution and Seasonal Variation of Lower-Troposphere Ozone over Europe. Journal of Atmospheric Chemistry, 1997, 28, 11-28.	1.4	101
8	Top-down estimates of European CH₄ and N₂O emissions based on four different inverse models. Atmospheric Chemistry and Physics, 2015, 15, 715-736.	1.9	92
9	Global CO₂fluxes inferred from surface air-sample measurements and from TCCON retrievals of the CO₂total column. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	85
10	Inverse modelling of European CH₄ emissions during 2006â€“2012 using different inverse models and reassessed atmospheric observations. Atmospheric Chemistry and Physics, 2018, 18, 901-920.	1.9	77
11	Measuring system for the long-term monitoring of biosphere/atmosphere exchange of carbon dioxide. Journal of Geophysical Research, 2001, 106, 3057-3069.	3.3	72
12	Spatial representativeness of tall tower eddy covariance measurements using remote sensing and footprint analysis. Agricultural and Forest Meteorology, 2009, 149, 795-807.	1.9	71
13	Development of the Biome-BGC model for simulation of managed herbaceous ecosystems. Ecological Modelling, 2012, 226, 99-119.	1.2	70
14	Regional carbon dioxide fluxes from mixing ratio data. Tellus, Series B: Chemical and Physical Meteorology, 2004, 56, 301-311.	0.8	66
15	Inverse modelling of European N₂O emissions: assimilating observations from different networks. Atmospheric Chemistry and Physics, 2011, 11, 2381-2398.	1.9	63
16	Regional inversion of CO₂ ecosystem fluxes from atmospheric measurements: reliability of the uncertainty estimates. Atmospheric Chemistry and Physics, 2013, 13, 9039-9056.	1.9	60
17	Long-term tall tower carbon dioxide flux monitoring over an area of mixed vegetation. Agricultural and Forest Meteorology, 2005, 132, 58-77.	1.9	56
18	Trends and temporal variations of major greenhouse gases at a rural site in Central Europe. Atmospheric Environment, 2008, 42, 8707-8716.	1.9	50

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19	Terrestrial ecosystem process model Biome-BGCMuSo v4.0: summary of improvements and new modeling possibilities. Geoscientific Model Development, 2016, 9, 4405-4437.	1.3	50
20	TransCom N₂O model inter-comparison â€“ Part 2: Atmospheric inversion estimates of N₂O emissions. Atmospheric Chemistry and Physics, 2014, 14, 6177-6194.	1.9	49
21	European Emissions of Halogenated Greenhouse Gases Inferred from Atmospheric Measurements. Environmental Science & Technology, 2012, 46, 217-225.	4.6	48
22	A recent build-up of atmospheric CO₂ over Europe. Part 1: observed signals and possible explanations. Tellus, Series B: Chemical and Physical Meteorology, 2022, 62, 1.	0.8	40
23	Stable isotope compositions of speleothems from the last interglacial â€“ Spatial patterns of climate fluctuations in Europe. Quaternary Science Reviews, 2017, 161, 68-80.	1.4	36
24	Simulation of the dispersion of nuclear contamination using an adaptive Eulerian grid model. Journal of Environmental Radioactivity, 2004, 75, 59-82.	0.9	32
25	The fingerprint of the summer 2018 drought in Europe on ground-based atmospheric CO₂measurements. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190513.	1.8	31
26	Carbon exchange of grass in Hungary. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 187-196.	0.8	29
27	On the representativeness of carbon dioxide measurements. Journal of Geophysical Research, 1999, 104, 26953-26960.	3.3	27
28	Non-methane hydrocarbon and aldehyde measurements in Budapest, Hungary. Atmospheric Environment Part A General Topics, 1991, 25, 2103-2110.	1.3	25
29	Stable isotope compositions of CO2in background air and at polluted sites in Hungary. Rapid Communications in Mass Spectrometry, 2002, 16, 797-804.	0.7	25
30	Moisture source diagnostics and isotope characteristics for precipitation in east Hungary: implications for their relationship. Hydrological Sciences Journal, 2017, 62, 2049-2060.	1.2	25
31	Technical note: A high-resolution inverse modelling technique for estimating surface CO₂ fluxes based on the NIES-TMâ€“FLEXPART coupled transport model and its adjoint. Atmospheric Chemistry and Physics, 2021, 21, 1245-1266.	1.9	23
32	Modelling ozone fluxes over Hungary. Atmospheric Environment, 2004, 38, 6211-6222.	1.9	19
33	Variation of CO₂ mole fraction in the lower free troposphere, in the boundary layer and at the surface. Atmospheric Chemistry and Physics, 2012, 12, 8865-8875.	1.9	19
34	Temporal Variation of Atmospheric Fossil and Modern CO₂Excess at a Central European Rural Tower Station between 2008 and 2014. Radiocarbon, 2018, 60, 1285-1299.	0.8	18
35	Tracking changes in carbon monoxide budget over Europe between 1995 and 2000. Atmospheric Environment, 2005, 39, 7297-7306.	1.9	13
36	On the atmospheric sulfur budget over Europe. Atmospheric Environment, 1978, 12, 2273-2277.	1.1	12

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37	Elemental concentrations and regional signatures in atmospheric aerosols over Hungary. Physica Scripta, 1988, 37, 299-304.	1.2	12
38	Fossil fuel CO2 estimation by atmospheric 14C measurement and CO2 mixing ratios in the city of Debrecen, Hungary. Journal of Radioanalytical and Nuclear Chemistry, 2010, 286, 471-476.	0.7	12
39	Atmospheric Fossil Fuel CO2 Measurement Using a Field Unit in a Central European City During the Winter of 2008/09. Radiocarbon, 2010, 52, 835-845.	0.8	12
40	First results of tall tower based nitrous oxide flux monitoring over an agricultural region in Central Europe. Atmospheric Environment, 2018, 176, 240-251.	1.9	12
41	The assessment of the seasonal contribution of the anthropogenic sources to the carbon monoxide budget in Europe. Atmospheric Environment, 2004, 38, 4147-4154.	1.9	11
42	Modelling photochemical air pollutant formation in Hungary using an adaptive grid technique. International Journal of Environment and Pollution, 2009, 36, 44.	0.2	11
43	Spectral analysis of boundary layer ozone data from the EUROTRAC TOR network. Journal of Geophysical Research, 2004, 109, .	3.3	10
44	Carbon dioxide concentration measurements at a rural site in Hungary. Tellus, Series B: Chemical and Physical Meteorology, 1995, 47, 17-22.	0.8	9
45	Estimation of greenhouse gas emission factors based on observed covariance of CO2, CH4, N2O and CO mole fractions. Environmental Sciences Europe, 2019, 31, .	2.6	9
46	How well do tall-tower measurements characterize the CO₂ mole fraction distribution in the planetary boundary layer?. Atmospheric Measurement Techniques, 2015, 8, 1657-1671.	1.2	8
47	History and Sites of Atmospheric Greenhouse Gas Monitoring in Hungary. , 2011, , 9-27.		8
48	Climate variability as reflected in a regional atmospheric CO2 record. Tellus, Series B: Chemical and Physical Meteorology, 2010, 62, 417-426.	0.8	7
49	Evidence for Nearly Complete Decoupling of Very Stable Nocturnal Boundary Layer Overland. Boundary-Layer Meteorology, 2011, 138, 163-170.	1.2	7
50	Effect of the soil wetness state on the stomatal ozone fluxes over Hungary. International Journal of Environment and Pollution, 2009, 36, 180.	0.2	6
51	One-Year-Long Continuous and Synchronous Data Set of Fossil Carbon in Atmospheric PM_{2.5} and Carbon Dioxide in Debrecen, Hungary. Radiocarbon, 2015, 57, 991-1002.	0.8	6
52	Analysis of the 21-years long carbon dioxide flux dataset from a Central European tall tower site. Agricultural and Forest Meteorology, 2020, 290, 108027.	1.9	6
53	Identification of Potential Methane Source Regions in Europe Using Î´13 C CH4 Measurements and Trajectory Modeling. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033963.	1.2	5
54	The Simulation of Photochemical Smog Episodes in Hungary and Central Europe Using Adaptive Gridding Models. Lecture Notes in Computer Science, 2001, , 67-76.	1.0	5

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55	Parameter estimation for grassland carbon cycle using nonlinear inversion of Biome-BGC. Cereal Research Communications, 2007, 35, 453-456.	0.8	4
56	Model-Based Biospheric Greenhouse Gas Balance of Hungary. , 2011, , 295-330.		3
57	Trends and Temporal Variations of Major Greenhouse Gases at a Rural Site in Central Europe. , 2011, , 29-47.		3
58	Arable Lands. , 2011, , 157-197.		3
59	Modelling of carbon isotope discrimination by vegetation. Photosynthetica, 2009, 47, 457-470.	0.9	2
60	Non-methane hydrocarbon measurements in a road tunnel in Budapest. , 1996, , 177-186.		2
61	Stable isotope data of daily precipitation during the period of 2013â€“2017 from K-puszta (regional) Tj ETQq1 1 0.784314 rgBT /Ove	0.5	1
62	On density of precipitation chemistry networks. Environmental Monitoring and Assessment, 1985, 5, 185-197.	1.3	0
63	Uncertainty of hourly-average concentration values derived from non-continuous measurements. Atmospheric Measurement Techniques, 2021, 14, 3561-3571.	1.2	0
64	Arable Lands. , 2011, , 263-293.		0
65	Regional Climate Change and Fluctuations as Reflected in the Atmospheric Carbon Dioxide Concentration. , 2011, , 49-62.		0
66	Models and Their Adaptation. , 2011, , 201-228.		0