

# Markus Furger

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8330758/publications.pdf>

Version: 2024-02-01

70  
papers

3,436  
citations

117453

34  
h-index

149479

56  
g-index

88  
all docs

88  
docs citations

88  
times ranked

4127  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sources and variability of inhalable road dust particles in three European cities. Atmospheric Environment, 2011, 45, 6777-6787.	1.9	294
2	PM10 emission factors for non-exhaust particles generated by road traffic in an urban street canyon and along a freeway in Switzerland. Atmospheric Environment, 2010, 44, 2330-2340.	1.9	243
3	Quantification of topographic venting of boundary layer air to the free troposphere. Atmospheric Chemistry and Physics, 2004, 4, 497-509.	1.9	173
4	Changes of daily surface ozone maxima in Switzerland in all seasons from 1992 to 2002 and discussion of summer 2003. Atmospheric Chemistry and Physics, 2005, 5, 1187-1203.	1.9	164
5	Real-World Emission Factors for Antimony and Other Brake Wear Related Trace Elements: Size-Segregated Values for Light and Heavy Duty Vehicles. Environmental Science & Technology, 2009, 43, 8072-8078.	4.6	129
6	Biotic, Abiotic, and Management Controls on the Net Ecosystem CO2 Exchange of European Mountain Grassland Ecosystems. Ecosystems, 2008, 11, 1338-1351.	1.6	122
7	Study of the unknown HONO daytime source at a European suburban site during the MEGAPOLI summer and winter field campaigns. Atmospheric Chemistry and Physics, 2014, 14, 2805-2822.	1.9	107
8	Meteorology, Air Quality, and Health in London: The ClearLo Project. Bulletin of the American Meteorological Society, 2015, 96, 779-804.	1.7	105
9	Size and time-resolved roadside enrichment of atmospheric particulate pollutants. Atmospheric Chemistry and Physics, 2011, 11, 2917-2931.	1.9	104
10	Aerosol climatology and planetary boundary influence at the Jungfrauoch analyzed by synoptic weather types. Atmospheric Chemistry and Physics, 2011, 11, 5931-5944.	1.9	92
11	Source apportionment of size and time resolved trace elements and organic aerosols from an urban courtyard site in Switzerland. Atmospheric Chemistry and Physics, 2011, 11, 8945-8963.	1.9	90
12	Variations in time and space of trace metal aerosol concentrations in urban areas and their surroundings. Atmospheric Chemistry and Physics, 2011, 11, 9415-9430.	1.9	89
13	Radical budget analysis in a suburban European site during the MEGAPOLI summer field campaign. Atmospheric Chemistry and Physics, 2012, 12, 11951-11974.	1.9	84
14	Elemental composition of ambient aerosols measured with high temporal resolution using an online XRF spectrometer. Atmospheric Measurement Techniques, 2017, 10, 2061-2076.	1.2	79
15	Aerosol transport to the high Alpine sites Jungfrauoch (3454 m asl) and Colle Gnifetti (4452 m asl). Tellus, Series B: Chemical and Physical Meteorology, 1998, 50, 76-92.	0.8	78
16	Real-time measurement and source apportionment of elements in Delhi's atmosphere. Science of the Total Environment, 2020, 742, 140332.	3.9	78
17	The first UK measurements of nitryl chloride using a chemical ionization mass spectrometer in central London in the summer of 2012, and an investigation of the role of Cl atom oxidation. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5638-5657.	1.2	76
18	Effect of land management on ecosystem carbon fluxes at a subalpine grassland site in the Swiss Alps. Theoretical and Applied Climatology, 2005, 80, 187-203.	1.3	75

#	ARTICLE	IF	CITATIONS
19	Advanced source apportionment of size-resolved trace elements at multiple sites in London during winter. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11291-11309.	1.9	71
20	Climatology of Mountain Venting – Induced Elevated Moisture Layers in the Lee of the Alps. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 620-633.	1.7	65
21	High-ozone layers in the middle and upper troposphere above Central Europe: potential import from the stratosphere along the subtropical jet stream. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 9343-9366.	1.9	58
22	Convective boundary layer evolution to 4 km asl over High-alpine terrain: Airborne lidar observations in the Alps. <i>Geophysical Research Letters</i> , 2000, 27, 689-692.	1.5	57
23	Sensitivity of photooxidant production in the Milan Basin: An overview of results from a EUROTRAC-2 Limitation of Oxidant Production field experiment. <i>Journal of Geophysical Research</i> , 2002, 107, LOP 1-1.	3.3	57
24	Diurnal variations of volatile organic compounds and local circulation systems in an Alpine valley. <i>Atmospheric Environment</i> , 2000, 34, 1413-1423.	1.9	54
25	Impact of past and present land – management on the C – balance of a grassland in the Swiss Alps. <i>Global Change Biology</i> , 2008, 14, 2613-2625.	4.2	53
26	The VOTALP Mesolcina Valley Campaign 1996 – concept, background and some highlights. <i>Atmospheric Environment</i> , 2000, 34, 1395-1412.	1.9	50
27	A new method for long-term source apportionment with time-dependent factor profiles and uncertainty assessment using SoFi Pro: application to 1 year of organic aerosol data. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 923-943.	1.2	50
28	Kerb and urban increment of highly time-resolved trace elements in PM <sub>10</sub> , PM <sub>2.5</sub> and PM <sub>1.0</sub> ; winter aerosol in London during ClearLo 2012. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2367-2386.	1.9	46
29	Influences of vertical transport and scavenging on aerosol particle surface area and radon decay product concentrations at the Jungfraujoch (3454 m above sea level). <i>Journal of Geophysical Research</i> , 2000, 105, 19869-19879.	3.3	45
30	Real-Time Measurements of PM <sub>2.5</sub> Oxidative Potential Using a Dithiothreitol Assay in Delhi, India. <i>Environmental Science and Technology Letters</i> , 2020, 7, 504-510.	3.9	42
31	Föhn in the Rhine Valley during MAP: A review of its multiscale dynamics in complex valley geometry. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 897-916.	1.0	38
32	Characteristics and sources of hourly elements in PM <sub>10</sub> and PM <sub>2.5</sub> during wintertime in Beijing. <i>Environmental Pollution</i> , 2021, 278, 116865.	3.7	38
33	The weather and climate of Iceland. <i>Meteorologische Zeitschrift</i> , 2007, 16, 5-8.	0.5	37
34	Source apportionment of highly time-resolved elements during a firework episode from a rural freeway site in Switzerland. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 1657-1674.	1.9	37
35	Mobile load simulators – A tool to distinguish between the emissions due to abrasion and resuspension of PM <sub>10</sub> from road surfaces. <i>Atmospheric Environment</i> , 2010, 44, 4937-4943.	1.9	36
36	Quantitative sampling and analysis of trace elements in atmospheric aerosols: impactor characterization and Synchrotron-XRF mass calibration. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1473-1485.	1.2	36

#	ARTICLE	IF	CITATIONS
37	X-ray fluorescence spectrometry for high throughput analysis of atmospheric aerosol samples: The benefits of synchrotron X-rays. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 929-938.	1.5	35
38	The Bioclimatology of a regional wind north of the Alps. <i>Meteorology and Atmospheric Physics</i> , 1990, 43, 105-115.	0.9	33
39	Scintillometer Wind Measurements over Complex Terrain. <i>Journal of Atmospheric and Oceanic Technology</i> , 2000, 17, 17-26.	0.5	28
40	Climatology of near-surface wind patterns over Switzerland. <i>International Journal of Climatology</i> , 2001, 21, 809-827.	1.5	27
41	Scale interaction processes during the MAP IOP 12 south foehn event in the Rhine Valley. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 729-753.	1.0	25
42	The influence of south Foehn on the ozone distribution in the Alpine Rhine valley – results from the MAP field phase. <i>Atmospheric Environment</i> , 2001, 35, 6379-6390.	1.9	21
43	Characterization of non-refractory (NR) PM <sub>1</sub> and source apportionment of organic aerosol in Kraków, Poland. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14893-14906.	1.9	21
44	Highly time-resolved measurements of element concentrations in PM <sub>10</sub> and PM <sub>2.5</sub> : comparison of Delhi, Beijing, London, and Krakow. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 717-730.	1.9	19
45	Unstationary aspects of foehn in a large valley part I: operational setup, scientific objectives and analysis of the cases during the special observing period of the MAP subprogramme FORM. <i>Meteorology and Atmospheric Physics</i> , 2006, 92, 255-284.	0.9	18
46	The Origin of Severe Winds in a Tornadic Bow-Echo Storm over Northern Switzerland. <i>Monthly Weather Review</i> , 2000, 128, 192-207.	0.5	17
47	Comparison of Horizontal and Vertical Scintillometer Crosswinds during Strong Foehn with Lidar and Aircraft Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 2001, 18, 1975-1988.	0.5	16
48	Deposition Uniformity and Particle Size Distribution of Ambient Aerosol Collected with a Rotating Drum Impactor. <i>Aerosol Science and Technology</i> , 2009, 43, 891-901.	1.5	16
49	Föhn/cold-pool interactions in the Rhine valley during MAP IOP 15. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2006, 132, 3035-3058.	1.0	15
50	Stakeholder Perceptions of the Impacts of Rural Funding Scenarios on Mountain Landscapes Across Europe. <i>Ecosystems</i> , 2008, 11, 1368-1382.	1.6	15
51	The radiosoundings of Payerne: Aspects of the synoptic-dynamic climatology of the wind field near mountain ranges. <i>Theoretical and Applied Climatology</i> , 1992, 45, 3-17.	1.3	11
52	Automated alternating sampling of PM <sub>10</sub> and PM <sub>2.5</sub> with an online XRF spectrometer. <i>Atmospheric Environment: X</i> , 2020, 5, 100065.	0.8	11
53	Spectral analysis of boundary layer ozone data from the EUROTRAC TOR network. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	10
54	Variation of the aerosol stratification over the Rhine Valley during Foehn development: a backscatter lidar study. <i>Meteorologische Zeitschrift</i> , 2004, 13, 175-181.	0.5	8

#	ARTICLE	IF	CITATIONS
55	Uncertainty of Boundary Layer Heat Budgets Computed from Wind Profiler RASS Networks. Monthly Weather Review, 1995, 123, 790-799.	0.5	6
56	CO2 and water vapour exchange between an alpine ecosystem and the atmosphere. Environmental Modelling and Software, 1998, 13, 353-360.	1.9	5
57	New Insight into the Measurements of Particle-Bound Metals in the Urban and Remote Atmospheres of the Sarajevo Canton and Modeled Impacts of Particulate Air Pollution in Bosnia and Herzegovina. Environmental Science & Technology, 2022, 56, 7052-7062.	4.6	5
58	Source identification of the elemental fraction of particulate matter using size segregated, highly time-resolved data and an optimized source apportionment approach. Atmospheric Environment: X, 2022, 14, 100165.	0.8	4
59	The COST 720 TUC Experiment. Meteorologische Zeitschrift, 2006, 15, 3-4.	0.5	3
60	A comparison of scintillation crosswind methods. , 0, , .		2
61	<title>Scidar: laser- and LED-based wind sensing by scintillation detection and ranging</title>. , 1995, , .		2
62	<title>DOAS and scintillation anemometry for the determination of trace gas fluxes and budgets</title>. , 1997, , .		2
63	AEROCHEM II: Modelling the impact of aircraft emissions on ozone and other chemical compounds in the atmosphere. Meteorologische Zeitschrift, 2002, 11, 139-140.	0.5	2
64	International Conference on Alpine Meteorology and MAP Meeting 1923 May 2003, Brig, Switzerland. Meteorologische Zeitschrift, 2004, 13, 67-68.	0.5	1
65	International Conference on Alpine Meteorology and MAP Meeting 1923 May 2003, Brig, Switzerland. Meteorologische Zeitschrift, 2004, 13, 163-164.	0.5	1
66	FORM IDEAS FOR FUTURE FOEHN RESEARCH. Bulletin of the American Meteorological Society, 2006, 87, 1091-1094.	1.7	1
67	<title>Evaluation of CO <sub>2</sub> , water vapor, and their turbulent exchange rates with an airborne open-path infrared gas analyzer</title>. , 1999, 3821, 155.		0
68	International Conference on Alpine Meteorology and MAP Meeting 2327 May 2005, Zadar, Croatia. Meteorologische Zeitschrift, 2006, 15, 131-131.	0.5	0
69	Aerosol Chemistry in Remote Locations. , 0, , 217-252.		0
70	Cloud-base or mountain shadow?. Weather, 2009, 64, 53-53.	0.6	0