

# Markus Furger

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

2,685

citations

29

h-index

51

g-index

88

ext. papers

3,053

ext. citations

5

avg, IF

4.36

L-index

#	Paper	IF	Citations
63	Sources and variability of inhalable road dust particles in three European cities. <i>Atmospheric Environment</i> , <b>2011</b> , 45, 6777-6787	5.3	234
62	PM10 emission factors for non-exhaust particles generated by road traffic in an urban street canyon and along a freeway in Switzerland. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 2330-2340	5.3	190
61	Quantification of topographic venting of boundary layer air to the free troposphere. <i>Atmospheric Chemistry and Physics</i> , <b>2004</b> , 4, 497-509	6.8	154
60	Changes of daily surface ozone maxima in Switzerland in all seasons from 1992 to 2002 and discussion of summer 2003. <i>Atmospheric Chemistry and Physics</i> , <b>2005</b> , 5, 1187-1203	6.8	133
59	Biotic, Abiotic, and Management Controls on the Net Ecosystem CO2 Exchange of European Mountain Grassland Ecosystems. <i>Ecosystems</i> , <b>2008</b> , 11, 1338-1351	3.9	102
58	Real-world emission factors for antimony and other brake wear related trace elements: size-segregated values for light and heavy duty vehicles. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 8072-8	10.3	99
57	Meteorology, Air Quality, and Health in London: The ClearFlo Project. <i>Bulletin of the American Meteorological Society</i> , <b>2015</b> , 96, 779-804	6.1	84
56	Size and time-resolved roadside enrichment of atmospheric particulate pollutants. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 2917-2931	6.8	84
55	Source apportionment of size and time resolved trace elements and organic aerosols from an urban courtyard site in Switzerland. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 8945-8963	6.8	84
54	Study of the unknown HONO daytime source at a European suburban site during the MEGAPOLI summer and winter field campaigns. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 2805-2822	6.8	81
53	Aerosol climatology and planetary boundary influence at the Jungfraujoch analyzed by synoptic weather types. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 5931-5944	6.8	80
52	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>1998</b> , 50, 76-92	3.3	74
51	Variations in time and space of trace metal aerosol concentrations in urban areas and their surroundings. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 9415-9430	6.8	72
50	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. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 5638-5657	4.4	66
49	Radical budget analysis in a suburban European site during the MEGAPOLI summer field campaign. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 11951-11974	6.8	66
48	Effect of land management on ecosystem carbon fluxes at a subalpine grassland site in the Swiss Alps. <i>Theoretical and Applied Climatology</i> , <b>2005</b> , 80, 187-203	3	66
47	Climatology of Mountain Venting-Induced Elevated Moisture Layers in the Lee of the Alps. <i>Journal of Applied Meteorology and Climatology</i> , <b>2005</b> , 44, 620-633		59

46	Advanced source apportionment of size-resolved trace elements at multiple sites in London during winter. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 11291-11309	6.8	54
45	Elemental composition of ambient aerosols measured with high temporal resolution using an online XRF spectrometer. <i>Atmospheric Measurement Techniques</i> , <b>2017</b> , 10, 2061-2076	4	51
44	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> , <b>2002</b> , 107, LOP 1-1		48
43	The VOTALP Mesolcina Valley Campaign 1996 [concept, background and some highlights. <i>Atmospheric Environment</i> , <b>2000</b> , 34, 1395-1412	5.3	46
42	Convective boundary layer evolution to 4 km asl over High-alpine terrain: Airborne lidar observations in the Alps. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 689-692	4.9	46
41	Diurnal variations of volatile organic compounds and local circulation systems in an Alpine valley. <i>Atmospheric Environment</i> , <b>2000</b> , 34, 1413-1423	5.3	45
40	Impact of past and present land-management on the C-balance of a grassland in the Swiss Alps. <i>Global Change Biology</i> , <b>2008</b> , 14, 2613-2625	11.4	42
39	Real-time measurement and source apportionment of elements in Delhi's atmosphere. <i>Science of the Total Environment</i> , <b>2020</b> , 742, 140332	10.2	40
38	Influences of vertical transport and scavenging on aerosol particle surface area and radon decay product concentrations at the Jungfrauoch (3454 m above sea level). <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 19869-19879		40
37	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 ClearFlo 2012. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 2367-2386	6.8	37
36	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> , <b>2011</b> , 11, 9343-9366	6.8	36
35	Mobile load simulators [A tool to distinguish between the emissions due to abrasion and resuspension of PM10 from road surfaces. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 4937-4943	5.3	30
34	Quantitative sampling and analysis of trace elements in atmospheric aerosols: impactor characterization and Synchrotron-XRF mass calibration. <i>Atmospheric Measurement Techniques</i> , <b>2010</b> , 3, 1473-1485	4	28
33	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> , <b>2008</b> , 63, 929-938	3.1	28
32	The weather and climate of Iceland. <i>Meteorologische Zeitschrift</i> , <b>2007</b> , 16, 5-8	3.1	26
31	The Bise [climatology of a regional wind north of the Alps. <i>Meteorology and Atmospheric Physics</i> , <b>1990</b> , 43, 105-115	2	25
30	Scale interaction processes during the MAP IOP 12 south fin event in the Rhine Valley. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2003</b> , 129, 729-753	6.4	24
29	Climatology of near-surface wind patterns over Switzerland. <i>International Journal of Climatology</i> , <b>2001</b> , 21, 809-827	3.5	24

28	FbN 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> , <b>2007</b> , 133, 897-916	6.4	23
27	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> , <b>2020</b> , 7, 504-510	11	20
26	Scintillometer Wind Measurements over Complex Terrain. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2000</b> , 17, 17-26	2	19
25	Source apportionment of highly time-resolved elements during a firework episode from a rural freeway site in Switzerland. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 1657-1674	6.8	18
24	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> , <b>2021</b> , 14, 923-943	4	18
23	The influence of south Foehn on the ozone distribution in the Alpine Rhine valley—Results from the MAP field phase. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 6379-6390	5.3	17
22	Comparison of Horizontal and Vertical Scintillometer Crosswinds during Strong Foehn with Lidar and Aircraft Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , <b>2001</b> , 18, 1975-1988	2	16
21	The Origin of Severe Winds in a Tornadic Bow-Echo Storm over Northern Switzerland. <i>Monthly Weather Review</i> , <b>2000</b> , 128, 192-207	2.4	16
20	Characteristics and sources of hourly elements in PM and PM during wintertime in Beijing. <i>Environmental Pollution</i> , <b>2021</b> , 278, 116865	9.3	16
19	Deposition Uniformity and Particle Size Distribution of Ambient Aerosol Collected with a Rotating Drum Impactor. <i>Aerosol Science and Technology</i> , <b>2009</b> , 43, 891-901	3.4	14
18	Stakeholder Perceptions of the Impacts of Rural Funding Scenarios on Mountain Landscapes Across Europe. <i>Ecosystems</i> , <b>2008</b> , 11, 1368-1382	3.9	14
17	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> , <b>2006</b> , 92, 255-284	2	14
16	Fbhn/cold-pool interactions in the Rhine valley during MAP IOP 15. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2006</b> , 132, 3035-3058	6.4	13
15	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> , <b>2021</b> , 21, 717-730	6.8	11
14	Spectral analysis of boundary layer ozone data from the EUROTRAC TOR network. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		9
13	The radiosoundings of Payerne: Aspects of the synoptic-dynamic climatology of the wind field near mountain ranges. <i>Theoretical and Applied Climatology</i> , <b>1992</b> , 45, 3-17	3	9
12	Characterization of non-refractory (NR) PM <sub>1</sub> and source apportionment of organic aerosol in Kraków, Poland. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 14893-14906	6.8	7
11	Automated alternating sampling of PM <sub>10</sub> and PM <sub>2.5</sub> with an online XRF spectrometer. <i>Atmospheric Environment: X</i> , <b>2020</b> , 5, 100065	2.8	6

10	Variation of the aerosol stratification over the Rhine Valley during Foehn development: a backscatter lidar study. <i>Meteorologische Zeitschrift</i> , <b>2004</b> , 13, 175-181	3.1	6
9	Uncertainty of Boundary Layer Heat Budgets Computed from Wind Profiler RASS Networks. <i>Monthly Weather Review</i> , <b>1995</b> , 123, 790-799	2.4	6
8	CO2 and water vapour exchange between an alpine ecosystem and the atmosphere. <i>Environmental Modelling and Software</i> , <b>1998</b> , 13, 353-360	5.2	3
7	Source apportionment of highly time resolved trace elements during a firework episode from a rural freeway site in Switzerland <b>2019</b> ,		2
6	DOAS and scintillation anemometry for the determination of trace gas fluxes and budgets <b>1997</b> ,		2
5	A comparison of scintillation crosswind methods		2
4	Source identification of the elemental fraction of particulate matter using size segregated, highly time-resolved data and an optimized source apportionment approach. <i>Atmospheric Environment: X</i> , <b>2022</b> , 14, 100165	2.8	0
3	Cloud-base or mountain shadow?. <i>Weather</i> , <b>2009</b> , 64, 53-53	0.9	
2	Aerosol Chemistry in Remote Locations 217-252		
1	Evaluation of CO2, water vapor, and their turbulent exchange rates with an airborne open-path infrared gas analyzer <b>1999</b> , 3821, 155		