Urmas HÃµrrak

List of Publications by Year
in descending order

36 papers	2,822 citations	257450 24 h-index	361022 35 g-index

36 all docs	36 docs citations	36 times ranked	2443 citing authors

#	Article	IF	Citations
1	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	4.9	278
2	On the roles of sulphuric acid and low-volatility organic vapours in the initial steps of atmospheric new particle formation. Atmospheric Chemistry and Physics, 2010, 10, 11223-11242.	4.9	262
3	EUCAARI ion spectrometer measurements at 12 European sites â€“ analysis of new particle formation events. Atmospheric Chemistry and Physics, 2010, 10, 7907-7927.	4.9	248
4	Atmospheric ions and nucleation: a review of observations. Atmospheric Chemistry and Physics, 2011, 11, 767-798.	4.9	228
5	Growth rates of nucleation mode particles in HyytiÃlÃ during 2003â€’2009: variation with particle size, season, data analysis method and ambient conditions. Atmospheric Chemistry and Physics, 2011, 11, 12865-12886.	4.9	173
6	Atmospheric nucleation: highlights of the EUCAARI project and future directions. Atmospheric Chemistry and Physics, 2010, 10, 10829-10848.	4.9	144
7	A global observational analysis to understand changes in air quality during exceptionally low anthropogenic emission conditions. Environment International, 2021, 157, 106818.	10.0	126
8	Bursts of intermediate ions in atmospheric air. Journal of Geophysical Research, 1998, 103, 13909-13915.	3.3	119
9	Formation and characteristics of ions and charged aerosol particles in a native Australian Eucalypt forest. Atmospheric Chemistry and Physics, 2008, 8, 129-139.	4.9	115
10	Identification and classification of the formation of intermediate ions measured in boreal forest. Atmospheric Chemistry and Physics, 2007, 7, 201-210.	4.9	114
11	Global analysis of continental boundary layer new particle formation based on long-term measurements. Atmospheric Chemistry and Physics, 2018, 18, 14737-14756.	4.9	113
12	Statistical characterization of air ion mobility spectra at Tahkuse Observatory: Classification of air ions. Journal of Geophysical Research, 2000, 105, 9291-9302.	3.3	112
13	Atmospheric sub-3 nm particles at high altitudes. Atmospheric Chemistry and Physics, 2010, 10, 437-451.	4.9	95
14	Atmospheric data over a solar cycle: no connection between galactic cosmic rays and new particle formation. Atmospheric Chemistry and Physics, 2010, 10, 1885-1898.	4.9	89
15	An Instrumental Comparison of Mobility and Mass Measurements of Atmospheric Small Ions. Aerosol Science and Technology, 2011, 45, 522-532.	3.1	72
16	Factors of air ion balance in a coniferous forest according to measurements in HyytiÃlÃ, Finland. Atmospheric Chemistry and Physics, 2006, 6, 3377-3390.	4.9	58
17	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the landâ€“atmosphereâ€“oceanâ€“society continuum in the northern Eurasian region. Atmospheric Chemistry and Physics, 2016, 16, 14421-14461.	4.9	57
18	Diurnal variation in the concentration of air ions of different mobility classes in a rural area. Journal of Geophysical Research, 2003, 108, .	3.3	51

#	Article	IF	Citations
19	Comparative study of nucleation mode aerosol particles and intermediate air ions formation events at three sites. Journal of Geophysical Research, 2004, 109, .	3.3	47
20	Variation and balance of positive air ion concentrations in a boreal forest. Atmospheric Chemistry and Physics, 2008, 8, 655-675.	4.9	47
21	Charging state of atmospheric nanoparticles during the nucleation burst events. Atmospheric Research, 2006, 82, 536-546.	4.1	45
22	Negatively charged nanoparticles produced by splashing of water. Atmospheric Chemistry and Physics, 2009, 9, 357-367.	4.9	36
23	Air ion measurements as a source of information about atmospheric aerosols. Atmospheric Research, 1998, 46, 233-242.	4.1	35
24	Intercomparison of air ion spectrometers: an evaluation of results in varying conditions. Atmospheric Measurement Techniques, 2011, 4, 805-822.	3.1	34
25	Atmospheric new particle formation at the research station Melpitz, Germany: connection with gaseous precursors and meteorological parameters. Atmospheric Chemistry and Physics, 2018, 18, 1835-1861.	4.9	25
26	SMEAR Estonia: Perspectives of a large-scale forest ecosystem â€“ atmosphere research infrastructure. Forestry Studies, 2015, 63, 56-84.	0.2	22
27	Concentrations and fluxes of aerosol particles during the LAPBIAT measurement campaign at VÃrriÃ¶ field station. Atmospheric Chemistry and Physics, 2007, 7, 3683-3700.	4.9	19
28	Intermediate ions in the atmosphere. Atmospheric Research, 2014, 135-136, 263-273.	4.1	19
29	Composition of negative air ions as a function of ion age and selected trace gases: Mass- and mobility distribution. Journal of Aerosol Science, 2011, 42, 820-838.	3.8	16
30	Overview of the biosphere-aerosol-cloud-climate interactions (BACCI) studies. Tellus, Series B: Chemical and Physical Meteorology, 2008, 60, 300-317.	1.6	12
31	Estimating neutral nanoparticle steady-state size distribution and growth according to measurements of intermediate air ions. Atmospheric Chemistry and Physics, 2013, 13, 9597-9603.	4.9	3
32	Diffusion Distortions in a Differential Mobility Analyzer with Inclined Electric Field. Aerosol Science and Technology, 2009, 43, 227-231.	3.1	2
33	Links between two different types of spectra of charged nanometer aerosol particles. Atmospheric Research, 2011, 101, 527-538.	4.1	2
34	A Method for Automated Estimation of Parameters Controlling Aerosol New Particle Formation. Aerosol and Air Quality Research, 2015, 15, 1166-1177.	2.1	2
35	Interpretation of Atmospheric Aerosol Measurements by Means of a Numerical Simulator of New Particle Formation Events. Aerosol and Air Quality Research, 2016, 16, 930-942.	2.1	2
36	Atmospheric electricity and aerosol-cloud interactions in earthâ€™s atmosphere. , 2013, , .		0