

# Thorsten Hoffmann

## List of Publications by Citations

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177  
papers

13,538  
citations

50  
h-index

114  
g-index

191  
ext. papers

15,458  
ext. citations

6.8  
avg, IF

5.85  
L-index

#	Paper	IF	Citations
177	The formation, properties and impact of secondary organic aerosol: current and emerging issues. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 5155-5236	6.8	2861
176	Gas/Particle Partitioning and Secondary Organic Aerosol Yields. <i>Environmental Science &amp; Technology</i> , <b>1996</b> , 30, 2580-2585	10.3	1186
175	Marine aerosol formation from biogenic iodine emissions. <i>Nature</i> , <b>2002</b> , 417, 632-6	50.4	611
174	Formation of Organic Aerosols from the Oxidation of Biogenic Hydrocarbons. <i>Journal of Atmospheric Chemistry</i> , <b>1997</b> , 26, 189-222	3.2	608
173	Bioaerosols in the Earth system: Climate, health, and ecosystem interactions. <i>Atmospheric Research</i> , <b>2016</b> , 182, 346-376	5.4	406
172	Aerosol formation: atmospheric particles from organic vapours. <i>Nature</i> , <b>2002</b> , 416, 497-8	50.4	348
171	Influence of the oxidation state of phosphorus on the decomposition and fire behaviour of flame-retarded epoxy resin composites. <i>Polymer</i> , <b>2006</b> , 47, 8495-8508	3.9	331
170	The molecular identification of organic compounds in the atmosphere: state of the art and challenges. <i>Chemical Reviews</i> , <b>2015</b> , 115, 3919-83	68.1	300
169	A new feedback mechanism linking forests, aerosols, and climate. <i>Atmospheric Chemistry and Physics</i> , <b>2004</b> , 4, 557-562	6.8	286
168	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) Integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 13061-13143	6.8	231
167	PM <sub>2.5</sub> -bound oxygenated PAHs, nitro-PAHs and parent-PAHs from the atmosphere of a Chinese megacity: seasonal variation, sources and cancer risk assessment. <i>Science of the Total Environment</i> , <b>2014</b> , 473-474, 77-87	10.2	227
166	HONO emissions from soil bacteria as a major source of atmospheric reactive nitrogen. <i>Science</i> , <b>2013</b> , 341, 1233-5	33.3	207
165	Aging of biogenic secondary organic aerosol via gas-phase OH radical reactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 13503-8	11.5	201
164	The role of VOC oxidation products in continental new particle formation. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 2657-2665	6.8	175
163	Molecular composition of organic aerosols formed in the $\alpha$ -pinene/O <sub>3</sub> reaction: Implications for new particle formation processes. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 25569-25578		168
162	New particle formation from photooxidation of diiodomethane (CH <sub>2</sub> I <sub>2</sub> ). <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		164
161	Formation of 3-methyl-1,2,3-butanetricarboxylic acid via gas phase oxidation of pinonic acid: A mass spectrometric study of SOA aging. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1483-1496	6.8	162

160	The Amazon Tall Tower Observatory (ATTO): overview of pilot measurements on ecosystem ecology, meteorology, trace gases, and aerosols. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 10723-10776	6.8	155
159	Iodine oxide homogeneous nucleation: An explanation for coastal new particle production. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 1949-1952	4.9	150
158	Seasonal cycle and temperature dependence of pinene oxidation products, dicarboxylic acids and nitrophenols in fine and coarse air particulate matter. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 7859-7873	6.8	143
157	Emissions of Volatile Organic Compounds from Sunflower and Beech: Dependence on Temperature and Light Intensity. <i>Journal of Atmospheric Chemistry</i> , <b>1997</b> , 27, 291-318	3.2	143
156	Coastal New Particle Formation: A Review of the Current State-Of-The-Art. <i>Environmental Chemistry</i> , <b>2005</b> , 2, 245	3.2	143
155	A dedicated study of New Particle Formation and Fate in the Coastal Environment (PARFORCE): Overview of objectives and achievements. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, PAR 1-1		142
154	Severe Pollution in China Amplified by Atmospheric Moisture. <i>Scientific Reports</i> , <b>2017</b> , 7, 15760	4.9	122
153	Characterization of the South Atlantic marine boundary layer aerosol using an aerodyne aerosol mass spectrometer. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 4711-4728	6.8	122
152	Modelling molecular iodine emissions in a coastal marine environment: the link to new particle formation. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 883-895	6.8	122
151	Identification and characterization of aging products in the glyoxal/ammonium sulfate system □ implications for light-absorbing material in atmospheric aerosols. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 6323-6333	6.8	109
150	Summertime total OH reactivity measurements from boreal forest during HUMPPA-COPEC 2010. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 8257-8270	6.8	103
149	Polar organic marker compounds in PM <sub>2.5</sub> aerosol from a mixed forest site in western Germany. <i>Chemosphere</i> , <b>2008</b> , 73, 1308-14	8.4	101
148	Unambiguous identification of esters as oligomers in secondary organic aerosol formed from cyclohexene and cyclohexene/β-pinene ozonolysis. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 1423-1433	6.8	94
147	Carbonate-coordinated metal complexes precede the formation of liquid amorphous mineral emulsions of divalent metal carbonates. <i>Nanoscale</i> , <b>2011</b> , 3, 1158-65	7.7	92
146	Effective Henry's law partitioning and the salting constant of glyoxal in aerosols containing sulfate. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 4236-44	10.3	91
145	The summertime Boreal forest field measurement intensive (HUMPPA-COPEC-2010): an overview of meteorological and chemical influences. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 10599-10618	6.8	87
144	Brown Carbon Aerosol in Urban Xi'an, Northwest China: The Composition and Light Absorption Properties. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 6825-6833	10.3	86
143	Iodine speciation in rain, snow and aerosols. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 6069-6084	6.8	76

142	Combined determination of the chemical composition and of health effects of secondary organic aerosols: the POLYSOA project. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , <b>2008</b> , 21, 145-54	3.8	74
141	Short-term e-cigarette vapour exposure causes vascular oxidative stress and dysfunction: evidence for a close connection to brain damage and a key role of the phagocytic NADPH oxidase (NOX-2). <i>European Heart Journal</i> , <b>2020</b> , 41, 2472-2483	9.5	74
140	Iodine emissions from the sea ice of the Weddell Sea. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 11229-11246	6.8	69
139	Sampling and analysis of terpenes in air. An interlaboratory comparison. <i>Atmospheric Environment</i> , <b>1997</b> , 31, 35-49	5.3	66
138	Characterization of oligomeric compounds in secondary organic aerosol using liquid chromatography coupled to electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2009</b> , 23, 971-9	2.2	63
137	Capillary-HPLC-ESI-MS/MS method for the determination of acidic products from the oxidation of monoterpenes in atmospheric aerosol samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 385, 34-45	4.4	61
136	Volatility of secondary organic aerosol during OH radical induced ageing. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 11055-11067	6.8	60
135	Novel Phosphorus-Containing Poly(ether sulfone)s and Their Blends with an Epoxy Resin: Thermal Decomposition and Fire Retardancy. <i>Macromolecular Chemistry and Physics</i> , <b>2006</b> , 207, 1501-1514	2.6	59
134	On-line characterization of organic aerosols formed from biogenic precursors using atmospheric pressure chemical ionization mass spectrometry. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 1905-12	7.8	58
133	Quantification of Coastal New Ultra-Fine Particles Formation from In situ and Chamber Measurements during the BIOFLUX Campaign. <i>Environmental Chemistry</i> , <b>2005</b> , 2, 260	3.2	55
132	Atmospheric analytical chemistry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 4649-64	7.8	52
131	Suppression of new particle formation from monoterpene oxidation by NO <sub>2</sub> . <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 2789-2804	6.8	51
130	Identification of organic hydroperoxides and hydroperoxy acids in secondary organic aerosol formed during the ozonolysis of different monoterpenes and sesquiterpenes by on-line analysis using atmospheric pressure chemical ionization ion trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2009</b> , 23, 1735-41	2.2	50
129	Structural elucidation of monoterpene oxidation products by ion trap fragmentation using on-line atmospheric pressure chemical ionisation mass spectrometry in the negative ion mode. <i>Rapid Communications in Mass Spectrometry</i> , <b>2001</b> , 15, 2259-72	2.2	50
128	On-line measurements of Pinene ozonolysis products using an atmospheric pressure chemical ionisation ion-trap mass spectrometer. <i>Atmospheric Environment</i> , <b>2001</b> , 35, 2927-2940	5.3	50
127	Biogenic and biomass burning organic aerosol in a boreal forest at Hyytiälä Finland, during HUMPPA-COPEC 2010. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 12233-12256	6.8	46
126	In situ measurements of molecular iodine in the marine boundary layer: the link to macroalgae and the implications for O <sub>3</sub> , IO, OIO and NO <sub>2</sub> . <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 4823-4833	6.8	46
125	Overview of the field measurement campaign in Hyytiälä August 2001 in the framework of the EU project OSA. <i>Atmospheric Chemistry and Physics</i> , <b>2004</b> , 4, 657-678	6.8	46

124	Daytime formation of nitrous acid at a coastal remote site in Cyprus indicating a common ground source of atmospheric HONO and NO. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 14475-14493	6.8	45
123	Novel Phosphorous-Containing Aromatic Polyethers Synthesis and Characterization. <i>Macromolecular Chemistry and Physics</i> , <b>2005</b> , 206, 423-431	2.6	42
122	A comparison of HONO budgets for two measurement heights at a field station within the boreal forest in Finland. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 799-813	6.8	41
121	Development of a coupled diffusion denuder system combined with gas chromatography/mass spectrometry for the separation and quantification of molecular iodine and the activated iodine compounds iodine monochloride and hypoiodous acid in the marine atmosphere. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 1777-88	7.8	40
120	A new interface to couple thin-layer chromatography with laser desorption/atmospheric pressure chemical ionization mass spectrometry for plate scanning. <i>Rapid Communications in Mass Spectrometry</i> , <b>2005</b> , 19, 2789-93	2.2	40
119	UHPLC-Orbitrap mass spectrometric characterization of organic aerosol from a central European city (Mainz, Germany) and a Chinese megacity (Beijing). <i>Atmospheric Environment</i> , <b>2018</b> , 189, 22-29	5.3	38
118	Direct analysis of highly oxidised organic aerosol constituents by on-line ion trap mass spectrometry in the negative-ion mode. <i>Rapid Communications in Mass Spectrometry</i> , <b>2002</b> , 16, 496-504	2.2	37
117	Real-Time Analysis of Ambient Organic Aerosols Using Aerosol Flowing Atmospheric-Pressure Afterglow Mass Spectrometry (AeroFAPA-MS). <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 5571-8	10.3	36
116	Emission of nitrous acid from soil and biological soil crusts represents an important source of HONO in the remote atmosphere in Cyprus. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 799-813	6.8	36
115	Estimating the contribution of organic acids to northern hemispheric continental organic aerosol. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 6084-6090	4.9	36
114	Online atmospheric pressure chemical ionization ion trap mass spectrometry (APCI-IT-MS <sup>&amp;sup&gt;</sup> &lt;sup>n</sup>)&lt;sup>t</sup> for measuring organic acids in concentrated bulk aerosol in laboratory and field study. <i>Atmospheric Measurement Techniques</i> , <b>2013</b> , 6, 431-443	4	36
113	Secondary brown carbon formation via the dicarbonyl imine pathway: nitrogen heterocycle formation and synergistic effects. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 18353-64	3.6	35
112	Black and brown carbon over central Amazonia: long-term aerosol measurements at the ATTO site. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 12817-12843	6.8	35
111	Organosulfates in atmospheric aerosol: synthesis and quantitative analysis of PM <sub>2.5</sub> from Xi'an, northwestern China. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 3447-3456	4	32
110	Implementation of electrochemical, optical and denuder-based sensors and sampling techniques on UAV for volcanic gas measurements: examples from Masaya, Turrialba and Stromboli volcanoes. <i>Atmospheric Measurement Techniques</i> , <b>2018</b> , 11, 2441-2457	4	32
109	Direct measurement of NO <sub>3</sub> radical reactivity in a boreal forest. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 3799-3815	6.8	31
108	Radical Formation by Fine Particulate Matter Associated with Highly Oxygenated Molecules. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 12506-12518	10.3	30
107	Anodic Degradation of Lignin at Active Transition Metal-based Alloys and Performance-enhanced Anodes. <i>ChemElectroChem</i> , <b>2019</b> , 6, 155-161	4.3	30

106	Plant diversity enhances the natural attenuation of polycyclic aromatic compounds (PAHs and oxygenated PAHs) in grassland soils. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 129, 60-70	7.5	30
105	Ultrahigh-Resolution Mass Spectrometry in Real Time: Atmospheric Pressure Chemical Ionization Orbitrap Mass Spectrometry of Atmospheric Organic Aerosol. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 8816-8823	7.8	29
104	Real-time detection of highly oxidized organosulfates and BSOA marker compounds during the F-BEACH2014 field study. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 1453-1469	6.8	29
103	Thermodynamic properties and cloud droplet activation of a series of oxo-acids. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 5873-5890	6.8	29
102	Thin-layer chromatography combined with diode laser desorption/atmospheric pressure chemical ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2004</b> , 18, 1803-8	2.2	29
101	Characterization of selected organic compound classes in secondary organic aerosol from biogenic VOCs by HPLC/MSn. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 391, 171-82	4.4	28
100	Determination of alkylamines in atmospheric aerosol particles: a comparison of gas chromatography-mass spectrometry and ion chromatography approaches. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 2027-2035	4	27
99	New tracer compounds for secondary organic aerosol formation from Caryophyllene oxidation. <i>Atmospheric Environment</i> , <b>2013</b> , 80, 122-130	5.3	27
98	Observations of high concentrations of I2 and IO in coastal air supporting iodine-oxide driven coastal new particle formation. <i>Geophysical Research Letters</i> , <b>2010</b> , 37, n/a-n/a	4.9	27
97	Summertime and wintertime atmospheric processes of secondary aerosol in Beijing. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 3793-3807	6.8	26
96	Characterization of the light-absorbing properties, chromophore composition and sources of brown carbon aerosol in Xi'an, northwestern China. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 5129-5144	6.8	25
95	On-line characterization of gaseous and particulate organic analytes using atmospheric pressure chemical ionization mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2002</b> , 57, 1635-1647	3.1	25
94	Interfacial photochemistry of biogenic surfactants: a major source of abiotic volatile organic compounds. <i>Faraday Discussions</i> , <b>2017</b> , 200, 59-74	3.6	24
93	Iodine containing species in the remote marine boundary layer: A link to oceanic phytoplankton. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	24
92	Gel electrophoresis coupled to inductively coupled plasma-mass spectrometry using species-specific isotope dilution for iodide and iodate determination in aerosols. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 1714-9	7.8	24
91	Water-Insoluble Organics Dominate Brown Carbon in Wintertime Urban Aerosol of China: Chemical Characteristics and Optical Properties. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 7836-7847	10.3	22
90	Historic records of organic compounds from a high Alpine glacier: influences of biomass burning, anthropogenic emissions, and dust transport. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1029-1043	6.8	22
89	In situ submicron organic aerosol characterization at a boreal forest research station during HUMPPA-COPEC 2010 using soft and hard ionization mass spectrometry. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 10933-10950	6.8	22

88	Development and validation of a selective HPLC-ESI-MS/MS method for the quantification of glyoxal and methylglyoxal in atmospheric aerosols (PM <sub>2.5</sub> ). <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 3115-24	4.4	22
87	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2001</b> , 53, 406-422	3.3	22
86	Application of gas chromatography-cryocondensation-Fourier transform infrared spectroscopy and gas chromatography-mass spectrometry to the identification of gas phase reaction products from the alpha-pinene/ozone reaction. <i>Journal of Chromatography A</i> , <b>1999</b> , 864, 299-314	4.5	22
85	Molecular composition and chemotaxonomic aspects of Eocene amber from the Ameki Formation, Nigeria. <i>Organic Geochemistry</i> , <b>2012</b> , 51, 55-62	3.1	21
84	Biomass Burning in Amazonia: Emissions, Long-Range Transport of Smoke and Its Regional and Remote Impacts. <i>Geophysical Monograph Series</i> , <b>2009</b> , 183-206	1.1	21
83	Molecular Characterization and Source Identification of Atmospheric Particulate Organosulfates Using Ultrahigh Resolution Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 6192-6202	10.3	20
82	Monitoring of the polycondensation reaction of bisphenol A and 4,4'-dichlorodiphenylsulfone towards polysulfone (PSU) by real-time ATR-FTIR spectroscopy. <i>European Polymer Journal</i> , <b>2006</b> , 42, 2292-2301	5.2	20
81	Generation of standard gas mixtures of halogenated, aliphatic, and aromatic compounds and prediction of the individual output rates based on molecular formula and boiling point. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 404, 2177-83	4.4	18
80	The seaweeds <i>Fucus vesiculosus</i> and <i>Ascophyllum nodosum</i> are significant contributors to coastal iodine emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 5255-5264	6.8	18
79	Uptake of gaseous formaldehyde by soil surfaces: a combination of adsorption/desorption equilibrium and chemical reactions. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 10299-10311	6.8	17
78	Terpenoid composition and chemotaxonomic aspects of Miocene amber from the Koroglu Mountains, Turkey. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2014</b> , 105, 100-107	6	17
77	Application of mass spectrometric techniques for the trace analysis of short-lived iodine-containing volatiles emitted by seaweed. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 3345-57	4.4	17
76	Direct quantitative analysis of organic compounds in the gas and particle phase using a modified atmospheric pressure chemical ionization source in combination with ion trap mass spectrometry. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 1410-7	7.8	17
75	Contrasting sources and processes of particulate species in haze days with low and high relative humidity in wintertime Beijing. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 9101-9114	6.8	17
74	Quantification of low molecular weight fatty acids in cave drip water and speleothems using HPLC-ESI-IT/MS -- development and validation of a selective method. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 3167-77	4.4	16
73	Natural Volatile Organic Compound Emissions from Plants and their Roles in Oxidant Balance and Particle Formation. <i>Geophysical Monograph Series</i> , <b>2009</b> , 163-181	1.1	16
72	Aerosol Chemistry Resolved by Mass Spectrometry: Insights into Particle Growth after Ambient New Particle Formation. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 10814-10822	10.3	16
71	Light-induced protein nitration and degradation with HONO emission. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 11819-11833	6.8	15

70	Monitoring of chemical reactions during polymer synthesis by real-time attenuated total reflection (ATR)FTIR spectroscopy. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 101, 1374-1380	2.9	15
69	Measurements Of Biogenic Hydrocarbons And Their Atmospheric Degradation In Forests. <i>International Journal of Environmental Analytical Chemistry</i> , <b>1993</b> , 52, 29-37	1.8	15
68	Advances in Bromine Speciation in Volcanic Plumes. <i>Frontiers in Earth Science</i> , <b>2018</b> , 6,	3.5	15
67	Extensive evaluation of a diffusion denuder technique for the quantification of atmospheric stable and radioactive molecular iodine. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 5061-6	10.3	14
66	Emission of Biogenic Volatile Organic Compounds: An Overview of Field, Laboratory and Modelling Studies Performed during the 'Tropospheric Research Program' (TFS) 1997-2000. <i>Journal of Atmospheric Chemistry</i> , <b>2002</b> , 42, 159-177	3.2	14
65	Differentiation between de novo synthesized and constitutively released terpenoids from <i>Fagus sylvatica</i> . <i>Phytochemistry</i> , <b>1999</b> , 51, 383-388	4	14
64	Azaarenes in fine particulate matter from the atmosphere of a Chinese megacity. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 16025-36	5.1	14
63	Aerosol Chemistry Resolved by Mass Spectrometry: Linking Field Measurements of Cloud Condensation Nuclei Activity to Organic Aerosol Composition. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 10823-10832	10.3	14
62	Shipborne measurements of Antarctic submicron organic aerosols: an NMR perspective linking multiple sources and bioregions. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 4193-4207	6.8	13
61	Metaproteomic analysis of atmospheric aerosol samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 6337-48	4.4	13
60	Terpenoid composition and origin of amber from the Cape York Peninsula, Australia. <i>Australian Journal of Earth Sciences</i> , <b>2014</b> , 61, 979-985	1.4	13
59	Marine aerosols and iodine emissions (Reply). <i>Nature</i> , <b>2005</b> , 433, E13-E14	50.4	13
58	Relational depth-first-search with applications. <i>Information Sciences</i> , <b>2001</b> , 139, 167-186	7.7	13
57	A detailed MSn study for the molecular identification of a dimer formed from oxidation of pinene. <i>Atmospheric Environment</i> , <b>2016</b> , 130, 120-126	5.3	12
56	A new sensitive method for the quantification of glyoxal and methylglyoxal in snow and ice by stir bar sorptive extraction and liquid desorption-HPLC-ESI-MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 2525-32	4.4	12
55	Application of time-of-flight aerosol mass spectrometry for the online measurement of gaseous molecular iodine. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 1439-45	7.8	12
54	First measurements of reactive dicarbonyl concentrations on PM <sub>2.5</sub> aerosol over the Boreal forest in Finland during HUMPPA-COPEC 2010 source apportionment and links to aerosol aging. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 6145-6155	6.8	12
53	An Analytical Approach for a Comprehensive Study of Organic Aerosols. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 3998-4001	16.4	12



52	Combined Determination of the Chemical Composition and of Health Effects of Secondary Organic Aerosols: The POLYSOA Project. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , <b>2008</b> , 080207080519480-10		12
51	Critical assessment of ionization patterns and applications of ambient desorption/ionization mass spectrometry using FAPA-MS. <i>Journal of Mass Spectrometry</i> , <b>2016</b> , 51, 141-9	2.2	12
50	In situ Synthesis of Poly(ethylene terephthalate)/layered Silicate Nanocomposites by Polycondensation. <i>High Performance Polymers</i> , <b>2007</b> , 19, 565-580	1.6	11
49	Abiotic versus biotic iron mineral transformation studied by a miniaturized backscattering Mössbauer spectrometer (MIMOS II), X-ray diffraction and Raman spectroscopy. <i>Icarus</i> , <b>2017</b> , 296, 49-58	3.8	10
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