

# Thorsten Hoffmann

## List of Publications by Year in Descending Order

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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.

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	Towards comprehensive non-target screening using heart-cut two-dimensional liquid chromatography for the analysis of organic atmospheric tracers in ice cores. <i>Journal of Chromatography A</i> , <b>2021</b> , 1661, 462706	4.5	
176	Bromine speciation in volcanic plumes: new in situ derivatization LC-MS method for the determination of gaseous hydrogen bromide by gas diffusion denuder sampling. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 6395-6406	4	
175	Measurement report: PM <sub>2.5</sub> -bound nitrated aromatic compounds in Xi'an, Northwest China: Seasonal variations and contributions to optical properties of brown carbon. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 3685-3697	6.8	2
174	Lignin oxidation products in soil, dripwater and speleothems from four different sites in New Zealand. <i>Biogeosciences</i> , <b>2021</b> , 18, 2289-2300	4.6	1
173	The maximum carbonyl ratio (MCR) as a new index for the structural classification of secondary organic aerosol components. <i>Rapid Communications in Mass Spectrometry</i> , <b>2021</b> , 35, e9113	2.2	2
172	A multi-purpose, multi-rotor drone system for long-range and high-altitude volcanic gas plume measurements. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 4255-4277	4	3
171	Urban organic aerosol composition in eastern China differs from north to south: molecular insight from a liquid chromatography-mass spectrometry (Orbitrap) study. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 9089-9104	6.8	5
170	High Pressure Inside Nanometer-Sized Particles Influences the Rate and Products of Chemical Reactions. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 7786-7793	10.3	4
169	Halogen activation in the plume of Masaya volcano: field observations and box model investigations. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 3371-3393	6.8	6
168	Aqueous-phase reactive species formed by fine particulate matter from remote forests and polluted urban air. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 10439-10455	6.8	3
167	Measurement report of the change of PM composition during the COVID-19 lockdown in urban Xi'an: Enhanced secondary formation and oxidation. <i>Science of the Total Environment</i> , <b>2021</b> , 791, 148126 <sup>10.2</sup>	10.2	3
166	Concentrations, optical properties and sources of humic-like substances (HULIS) in fine particulate matter in Xi'an, Northwest China. <i>Science of the Total Environment</i> , <b>2021</b> , 789, 147902	10.2	3
165	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 <sup>6.8</sup>	6.8	25
164	Charged Tags for the Identification of Oxidative Drug Metabolites Based on Electrochemistry and Mass Spectrometry. <i>ChemistryOpen</i> , <b>2020</b> , 9, 568-572	2.3	2
163	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
162	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
161	Effects of NH and alkaline metals on the formation of particulate sulfate and nitrate in wintertime Beijing. <i>Science of the Total Environment</i> , <b>2020</b> , 717, 137190	10.2	10

160	Application of time-of-flight aerosol mass spectrometry for the real-time measurement of particle-phase organic peroxides: an online redox derivatization aerosol mass spectrometer (ORD-AMS). <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 5725-5738	4	1
159	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
158	Nano-hygroscopicity tandem differential mobility analyzer (nano-HTDMA) for investigating hygroscopic properties of sub-10 nm aerosol nanoparticles. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 5551-5567	4	3
157	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
156	One-year characterization of organic aerosol markers in urban Beijing: Seasonal variation and spatiotemporal comparison. <i>Science of the Total Environment</i> , <b>2020</b> , 743, 140689	10.2	4
155	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
154	Determination of n-alkanes, polycyclic aromatic hydrocarbons and hopanes in atmospheric aerosol: evaluation and comparison of thermal desorption GC-MS and solvent extraction GC-MS approaches. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 4779-4789	4	9
153	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
152	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
151	Physicochemical uptake and release of volatile organic compounds by soil in coated-wall flow tube experiments with ambient air. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 2209-2232	6.8	9
150	Lignin oxidation products as a potential proxy for vegetation and environmental changes in speleothems and cave drip water – a first record from the Herbstlabyrinth, central Germany. <i>Climate of the Past</i> , <b>2019</b> , 15, 1025-1037	3.9	4
149	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
148	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
147	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
146	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
145	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
144	Quantification of lignin oxidation products as vegetation biomarkers in speleothems and cave drip water. <i>Biogeosciences</i> , <b>2018</b> , 15, 5831-5845	4.6	2
143	Advances in Bromine Speciation in Volcanic Plumes. <i>Frontiers in Earth Science</i> , <b>2018</b> , 6,	3.5	15

142	Physicochemical uptake and release of volatile organic compounds by soil in coated-wall flow tube experiments with ambient air <b>2018</b> ,		1
141	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
140	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
139	Synthesis and characterisation of peroxydic acids as proxies for highly oxygenated molecules (HOMs) in secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 10973-10983	6.8	8
138	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
137	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
136	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
135	Fuel For Lamps: Organic Residues Preserved in Iron Age Lamps Excavated at the Site of Sahab in Jordan. <i>Archaeometry</i> , <b>2017</b> , 59, 934-948	1.6	5
134	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
133	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
132	Development and application of a sampling method for the determination of reactive halogen species in volcanic gas emissions. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 5975-5985	4.4	10
131	Severe Pollution in China Amplified by Atmospheric Moisture. <i>Scientific Reports</i> , <b>2017</b> , 7, 15760	4.9	122
130	Light-induced protein nitration and degradation with HONO emission. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 11819-11833	6.8	15
129	Real-time detection of highly oxidized organosulfates and BSOA marker compounds during the F-BEACH 2014 field study. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 1453-1469	6.8	29
128	Metaproteomic analysis of atmospheric aerosol samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 6337-48	4.4	13
127	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
126	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
125	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

124	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
123	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
122	Real-time detection of highly oxidized organosulfates and BSOA marker compounds during the FBEACH 2014 field study <b>2016</b> ,		1
121	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
120	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
119	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
118	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
117	Bioaerosols in the Earth system: Climate, health, and ecosystem interactions. <i>Atmospheric Research</i> , <b>2016</b> , 182, 346-376	5.4	406
116	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
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	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
113	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
112	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
111	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
110	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
109	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
108	Analysis of organic aerosols using a micro-orifice volatilization impactor coupled to an atmospheric-pressure chemical ionization mass spectrometer. <i>European Journal of Mass Spectrometry</i> , <b>2014</b> , 20, 31-41	1.1	6
107	Emission of iodine-containing volatiles by selected microalgae species. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 13327-13335	6.8	5

106	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
105	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
104	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
103	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
102	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
101	New tracer compounds for secondary organic aerosol formation from Caryophyllene oxidation. <i>Atmospheric Environment</i> , <b>2013</b> , 80, 122-130	5.3	27
100	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
99	Online atmospheric pressure chemical ionization ion trap mass spectrometry (APCI-IT-MS <sup>+</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
98	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
97	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
96	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
95	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
94	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
93	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
92	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
91	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
90	Formation of 3-methyl-1,2,3-butanetricarboxylic acid via gas phase oxidation of pinonic acid in a mass spectrometric study of SOA aging. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 1483-1496	6.8	162
89	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

88	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
87	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
86	Iodine emissions from the sea ice of the Weddell Sea. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 11229-11246	6.8	149
85	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
84	Atmospheric analytical chemistry. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 4649-64	7.8	52
83	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
82	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
81	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
80	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
79	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
78	Phosphorus-containing Polysulfones - A Comparative Study. <i>High Performance Polymers</i> , <b>2010</b> , 22, 715-741	7.1	7
77	Observations of high concentrations of I <sub>2</sub> 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
76	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
75	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>x</sub> . <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 4823-4833	6.8	46
74	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
73	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
72	Diffusion technique for the generation of gaseous halogen standards. <i>Journal of Chromatography A</i> , <b>2010</b> , 1217, 2065-9	4.5	8
71	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

70	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
69	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>2009</b> , 81, 1777-83	7.8	40
68	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
67	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
66	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
65	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
64	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
63	Properties of Segmented Block Copolymers in PEEK/PSU Blends. <i>High Performance Polymers</i> , <b>2008</b> , 20, 601-614	1.6	9
62	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
61	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
60	Iodine speciation in rain, snow and aerosols. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 6069-6084	6.8	76
59	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
58	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
57	Reply to Mirror Symmetry Breaking of the Centrosymmetric CaCO <sub>3</sub> Crystals with Amino Acids. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 3683-3686	16.4	3
56	A denuder-impinger system with in situ derivatization followed by gas chromatography-mass spectrometry for the determination of gaseous iodine-containing halogen species. <i>Journal of Chromatography A</i> , <b>2008</b> , 1210, 135-41	4.5	10
55	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	1.2	10
54	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
53	Iodine Speciation in Marine Boundary Layer <b>2007</b> , 1055-1059		1



52	Chemie von Aerosolen. <i>Chemie in Unserer Zeit</i> , <b>2007</b> , 41, 232-246	0.2	5
51	Modification of Polysulfones by Carboxylic Acids. <i>High Performance Polymers</i> , <b>2007</b> , 19, 48-61	1.6	2
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	Organic Aerosols <b>2007</b> , 342-387		9
48	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
47	Characterization of iodine species in the marine aerosol: To understand their roles in particle formation processes. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , <b>2006</b> , 1, 119-129		7
46	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
45	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
44	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
43	Monitoring of the polycondensation reaction of bisphenol A and 4,4'-dichlorodiphenylsulfone towards polysulfone (PSU) by real-time ATRFTIR spectroscopy. <i>European Polymer Journal</i> , <b>2006</b> , 42, 2292-2301	5.2	20
42	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
41	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
40	Electron beam irradiation of molten polysulfone. <i>Polymer Degradation and Stability</i> , <b>2005</b> , 90, 379-385	4.7	10
39	Marine aerosols and iodine emissions (Reply). <i>Nature</i> , <b>2005</b> , 433, E13-E14	50.4	13
38	Novel Phosphorous-Containing Aromatic Polyethers Synthesis and Characterization. <i>Macromolecular Chemistry and Physics</i> , <b>2005</b> , 206, 423-431	2.6	42
37	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
36	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
35	QUANTIFICATION OF AEROSOL NUCLEATION IN THE EUROPEAN BOUNDARY LAYER (QUEST): RESULTS FROM AN INTENSIVE FIELD CAMPAIGN IN BOREAL FOREST. <i>Journal of Aerosol Science</i> , <b>2004</b> , 35, S1225-S1226	4.3	1

34	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
33	A new feedback mechanism linking forests, aerosols, and climate. <i>Atmospheric Chemistry and Physics</i> , <b>2004</b> , 4, 557-562	6.8	286
32	Overview of the field measurement campaign in Hyytiälä August 2001 in the framework of the EU project OSOA. <i>Atmospheric Chemistry and Physics</i> , <b>2004</b> , 4, 657-678	6.8	46
31	Real-time mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2003</b> , 375, 36-7	4.4	3
30	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
29	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
28	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
27	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
26	Marine aerosol formation from biogenic iodine emissions. <i>Nature</i> , <b>2002</b> , 417, 632-6	50.4	611
25	Aerosol formation: atmospheric particles from organic vapours. <i>Nature</i> , <b>2002</b> , 416, 497-8	50.4	348
24	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
23	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
22	Calculating a Relational Program for Transitive Reductions of Strongly Connected Graphs. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 258-275	0.9	
21	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>2001</b> , 53, 406-422	3.3	22
20	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
19	Ein analytischer Ansatz für eine detaillierte Studie des atmosphärischen organischen Aerosols. <i>Angewandte Chemie</i> , <b>2001</b> , 113, 4129-4132	3.6	5
18	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
17	Relational depth-first-search with applications. <i>Information Sciences</i> , <b>2001</b> , 139, 167-186	7.7	13

16	On-line measurements of $\alpha$ -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
15	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
14	Deriving relational programs for computing kernels by reconstructing a proof of Richardson's theorem. <i>Science of Computer Programming</i> , <b>2000</b> , 38, 1-25	1.1	7
13	Field and laboratory studies on secondary organic aerosol composition. <i>Journal of Aerosol Science</i> , <b>2000</b> , 31, 236-237	4.3	
12	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
11	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
10	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
9	Spurenanalytik luftgetragener organischer Komponenten. <i>Nachrichten Aus Der Chemie</i> , <b>1999</b> , 47, 801-804		
8	Atmosphärenchemie biogener Kohlenwasserstoffe. <i>Chemie in Unserer Zeit</i> , <b>1998</b> , 32, 182-191	0.2	2
7	Using thermodesorption-GC/cryocondensation-FT-IR for the measurement of biogenic VOC emissions. <i>Fresenius Journal of Analytical Chemistry</i> , <b>1998</b> , 362, 148-154		5
6	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
5	Sampling and analysis of terpenes in air. An interlaboratory comparison. <i>Atmospheric Environment</i> , <b>1997</b> , 31, 35-49	5.3	66
4	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
3	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
2	Gas/Particle Partitioning and Secondary Organic Aerosol Yields. <i>Environmental Science &amp; Technology</i> , <b>1996</b> , 30, 2580-2585	10.3	1186
1	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