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## Evolution of organic aerosols in the atmosphere

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256	Persistent Influence of Wildfire Emissions in the Western United States and Characteristics of Aged Biomass Burning Organic Aerosols under Clean Air Conditions <b>2022</b> ,	1
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242	PM-bound organosulfates in two Eastern Mediterranean cities: The dominance of isoprene organosulfates <b>2022</b> , 297, 134103	O
241	Characterization of chemical and physical changes in atmospheric aerosols during fog processing at Baengnyeong Island, South Korea. <b>2022</b> , 278, 119091	
240	Rapid transition of aerosol optical properties and water-soluble organic aerosols in cold season in Fenwei Plain <b>2022</b> , 154661	Ο
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207	A new on-line SPE LC-HRMS method for the analysis of Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) in PM and its application for screening atmospheric particulates from Dublin and Enniscorthy, Ireland <b>2022</b> , 155496	1
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149	Modelling ultrafine particle growth in a flow tube reactor. <b>2022</b> , 15, 4663-4674	
148	Sources and processes of water-soluble and water-insoluble organic aerosol in cold season in Beijing, China. <b>2022</b> , 22, 10409-10423	
147	Comparisons of GC-Measured Carboxylic Acids and AMS m/z 44 Signals: Contributions of Organic Acids to m/z 44 Signals in Remote Aerosols from Okinawa Island. <b>2022</b> , 12, 8017	
146	High temperature and pressure regime soot: Physical, optical and chemical signatures from high explosive detonations. 1-16	
145	Chemical composition of secondary organic aerosol particles formed from mixtures of anthropogenic and biogenic precursors. <b>2022</b> , 22, 9799-9826	1
144	Measurement report: Large contribution of biomass burning and aqueous-phase processes to the wintertime secondary organic aerosol formation in Xi'an, Northwest China. <b>2022</b> , 22, 10139-10153	O
143	Persistence of Monoterpene-Derived Organic Peroxides in the Atmospheric Aqueous Phase.	O
142	Effects of OH radical and SO2 concentrations on photochemical reactions of mixed anthropogenic organic gases. <b>2022</b> , 22, 10489-10504	1
141	Glass Transition Temperatures of Individual Submicrometer Atmospheric Particles: Direct Measurement via Heated Atomic Force Microscopy Probe.	O
140	Watching Paint Dry: Organic Vapor Emissions from Architectural Coatings and their Impact on Secondary Organic Aerosol Formation. <b>2022</b> , 56, 11236-11245	1
139	Particle-Phase Uptake and Chemistry of Highly Oxygenated Organic Molecules (HOMs) From $\Box$ -Pinene OH Oxidation. <b>2022</b> , 127,	1
138	Effects of atmospheric aging processes on carbonaceous species and water-soluble inorganic ions in biomass burning aerosols. <b>2022</b> , 288, 119322	

137	Unveiling the spatial and sectoral characteristics of a high-resolution emission inventory of CO2 and air pollutants in China. <b>2022</b> , 847, 157623	1
136	Suppression of the phenolic SOA formation in the presence of electrolytic inorganic seed. <b>2022</b> , 851, 158082	
135	Tutorial: Dynamic organic growth modeling with a volatility basis set. <b>2022</b> , 166, 106063	0
134	Saccharides in atmospheric PM2.5 in tropical forest region of southwest China: Insights into impacts of biomass burning on organic carbon aerosols. <b>2022</b> , 308, 136251	O
133	Optical properties, molecular characterizations, and oxidative potentials of different polarity levels of water-soluble organic matters in winter PM2.5 in six China's megacities. <b>2022</b> , 853, 158600	О
132	Toxicological effects of fresh and aged gasoline exhaust particles in Hong Kong. <b>2023</b> , 441, 129846	O
131	The Driving Effects of Common Atmospheric Molecules for Formation of Prenucleation Clusters: The Case of Sulfuric Acid, Formic Acid, Nitric Acid, Ammonia, and Dimethyl Amine.	2
130	Equilibration times in viscous and viscoelastic aerosol particles.	O
129	Aqueous-phase chemistry of atmospheric phenolic compounds: A critical review of laboratory studies. <b>2023</b> , 856, 158895	O
128	Organic aerosol sources in Krakow, Poland, before implementation of a solid fuel residential heating ban. <b>2023</b> , 855, 158655	O
127	Chemical characterization of sub-micron aerosols over the East Sea (Sea of Japan). 2023, 856, 159173	О
126	Large contribution of fossil-derived components to aqueous secondary organic aerosols in China. <b>2022</b> , 13,	1
125	Evaluation of the Sources, Precursors, and Processing of Aerosols at a High-Altitude Tropical Site.	О
124	A Lagrangian particle-based numerical model for surfactant-laden droplets at macroscales. <b>2022</b> , 34, 095126	O
123	Exploring the Nanostructures Accessible to an Organic Surfactant Atmospheric Aerosol Proxy.	1
122	Atmospheric Particles Are Major Sources of Aged Anthropogenic Organic Carbon in Marginal Seas. <b>2022</b> , 56, 14198-14207	2
121	Tracing the Formation of Secondary Aerosols Influenced by Solar Radiation and Relative Humidity in Suburban Environment. <b>2022</b> , 127,	О
120	Novel Single-Particle Analytical Technique for Submicron Atmospheric Aerosols: Combined Use of Dark-Field Scattering and Surface-Enhanced Raman Spectroscopy. <b>2022</b> , 94, 13028-13035	1

119	Evolution of Brown Carbon Aerosols during Atmospheric Long-Range Transport in the South Asian Outflow and Himalayan Cryosphere.	О
118	A new hot-stage microscopy technique for measuring temperature-dependent viscosities of aerosol particles and its application to farnesene secondary organic aerosol. <b>2022</b> , 15, 5545-5561	О
117	Volatile Organic Compound Sampling through Rotor Unmanned Aerial Vehicle Technique for Environmental Monitoring. <b>2022</b> , 13, 1442	О
116	Secondary Organic Aerosol Mass Yields from NO3 Oxidation of ⊕inene and Œarene: Effect of RO2 Radical Fate.	1
115	Rolling vs. seasonal PMF: real-world multi-site and synthetic dataset comparison. <b>2022</b> , 15, 5479-5495	O
114	Measurement report: Characterisation and sources of the secondary organic carbon in a Chinese megacity over 5 years from 2016 to 2020. <b>2022</b> , 22, 12789-12802	1
113	OH Group Orientation Leads to Organosulfate Formation at the Liquid Aerosol Surface. <b>2022</b> , 144, 16953-16	5964
112	Acylperoxy Radicals as Key Intermediates in the Formation of Dimeric Compounds in Pinene Secondary Organic Aerosol.	O
111	The response of summertime organic aerosol composition to emission controls in the northeastern United States.	О
110	Estimated timescales for wet deposition of organic compounds as a function of Henry's law constants.	O
109	Does liquid[Iquid phase separation impact ice nucleation in mixed polyethylene glycol and ammonium sulfate droplets?.	О
108	Particle-phase processing of binene NO3 secondary organic aerosol in the dark. <b>2022</b> , 22, 13167-13182	2
107	The influence of the addition of isoprene on the volatility of particles formed from the photo-oxidation of anthropogenicBiogenic mixtures. <b>2022</b> , 22, 13677-13693	1
106	New Reactions for the Formation of Organic Nitrate in the Atmosphere.	O
105	Composition, Emissions, and Air Quality Impacts of Hazardous Air Pollutants in Unburned Natural Gas from Residential Stoves in California.	1
104	Measurement report: Closure analysis of aerosolfloud composition in tropical maritime warm convection. <b>2022</b> , 22, 13269-13302	O
103	Chemical analysis of the Asian tropopause aerosol layer (ATAL) with emphasis on secondary aerosol particles using aircraft-based in situ aerosol mass spectrometry. <b>2022</b> , 22, 13607-13630	0
102	Mobile Sources Are Still an Important Source of Secondary Organic Aerosol and Fine Particulate Matter in the Los Angeles Region.	О

101	Hygroscopicity and CCN potential of DMS-derived aerosol particles. 2022, 22, 13449-13466	O
100	A Closure Study of Secondary Organic Aerosol Estimation at an Urban Site of Yangtze River Delta, China. <b>2022</b> , 13, 1679	O
99	Source apportionment resolved by time of day for improved deconvolution of primary source contributions to air pollution. <b>2022</b> , 15, 6051-6074	Ο
98	Phase State and Relative Humidity Regulate the Heterogeneous Oxidation Kinetics and Pathways of Organic-Inorganic Mixed Aerosols.	O
97	PM2.5 Source Apportionment and Implications for Particle Hygroscopicity at an Urban Background Site in Athens, Greece. <b>2022</b> , 13, 1685	2
96	Unexpected significance of a minor reaction pathway in daytime formation of biogenic highly oxygenated organic compounds. <b>2022</b> , 8,	Ο
95	Real-Time Source Apportionment of Organic Aerosols in Three European Cities.	0
94	Building an oxidation reactor in Taiwan: From volatile organic compounds to secondary organic aerosols.	O
93	Intercomparison of airborne and surface-based measurements during the CLARIFY, ORACLES and LASIC field experiments. <b>2022</b> , 15, 6329-6371	0
92	Not all types of secondary organic aerosol mix: two phases observed when mixing different secondary organic aerosol types. <b>2022</b> , 22, 13783-13796	O
91	Effects of NO2 and SO2 on the secondary organic aerosol formation from beta-pinene photooxidation. <b>2022</b> ,	O
90	Quantification of enhanced VOC emissions from fireworks. <b>2022</b> , 315, 120389	O
89	Effect of OH scavengers on the chemical composition of Epinene secondary organic aerosol.	O
88	Real-world emission characteristics of semivolatile/intermediate-volatility organic compounds originating from nonroad construction machinery in the working process. <b>2023</b> , 858, 159970	O
87	Radiative effects of absorbing aerosol types over South Asia. <b>2023</b> , 858, 159969	Ο
86	Water Solubility Distribution of Organic Matter Accounts for the Discrepancy in Hygroscopicity among Sub- and Supersaturated Humidity Regimes.	O
85	Chamber investigation of the formation and transformation of secondary organic aerosol in mixtures of biogenic and anthropogenic volatile organic compounds. <b>2022</b> , 22, 14147-14175	2
84	Isoprene Epoxydiol-Derived Sulfated and Nonsulfated Oligomers Suppress Particulate Mass Loss during Oxidative Aging of Secondary Organic Aerosol.	Ο

83	Dust emission reduction enhanced gas-to-particle conversion of ammonia in the North China Plain. <b>2022</b> , 13,	O
82	Secondary organic aerosol formation from mixed volatile organic compounds: Effect of RO2 chemistry and precursor concentration. <b>2022</b> , 5,	O
81	Superoxide Release by Macrophages through NADPH Oxidase Activation Dominating Chemistry by Isoprene Secondary Organic Aerosols and Quinones to Cause Oxidative Damage on Membranes.	O
80	Role of morphology and chemical composition of PM for particle deposition in human respiratory system: A case study over megacity-Delhi. <b>2023</b> , 47, 101344	1
79	Oxidation pathways of linoleic acid revisited with electrodynamic balancehass spectrometry.	0
78	Interfacial photochemistry of marine diatom lipids: Abiotic production of volatile organic compounds and new particle formation. <b>2023</b> , 313, 137510	O
77	Seasonal Variation of Aerosol Composition and Sources of Water-Soluble Organic Carbon in an Eastern City of China. <b>2022</b> , 13, 1968	0
76	Physico-Chemical Properties and Deposition Potential of PM2.5 during Severe Smog Event in Delhi, India. <b>2022</b> , 19, 15387	O
75	Superficial Tale of Two Functional Groups: On the Surface Propensity of Aqueous Carboxylic Acids, Alkyl Amines, and Amino Acids. <b>2022</b> , 55, 3285-3293	0
74	Source apportionment of VOCs, IVOCs and SVOCs by positive matrix factorization in suburban Livermore, California. <b>2022</b> , 22, 14987-15019	O
73	New Particle Formation and Growth Dynamics for Pinene Ozonolysis in a Smog Chamber and Implications for Ambient Environments. <b>2022</b> , 6, 2826-2835	0
72	Variations of aerosol and cloud vertical characteristics based on aircraft measurements in upstream of Shanghai during the 2020 China international import expo. 10,	O
71	Remote sensing of aerosol water fraction, dry size distribution and soluble fraction using multi-angle, multi-spectral polarimetry. <b>2022</b> , 15, 7411-7434	O
70	Underestimated Contribution of Heavy Aromatics to Secondary Organic Aerosol Revealed by Comparative Assessments Using New and Traditional Methods.	O
69	Vapors Are Lost to Walls, Not to Particles on the Wall: Artifact-Corrected Parameters from Chamber Experiments and Implications for Global Secondary Organic Aerosol.	2
68	Enviro-HIRLAM model estimates of elevated black carbon pollution over Ukraine resulted from forest fires. <b>2022</b> , 22, 15777-15791	O
67	Submicron Aerosol Composition and Source Contribution across the Kathmandu Valley, Nepal, in Winter.	1
66	Detecting and Characterizing Particulate Organic Nitrates with an Aerodyne Long-ToF Aerosol Mass Spectrometer.	O

65	Mass spectrometry-based Aerosolomics: a new approach to resolve sources, composition, and partitioning of secondary organic aerosol. <b>2022</b> , 15, 7137-7154	0
64	Non-linear effects of secondary organic aerosol formation and properties in multi-precursor systems. <b>2022</b> , 13,	O
63	Quantification of primary and secondary organic aerosol sources by combined factor analysis of extractive electrospray ionisation and aerosol mass spectrometer measurements (EESI-TOF and AMS). <b>2022</b> , 15, 7265-7291	О
62	Chemical Compositions, Sources, and Intra-Regional Transportation of Submicron Particles Between North China Plain and Twain-Hu Basin of Central China in Winter. <b>2022</b> , 127,	O
61	Relationships of the Hygroscopicity of HULIS With Their Degrees of Oxygenation and Sources in the Urban Atmosphere. <b>2022</b> , 127,	O
60	Molecular Tracer Characterization during COVID-19 Pandemic in Shanghai: Changes in the Aerosol Aqueous Environment and Implications for Secondary Organic Aerosol Formation. <b>2022</b> , 6, 2812-2825	O
59	Source characterization of volatile organic compounds in urban Beijing and its links to secondary organic aerosol formation. <b>2022</b> , 160469	0
58	Exploring condensable organic vapors and their co-occurrence with PM2.5 and O3 in winter over Eastern China.	O
57	Molecular tracers, mass spectral tracers and oxidation of organic aerosols emitted from cooking and fossil fuel burning sources. <b>2023</b> , 161635	0
56	Organic Peroxides in Aerosol: Key Reactive Intermediates for Multiphase Processes in the Atmosphere.	1
55	Ring-opening yields and auto-oxidation rates of the resulting peroxy radicals from OH-oxidation of pinene and pinene.	0
54	Impact of phase state and non-ideal mixing on equilibration timescales of secondary organic aerosol partitioning. <b>2023</b> , 23, 221-233	O
53	Impact of aging on the sources, volatility, and viscosity of organic aerosols in Chinese outflows. <b>2023</b> , 23, 611-636	0
52	On the Fresnel Factor Correction of Sum-Frequency Generation Spectra of Interfacial Water.	1
51	Profile of atmospheric VOC over the Yellow Sea, China: A tale of distribution, constraints, and sources. <b>2023</b> , 161634	0
50	High efficiency of nitric acid controls in alleviating particulate nitrate in livestock and urban areas in South Korea.	O
49	Sources of organic aerosols in eastern China: a modeling study with high-resolution intermediate-volatility and semivolatile organic compound emissions. <b>2023</b> , 23, 323-344	0
48	Modeling Secondary Organic Aerosols in China: State of the Art and Perspectives.	O

47	Diurnal variations in primary and secondary organic aerosols in an eastern China coastal city: The impact of land-sea breezes. <b>2023</b> , 319, 121016	1
46	Explosive formation of secondary organic aerosol due to aerosol-fog interactions. <b>2023</b> , 866, 161338	O
45	Linking Cell Health and Reactive Oxygen Species from Secondary Organic Aerosols Exposure. <b>2023</b> , 57, 1039-1048	О
44	Atmospheric Oxidation and Secondary Particle Formation. 2023, 19-91	O
43	Current air quality monitoring methods. <b>2023</b> , 13-103	О
42	Molecular Understanding of the Enhancement in Organic Aerosol Mass at High Relative Humidity.	O
41	Long-term monitoring of cloud water chemistry at Whiteface Mountain: the emergence of a new chemical regime. <b>2023</b> , 23, 1619-1639	О
40	Kinetics of the nitrate-mediated photooxidation of monocarboxylic acids in the aqueous phase.	O
39	Optical trapping and light scattering in atmospheric aerosol science. <b>2023</b> , 25, 7066-7089	0
38	Measurement report: Chemical components and 13C and 15N isotope ratios of fine aerosols over Tianjin, North China: year-round observations. <b>2023</b> , 23, 2119-2143	O
37	Observations of biogenic volatile organic compounds over a mixed temperate forest during the summer to autumn transition. <b>2023</b> , 23, 4123-4148	О
36	A Scheme for Representing Aromatic Secondary Organic Aerosols in Chemical Transport Models: Application to Source Attribution of Organic Aerosols Over South Korea During the KORUS-AQ Campaign. <b>2023</b> , 128,	O
35	Sulfate-associated liquid water amplifies the formation of oxalic acid at a semi-arid tropical location over peninsular India during winter. <b>2023</b> , 874, 162365	О
34	Seasonal variation of particle hygroscopicity and its impact on cloud-condensation nucleus activation in the Beijing urban area. <b>2023</b> , 302, 119728	O
33	First insights into the molecular characteristics of atmospheric organic aerosols from lasi, Romania: Behavior of biogenic versus anthropogenic contributions and potential implications. <b>2023</b> , 877, 162830	0
32	The joint effects of atmospheric dry and wet deposition on organic carbon cycling in a mariculture area in North China. <b>2023</b> , 876, 162715	O
31	Real time measurements of the secondary organic aerosol formation and aging from ambient air using an oxidation flow reactor in seoul during winter. <b>2023</b> , 327, 121464	О
30	The first balloon-borne sample analysis of atmospheric carbonaceous components reveals new insights into formation processes. <b>2023</b> , 326, 138421	O

29	Contrasting the characteristics, sources, and evolution of organic aerosols between summer and winter in a megacity of China. <b>2023</b> , 877, 162937	О
28	Aqueous-phase photo-oxidation of selected green leaf volatiles initiated by OH radicals: Products and atmospheric implications. <b>2023</b> , 879, 162622	O
27	Size distributions of molecular markers for biogenic secondary organic aerosol in urban Beijing. <b>2023</b> , 327, 121569	0
26	Regional Sources and Seasonal Variability of Rainwater Dissolved Organic and Inorganic Nitrogen at a Mid-Atlantic, USA Coastal Site. <b>2023</b> , 128,	O
25	Computational Investigation of Substituent Effects on the Alcohol + Carbonyl Channel of Peroxy Radical Self- and Cross-Reactions. <b>2023</b> , 127, 1686-1696	O
24	Impact of changes in refractive indices of secondary organic aerosols on precipitation over China during 1980\(\textit{0}\)019. <b>2023</b> , 299, 119644	O
23	Contrasting Influence of Nitrogen Oxides on the Cloud Condensation Nuclei Activity of Monoterpene-Derived Secondary Organic Aerosol in Daytime and Nighttime Oxidation. <b>2023</b> , 50,	О
22	Advecting Superspecies: Efficiently Modeling Transport of Organic Aerosol With a Mass-Conserving Dimensionality Reduction Method. <b>2023</b> , 15,	O
21	Predicting the environmental fates of emerging contaminants: Synergistic effects in ozone reactions of nitrogen-containing alkenes. <b>2023</b> , 9,	O
20	Characterization of volatile organic compounds and submicron organic aerosol in a traffic environment. <b>2023</b> , 23, 2963-2982	O
19	CCN activation of ultrafine biogenic-WSOC under restricted anthropogenic emissions: A study over eastern Himalaya in India. <b>2023</b> , 287, 106704	0
18	Aqueous-phase formation of N-containing secondary organic compounds affected by the ionic strength. <b>2024</b> , 138, 88-101	O
17	Unambiguous identification of N-containing oxygenated organic molecules using a chemical-ionization Orbitrap (CI-Orbitrap) in an eastern Chinese megacity. <b>2023</b> , 23, 3233-3245	0
16	Tracking the Photomineralization Mechanism in Irradiated Lab-Generated and Field-Collected Brown Carbon Samples and Its Effect on Cloud Condensation Nuclei Abilities.	O
15	Organic synthesis in the study of terpene-derived oxidation products in the atmosphere.	0
14	Mechanism of Fenton Oxidation of Levoglucosan in Water. <b>2023</b> , 127, 2975-2985	O
13	A combined gas- and particle-phase analysis of highly oxygenated organic molecules (HOMs) from pinene ozonolysis. <b>2023</b> , 23, 3707-3730	O
12	Online measurement of highly oxygenated compounds from organic aerosol. <b>2023</b> , 16, 1705-1721	O

11	Drivers of High Concentrations of Secondary Organic Aerosols in Northern China during the COVID-19 Lockdowns. <b>2023</b> , 57, 5521-5531	0
10	Classifying aerosol type using in situ and satellite observations over a semi-arid station, Anantapur, from southern peninsular India. <b>2023</b> ,	O
9	Single-particle measurements and estimations of activity coefficients for semi-volatile organic compounds in organic aerosol of known chemical speciation.	0
8	Nitrate radicals suppress biogenic new particle formation from monoterpene oxidation.	O
7	The density of ambient black carbon retrieved by a new method: implications for cloud condensation nuclei prediction. <b>2023</b> , 23, 4327-4342	0
6	Hydrogen-Bonding Interactions of Malic Acid with Common Atmospheric Bases.	O
5	Response of organic aerosol characteristics to emission reduction in Yangtze River Delta region. <b>2023</b> , 17,	0
4	Unexpectedly Efficient Aging of Organic Aerosols Mediated by Autoxidation.	O
3	Seasonal variation of aerosol optical properties in a coastal city of southeast China: Based on one year of measurements. <b>2023</b> , 119804	O
2	A review of environmental emissions from asphalt plants and paving. <b>2023</b> , 7, 59-66	O
1	Multiple pathways for the formation of secondary organic aerosol in the North China Plain in summer. <b>2023</b> , 23, 5419-5433	O