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Secondary organic aerosol formation from anthropogenic air pollution: Rapid and higher than expected

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967	Concentrations and sources of organic carbon aerosols in the free troposphere over North America. <b>2006</b> , 111,		97
966	Implementation of a Markov Chain Monte Carlo method to inorganic aerosol modeling of observations from the MCMA-2003 campaign [Part 1]: Model application to the CENICA, Pedregal and Santa Ana sites. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 4889-4904	6.8	29
965	The characterisation of pollution aerosol in a changing photochemical environment. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 5573-5588	6.8	49
964	PM speciation and sources in Mexico during the MILAGRO-2006 Campaign. <b>2007</b> ,		3
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961	Secondary organic aerosol formation from $\alpha$ -xylene, toluene, and benzene. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 3909-3922	6.8	580
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499	Volatility and lifetime against OH heterogeneous reaction of ambient isoprene-epoxydiols-derived secondary organic aerosol (IEPOX-SOA). <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 11563-11580	6.8	60
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491	Coalescence-based assessment of aerosol phase state using dimers prepared through a dual-differential mobility analyzer technique. <b>2016</b> , 50, 1294-1305		25
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486	Megacities, air quality and climate. <b>2016</b> , 126, 235-249		187
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483	A review of dicarboxylic acids and related compounds in atmospheric aerosols: Molecular distributions, sources and transformation. <b>2016</b> , 170, 140-160		195

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477	Comparison of characteristics of aerosol during rainy weather and cold air-dust weather in Guangzhou in late March 2012. <b>2016</b> , 124, 451-459		4
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411	Variability in the primary emissions and secondary gas and particle formation from vehicles using bioethanol mixtures. <b>2018</b> , 68, 329-346		11



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404	Comparison of secondary organic aerosol formation from toluene on initially wet and dry ammonium sulfate particles at moderate relative humidity. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 5677-5689	6.8	17
403	Organic Nitrates and Secondary Organic Aerosol (SOA) Formation from Oxidation of Biogenic Volatile Organic Compounds. <b>2018</b> , 105-125		4
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390	Dynamic Adsorption Model Fitting Studies of Typical VOCs Using Commercial Activated Carbon in a Fixed Bed. <b>2018</b> , 229, 1		13
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388	Aircraft observations of the chemical composition and aging of aerosol in the Manaus urban plume during GoAmazon 2014/5. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 10773-10797	6.8	20
387	Impact Analysis of Temperature and Humidity Conditions on Electrochemical Sensor Response in Ambient Air Quality Monitoring. <b>2018</b> , 18,		68
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385	Modeling the formation of traditional and non-traditional secondary organic aerosols from in-use, on-road gasoline and diesel vehicles exhaust. <b>2018</b> , 124, 68-82		2
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374	An extractive electrospray ionization time-of-flight mass spectrometer (EESI-TOF) for online measurement of atmospheric aerosol particles. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 4867-4886	4	46
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369	Seasonal characteristics of organic aerosol chemical composition and volatility in Stuttgart, Germany. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 11687-11700	6.8	14
368	Large-scale MODIS AOD products recovery: Spatial-temporal hybrid fusion considering aerosol variation mitigation. <b>2019</b> , 157, 1-12		33
367	Impact of Outdoor Air Pollution on Indoor Air Quality in Low-Income Homes during Wildfire Seasons. <b>2019</b> , 16,		36
366	Complex refractive index, single scattering albedo, and mass absorption coefficient of secondary organic aerosols generated from oxidation of biogenic and anthropogenic precursors. <b>2019</b> , 53, 449-463		10
365	Light scattering of a coated spherical particle with large absorption in Debye series expansion. <b>2019</b> , 436, 90-95		
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363	Evaluation and comparison of MODIS Collection 6.1 aerosol optical depth against AERONET over regions in China with multifarious underlying surfaces. <b>2019</b> , 200, 280-301		51
362	Observed below-Cloud and Cloud Interstitial Submicron Aerosol Chemical and Physical Properties at Whiteface Mountain, New York, during August 2017. <b>2019</b> , 3, 1438-1450		7
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355	Adsorption and Oxidative Desorption of Acetaldehyde over Mesoporous Fe O H /AlO. <b>2019</b> , 4, 5382-5391		13
354	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
353	Sulfur Dioxide Modifies Aerosol Particle Formation and Growth by Ozonolysis of Monoterpenes and Isoprene. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 4800-4811	4.4	15
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249	The importance of aerosol mixing state and size-resolved composition on CCN concentration and the variation of the importance with atmospheric aging of aerosols.		3

248	Glyoxal processing outside clouds: towards a kinetic modeling framework of secondary organic aerosol formation in aqueous particles.	9
247	Ship-based detection of glyoxal over the remote tropical Pacific Ocean.	3
246	Impact of aftertreatment devices on primary emissions and secondary organic aerosol formation potential from in-use diesel vehicles: results from smog chamber experiments.	5
245	An overview of the Amazonian Aerosol Characterization Experiment 2008 (AMAZE-08).	4
244	Quantitative estimates of the volatility of ambient organic aerosol.	9
243	Global modeling of organic aerosol: the importance of reactive nitrogen.	4
242	The European aerosol budget in 2006.	2
241	Characterization of the sources and processes of organic and inorganic aerosols in New York City with a high-resolution time-of-flight aerosol mass spectrometer.	5
240	Investigation of the sources and processing of organic aerosol over the Central Mexican Plateau from aircraft measurements during MILAGRO.	4
239	Photochemical processing of organic aerosol at nearby continental sites: contrast between urban plumes and regional aerosol.	6
238	Insights into the secondary fraction of the organic aerosol in a Mediterranean urban area: Marseille.	4
237	Diurnally resolved particulate and VOC measurements at a rural site: indication of significant biogenic secondary organic aerosol formation.	4
236	Evolution of organic aerosol mass spectra upon heating: implications for OA phase and partitioning behavior.	2
235	Modeling organic aerosols in a megacity: comparison of simple and complex representations of the volatility basis set approach.	6
234	Impact of Mexico City emissions on regional air quality from MOZART-4 simulations.	3
233	Investigation of the correlation between odd oxygen and secondary organic aerosol in Mexico City and Houston.	9
232	Impacts of HONO sources on the photochemistry in Mexico City during the MCMA-2006/MILAGO Campaign.	6
231	Potential contribution of semi-volatile and intermediate volatility primary organic compounds to secondary organic aerosol in the Mexico City region.	10

230	Chemical and aerosol characterisation of the troposphere over West Africa during the monsoon period as part of AMMA.	8
229	An overview of the MILAGRO 2006 campaign: Mexico City emissions and their transport and transformation.	27
228	Effects of aging on organic aerosol from open biomass burning smoke in aircraft and lab studies.	20
227	Photochemical modeling of glyoxal at a rural site: observations and analysis from BEARPEX 2007.	2
226	Explicit modeling of organic chemistry and secondary organic aerosol partitioning for Mexico City and its outflow plume.	7
225	Origins and composition of fine atmospheric carbonaceous aerosol in the Sierra Nevada Mountains, California.	3
224	Effect of isoprene emissions from major forests on ozone formation in the city of Shanghai, China.	1
223	Reformulating the atmospheric lifecycle of SOA based on new field and laboratory data.	2
222	Secondary organic aerosol formation in cloud droplets and aqueous particles (aqSOA): a review of laboratory, field and model studies.	12
221	A two-dimensional volatility basis set [Part 2: Diagnostics of organic-aerosol evolution.	5
220	Exploring the vertical profile of atmospheric organic aerosol: comparing 17 aircraft field campaigns with a global model.	6
219	A case study of aerosol processing and evolution in summer in New York City.	1
218	Transport and mixing patterns over Central California during the Carbonaceous Aerosol and Radiative Effects Study (CARES).	4
217	In-cloud oxalate formation in the global troposphere: a 3-D modeling study.	4
216	The influence of semi-volatile and reactive primary emissions on the abundance and properties of global organic aerosol.	4
215	Aerosol mass spectrometer constraint on the global secondary organic aerosol budget.	19
214	Size-resolved aerosol emission factors and new particle formation/growth activity occurring in Mexico City during the MILAGRO 2006 Campaign.	1
213	Volatility and hygroscopicity of aging secondary organic aerosol in a smog chamber.	6

212	VOC reactivity and its effect on ozone production during the HaChi summer campaign.	2
211	Overview of the 2010 Carbonaceous Aerosols and Radiative Effects Study (CARES).	10
210	The effect of model spatial resolution on Secondary Organic Aerosol predictions: a case study at Whistler, BC, Canada.	1
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208	Wintertime aerosol chemical composition and source apportionment of the organic fraction in the metropolitan area of Paris.	6
207	Peroxy radical chemistry and OH radical production during the NO <sub>2</sub> -initiated oxidation of isoprene.	3
206	The link between organic aerosol mass loading and degree of oxygenation: an $\alpha$ -pinene photooxidation study.	3
205	Enhanced SOA formation from mixed anthropogenic and biogenic emissions during the CARES campaign.	1
204	Evaluation of factors controlling global secondary organic aerosol production from cloud processes.	1
203	Formation of organic aerosol in the Paris region during the MEGAPOLI summer campaign: evaluation of the Volatility-Basis-Set approach within the CHIMERE model.	1
202	The impact of bark beetle infestation on monoterpene emissions and secondary organic aerosol formation in Western North America.	2
201	A Functional Group Oxidation Model (FGOM) for SOA formation and aging.	4
200	Multi-generation gas-phase oxidation, equilibrium partitioning, and the formation and evolution of secondary organic aerosol.	3
199	Quantification of diesel exhaust gas phase organics by a thermal desorption proton transfer reaction mass spectrometer.	5
198	Submicron particles influenced by mixed biogenic and anthropogenic emissions: high-resolution aerosol mass spectrometry results from the Carbonaceous Aerosols and Radiative Effects Study (CARES).	3
197	Characterization of aerosol and cloud water at a mountain site during WACS 2010: secondary organic aerosol formation through oxidative cloud processing.	3
196	Chemical characterization of springtime submicrometer aerosol in Po Valley, Italy.	2
195	Overview of aerosol properties associated with air masses sampled by the ATR-42 during the EUCAARI campaign (2008).	1

194	Does the POA-SOA split matter for global CCN formation?.	2
193	Online coupled regional meteorology-chemistry models in Europe: current status and prospects.	5
192	Water-soluble organic carbon over the Pearl River Delta region during fall/winter: spatial variations and source apportionment.	4
191	New approach to monitor transboundary particulate pollution over northeast Asia.	2
190	Semi-continuous measurements of gas/particle partitioning of organic acids in a ponderosa pine forest using a MOVI-HRToF-CIMS.	2
189	Characterization of submicron aerosols during a serious pollution month in Beijing (2013) using an aerodyne high-resolution aerosol mass spectrometer.	14
188	Observations of gas- and aerosol-phase organic nitrates at BEACHON-RoMBAS 2011.	8
187	Air quality and radiative forcing impacts of anthropogenic volatile organic compound emissions from ten world regions.	2
186	Secondary organic aerosol formation exceeds primary particulate matter emissions for light-duty gasoline vehicles.	9
185	Factors that influence surface PM <sub>2.5</sub> values inferred from satellite observations: perspective gained for the Baltimore-Washington Area during DISCOVER-AQ.	2
184	Secondary organic aerosol production from diesel vehicle exhaust: impact of aftertreatment, fuel chemistry and driving cycle.	5
183	Modeling the influence of precursor volatility and molecular structure on secondary organic aerosol formation using evaporated fuel experiments.	1
182	Emission factor ratios, SOA mass yields, and the impact of vehicular emissions on SOA formation.	1
181	VOC emissions, evolutions and contributions to SOA formation at a receptor site in Eastern China.	9
180	Aerosol loading in the Southeastern United States: reconciling surface and satellite observations.	3
179	Laboratory studies of the aqueous-phase oxidation of polyols: submicron particles vs. bulk aqueous solution.	1
178	Chemical composition and mass size distribution of PM <sub>1.0</sub> at an elevated site in central east China.	4
177	Multiday production of condensing organic aerosol mass in urban and forest outflow.	1

176	Ultraviolet and visible complex refractive indices of secondary organic material produced by photooxidation of the aromatic compounds toluene and <i>m</i> -Xylene.	2
175	Connecting the solubility and CCN activation of complex organic aerosols: a theoretical study using the Solubility Basis Set (SBS).	1
174	Aging of secondary organic aerosol from small aromatic VOCs: changes in chemical composition, mass yield, volatility and hygroscopicity.	8
173	Modeling the formation and aging of secondary organic aerosols in Los Angeles during CalNex 2010.	3
172	Volatile and intermediate-volatility organic compounds in sub-urban Paris: variability, origin and importance for SOA formation.	3
171	The AeroCom evaluation and intercomparison of organic aerosol in global models.	11
170	Modeling regional aerosol variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns.	1
169	Modelled and observed changes in aerosols and surface solar radiation over Europe between 1960 and 2009.	3
168	Real-time measurements of secondary organic aerosol formation and aging from ambient air in an oxidation flow reactor in the Los Angeles area.	10
167	Simulating secondary organic aerosol in a regional air quality model using the statistical oxidation model [Part 2: Assessing the influence of vapor wall losses.	3
166	In situ secondary organic aerosol formation from ambient pine forest air using an oxidation flow reactor.	4
165	Phase partitioning and volatility of secondary organic aerosol components formed from $\alpha$ -pinene ozonolysis and OH oxidation: the importance of accretion products and other low volatility compounds.	6
164	In-situ, satellite measurement and model evidence for a dominant regional contribution to fine particulate matter levels in the Paris Megacity.	4
163	The T1-T2 study: evolution of aerosol properties downwind of Mexico City.	1
162	Evolving mass spectra of the oxidized component of organic aerosol: results from aerosol mass spectrometer analyses of aged diesel emissions.	5
161	The SOA/VOC/NO <sub>x</sub> system: an explicit model of secondary organic aerosol formation.	1
160	The time evolution of aerosol composition over the Mexico City plateau.	4
159	Particulate polycyclic aromatic hydrocarbon spatial variability and aging in Mexico City.	1

158	Total Observed Organic Carbon (TOOC): A synthesis of North American observations.	1
157	Fast airborne aerosol size and chemistry measurements with the high resolution aerosol mass spectrometer during the MILAGRO Campaign.	9
156	Air quality in North America's most populous city   Overview of MCMA-2003 Campaign.	7
155	Secondary organic aerosol formation from $\alpha$ -pinene, toluene, and benzene.	13
154	Oxidative capacity of the Mexico City atmosphere   Part 1: A radical source perspective.	35
153	Development of a secondary organic aerosol formation mechanism: comparison with smog chamber experiments and atmospheric measurements.	2
152	Introducing the concept of Potential Aerosol Mass (PAM).	6
151	Estimation of the mass absorption cross section of the organic carbon component of aerosols in the Mexico City Metropolitan Area (MCMA).	3
150	Sensitivity of aerosol concentrations and cloud properties to nucleation and secondary organic distribution in ECHAM5-HAM global circulation model.	2
149	Secondary organic aerosol formation from acetylene ( $C_2H_2$ ): seed effect on SOA yields due to organic photochemistry in the aerosol aqueous phase.	11
148	Loading-dependent elemental composition of $\alpha$ -pinene SOA particles.	6
147	The influence of natural and anthropogenic secondary sources on the glyoxal global distribution.	7
146	Primary and secondary contributions to aerosol light scattering and absorption in Mexico City during the MILAGRO 2006 campaign.	4
145	Laboratory investigation of photochemical oxidation of organic aerosol from wood fires   Part 2: Analysis of aerosol mass spectrometer data.	6
144	Glyoxal uptake on ammonium sulphate seed aerosol: reaction products and reversibility of uptake under dark and irradiated conditions.	7
143	Emission and chemistry of organic carbon in the gas and aerosol phase at a sub-urban site near Mexico City in March 2006 during the MILAGRO study.	1
142	Single particle characterization using a light scattering module coupled to a time-of-flight aerosol mass spectrometer.	2
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