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**Protocol for the development of the Master Chemical Mechanism, MCM v3 (Part A): tropospheric degradation of non-aromatic volatile organic compounds**

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586	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 2103-2162	6.8	206
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537	Field measurements of methylglyoxal using proton transfer reaction time-of-flight mass spectrometry and comparison to the DNPH-PLC-DV method. <b>2018</b> , 11, 5729-5740		8
536	Adjoint inversion of Chinese non-methane volatile organic compound emissions using space-based observations of formaldehyde and glyoxal. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 15017-15046	6.8	29
535	Atmospheric oxidation in the presence of clouds during the Deep Convective Clouds and Chemistry (DC3) study. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 14493-14510	6.8	8
534	PAN-Precursor Relationship and Process Analysis of PAN Variations in the Pearl River Delta Region. <b>2018</b> , 9, 372		8
533	Evaluation of OH and HO <sub>2</sub> concentrations and their budgets during photo-oxidation of 2-methyl-3-butene-2-ol (MBO) in the atmospheric simulation chamber SAPHIR. <b>2018</b> ,		
532	Synthesis and characterization of peroxydicarboxylic acids as proxies for highly oxygenated molecules (HOMs) in secondary organic aerosol. <b>2018</b> ,		
531	A comprehensive organic nitrate chemistry: insights into the lifetime of atmospheric organic nitrates. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 15419-15436	6.8	31
530	Estimation of rate coefficients and branching ratios for gas-phase reactions of OH with aromatic organic compounds for use in automated mechanism construction. <b>2018</b> ,		
529	Low-level summertime isoprene observed at a forested mountaintop site in southern China: implications for strong regional atmospheric oxidative capacity. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 14417-14432	6.8	21
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527	Quantification of peroxydicarboxylic acid and peroxyacyl nitrates using an ethane-based thermal dissociation peroxy radical chemical amplification cavity ring-down spectrometer. <b>2018</b> , 11, 4109-4127		2
526	Calculated Hydrogen Shift Rate Constants in Substituted Alkyl Peroxy Radicals. <b>2018</b> , 122, 8665-8673		37
525	Measurements of a potential interference with laser-induced fluorescence measurements of ambient OH from the ozonolysis of biogenic alkenes. <b>2018</b> , 11, 1-16		26
524	NDACC harmonized formaldehyde time series from 21 FTIR stations covering a wide range of column abundances. <b>2018</b> , 11, 5049-5073		20
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521	A comprehensive organic nitrate chemistry: insights into the lifetime of atmospheric organic nitrates. <b>2018</b> ,		
520	Functional Group Composition of Secondary Organic Aerosol Formed from Ozonolysis of Pinene Under High VOC and Autoxidation Conditions. <b>2018</b> , 2, 1196-1210		34

519	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
518	Nitrate formation from heterogeneous uptake of dinitrogen pentoxide during a severe winter haze in southern China. <b>2018</b> ,		1
517	Biogenic emissions and land-atmosphere interactions as drivers of the diurnal evolution of secondary organic aerosol in the southeastern US. <b>2018</b> ,		
516	Estimation of rate coefficients and branching ratios for gas-phase reactions of OH with aromatic organic compounds for use in automated mechanism construction. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 9329-9349	6.8	16
515	Changes in Global Tropospheric OH Expected as a Result of Climate Change Over the Last Several Decades. <b>2018</b> , 123, 10,774		17
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513	Simulating secondary organic aerosol from anthropogenic and biogenic precursors: comparison to outdoor chamber experiments, effect of oligomerization on SOA formation and reactive uptake of aldehydes. <b>2018</b> ,		
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507	Synergistic O + OH oxidation pathway to extremely low-volatility dimers revealed in $\alpha$ -pinene secondary organic aerosol. <b>2018</b> , 115, 8301-8306		22
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502	The effect of structure and isomerism on the vapor pressures of organic molecules and its potential atmospheric relevance. <b>2019</b> , 53, 1040-1055		7



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499	Estimation of rate coefficients and branching ratios for reactions of organic peroxy radicals for use in automated mechanism construction. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 7691-7717	6.8	40
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445	Highly Oxygenated Organic Molecules (HOM) from Gas-Phase Autoxidation Involving Peroxy Radicals: A Key Contributor to Atmospheric Aerosol. <b>2019</b> , 119, 3472-3509		262
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386	An instrument for in situ measurement of total ozone reactivity. <b>2020</b> , 13, 1655-1670		2
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380	What the COVID-19 lockdown revealed about photochemistry and ozone production in Quito, Ecuador. <b>2021</b> , 12, 124-133		20
379	Photochemistry of ozone pollution in autumn in Pearl River Estuary, South China. <b>2021</b> , 754, 141812		4
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377	Kinetic and mechanistic study of the gas-phase reaction of ozone with $\beta$ -terpinene. <b>2021</b> , 246, 118073		1
376	Long-term variations of C-C alkyl nitrates and their sources in Hong Kong. <b>2021</b> , 270, 116285		0

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371	A Graph Theoretical Intercomparison of Atmospheric Chemical Mechanisms. <b>2021</b> , 48, e2020GL090481		1
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369	Evaluating the sensitivity of radical chemistry and ozone formation to ambient VOCs and NO <sub>x</sub> in Beijing. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 2125-2147	6.8	22
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367	A zero-dimensional view of atmospheric degradation of levoglucosan (LEVCHEM_v1) using numerical chamber simulations. <b>2021</b> , 14, 907-921		1
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289	Glyoxal vertical columns from GOME-2 backscattered light measurements and comparisons with a global model.		2
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283	Isoprene oxidation mechanisms: measurements and modelling of OH and HO <sub>2</sub> over a South-East Asian tropical rainforest during the OP3 field campaign.	2
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280	Forest-atmosphere exchange of ozone: sensitivity to very reactive biogenic VOC emissions and implications for in-canopy photochemistry.	2
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278	Formation of 3-methyl-1,2,3-butanetricarboxylic acid via gas phase oxidation of pinonic acid <sup>1b</sup> mass spectrometric study of SOA aging.	10
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273	Model uncertainties affecting satellite-based inverse modeling of nitrogen oxides emissions and implications for surface ozone simulation.	4
272	Radical budget analysis in a suburban European site during the MEGAPOLI summer field campaign.	4
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269	Understanding the impact of recent advances in isoprene photooxidation on simulations of regional air quality.	5
268	Oxidation of SO <sub>2</sub> by stabilized Criegee Intermediate (sCI) radicals as a crucial source for atmospheric sulphuric acid concentrations.	5

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263	Gas phase formation of extremely oxidized pinene reaction products in chamber and ambient air.	3
262	Pinene photooxidation under controlled chemical conditions [Part 1: Gas-phase composition in low- and high-NO <sub>x</sub> environments.	2
261	Isoprene emissions in Africa inferred from OMI observations of formaldehyde columns.	3
260	Eddy covariance fluxes and vertical concentration gradient measurements of NO <sub>2</sub> over a ponderosa pine ecosystem: observational evidence for within canopy removal of NO <sub>x</sub> .	5
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253	Study of the unknown HONO daytime source at an European suburban site during the MEGAPOLI summer and winter field campaigns.	2
252	Modeling the influence of precursor volatility and molecular structure on secondary organic aerosol formation using evaporated fuel experiments.	1
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250	An MCM modeling study of nitryl chloride (ClNO <sub>2</sub> ) impacts on oxidation, ozone production and nitrogen oxide partitioning in polluted continental outflow.	3

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248	Quantifying the impact of Boreal forest fires on Tropospheric oxidants over the Atlantic using Aircraft and Satellites (BORTAS) experiment: design, execution and science overview.	8
247	VOC emissions, evolutions and contributions to SOA formation at a receptor site in Eastern China.	9
246	Ozone photochemistry in an oil and natural gas extraction region during winter: simulations of a snow-free season in the Uintah Basin, Utah.	6
245	Key chemical NO <sub>x</sub> sink uncertainties and how they influence top-down emissions of nitrogen oxides.	6
244	Radical chemistry at night: comparisons between observed and modelled HO <sub>x</sub> , NO <sub>3</sub> and N <sub>2</sub> O <sub>5</sub> during the RONOCO project.	3
243	Relating hygroscopicity and optical properties to chemical composition and structure of secondary organic aerosol particles generated from the ozonolysis of Pinene.	4
242	Missing SO <sub>2</sub> oxidant in the coastal atmosphere? Evidence from high resolution measurements of OH and atmospheric sulfur compounds.	4
241	Measurements of OH and RO <sub>2</sub> radicals at Dome C, East Antarctica.	2
240	Ground-level ozone in four Chinese cities: precursors, regional transport and heterogeneous processes.	1
239	Impact of pollution controls in Beijing on atmospheric oxygenated volatile organic compounds (OVOCs) during the 2008 Olympic Games: observation and modeling implications.	1
238	Uptake of HO <sub>2</sub> radicals onto Arizona Test Dust aerosols.	1
237	OH regeneration from methacrolein oxidation investigated in the atmosphere simulation chamber SAPHIR.	1
236	How consistent are top-down hydrocarbon emissions based on formaldehyde observations from GOME-2 and OMI?	4
235	Organic nitrate aerosol formation via NO <sub>3</sub> + BVOC in the Southeastern US.	5
234	Source analysis of peroxyacetyl nitrate (PAN) in Guangzhou, China: a yearlong observation study.	2
233	Observation of isoprene hydroxynitrates in the Southeastern United States and implications for the fate of NO <sub>3</sub> .	1
232	Secondary Organic Aerosol (SOA) formation from the Pinene + NO <sub>3</sub> system: effect of humidity and peroxy radical fate.	6

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230	Nighttime measurements of HO <sub>x</sub> during the RONOCO project and analysis of the sources of HO <sub>2</sub> .	1
229	In situ measurements and modeling of reactive trace gases in a small biomass burning plume.	1
228	Simulating the SOA formation of isoprene from partitioning and aerosol phase reactions in the presence of inorganics.	3
227	Observations and implications of liquid-liquid phase separation at high relative humidities in secondary organic material produced by $\alpha$ -pinene ozonolysis without inorganic salts.	2
226	Technical Note: Development of chemoinformatic tools to enumerate functional groups in molecules for organic aerosol characterization.	1
225	Modeling lightning-NO <sub>x</sub> chemistry at sub-grid scale in a global chemical transport model.	1
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223	Atmospheric isoprene ozonolysis: impacts of stabilized Criegee intermediate reactions with SO <sub>2</sub> , H <sub>2</sub> O and dimethyl sulfide.	1
222	Contribution from biogenic organic compounds to particle growth during the 2010 BEACHON-ROCS campaign in a Colorado temperate needle leaf forest.	2
221	Diesel-related hydrocarbons can dominate gas phase reactive carbon in megacities.	2
220	The MCM v3.3 degradation scheme for isoprene.	17
219	The SOA/VOC/NO <sub>x</sub> system: an explicit model of secondary organic aerosol formation.	1
218	Long-term tropospheric formaldehyde concentrations deduced from ground-based fourier transform solar infrared measurements.	4
217	GEM-AQ, an on-line global multiscale chemical weather system: model description and evaluation of gas phase chemistry processes.	4
216	Oxidative capacity of the Mexico City atmosphere [Part 1: A radical source perspective.	35
215	Evaluation of nitrogen dioxide chemiluminescence monitors in a polluted urban environment.	8
214	Isoprene and monoterpene fluxes from Central Amazonian rainforest inferred from tower-based and airborne measurements, and implications on the atmospheric chemistry and the local carbon budget.	3



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211	Mainz Isoprene Mechanism 2 (MIM2): an isoprene oxidation mechanism for regional and global atmospheric modelling.	5
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209	Isoprene photooxidation mechanism: resonance channels and implications for the production of nitrates and acids.	6
208	Loading-dependent elemental composition of pinene SOA particles.	6
207	Ozone production, nitrogen oxides, and radical budgets in Mexico City: observations from Pico de Tres Padres.	2
206	Radicals in the marine boundary layer during NEAQS 2004: a model study of day-time and night-time sources and sinks.	4
205	The influence of natural and anthropogenic secondary sources on the glyoxal global distribution.	7
204	Evaluating the performance of pyrogenic and biogenic emission inventories against one decade of space-based formaldehyde columns.	5
203	Oxidation capacity of the city air of Santiago, Chile.	3
202	Oxidative capacity of the Mexico City atmosphere [Part 2: A RO <sub>x</sub> radical cycling perspective.	18
201	Improved simulation of isoprene oxidation chemistry with the ECHAM5/MESSy chemistry-climate model: lessons from the GABRIEL airborne field campaign.	5
200	Twelve years of global observation of formaldehyde in the troposphere using GOME and SCIAMACHY sensors.	5
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198	Ground-based FTIR and MAX-DOAS observations of formaldehyde at R�union Island and comparisons with satellite and model data.	1
197	The chemistry of OH and HO <sub>2</sub> radicals in the boundary layer over the tropical Atlantic Ocean.	6
196	Measurements of OH and HO <sub>2</sub> yields from the gas phase ozonolysis of isoprene.	3

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194	Simulating atmospheric composition over a South-East Asian tropical rainforest: Performance of a chemistry box model.	1
193	C<sub>3</sub>-C<sub>5</sub> alkanes in the atmosphere: concentration, seasonal cycle and contribution to the atmospheric budgets of acetone and acetaldehyde.	1
192	Measurements of iodine monoxide at a semi polluted coastal location.	4
191	Can a global model chemical mechanism reproduce NO, NO<sub>2</sub>, and O<sub>3</sub> measurements above a tropical rainforest?.	7
190	Distribution of gaseous and particulate organic composition during dark Pinene ozonolysis.	1
189	The formation, properties and impact of secondary organic aerosol: current and emerging issues.	24
188	A consistent molecular hydrogen isotope chemistry scheme based on an independent bond approximation.	2
187	Isoprene oxidation by nitrate radical: alkyl nitrate and secondary organic aerosol yields.	5
186	Analysis of functional groups in atmospheric aerosols by infrared spectroscopy: method development for probabilistic modeling of organic carbon and organic matter concentrations. <b>2020</b> , 13, 1517-1538	5
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