

A Hodzic

List of Publications by Year in descending order

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60
papers

6,445
citations

76294

40
h-index

128225

60
g-index

86
all docs

86
docs citations

86
times ranked

5815
citing authors

#	ARTICLE	IF	CITATIONS
1	CHIMERE 2013: a model for regional atmospheric composition modelling. <i>Geoscientific Model Development</i> , 2013, 6, 981-1028.	1.3	392
2	The AeroCom evaluation and intercomparison of organic aerosol in global models. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10845-10895.	1.9	363
3	Modeling organic aerosols in a megacity: potential contribution of semi-volatile and intermediate volatility primary organic compounds to secondary organic aerosol formation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5491-5514.	1.9	340
4	Aerosol modeling with CHIMERE – preliminary evaluation at the continental scale. <i>Atmospheric Environment</i> , 2004, 38, 2803-2817.	1.9	315
5	Nitrate radicals and biogenic volatile organic compounds: oxidation, mechanisms, and organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2103-2162.	1.9	307
6	The Whole Atmosphere Community Climate Model Version 6 (WACCM6). <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12380-12403.	1.2	261
7	A model inter-comparison study focussing on episodes with elevated PM10 concentrations. <i>Atmospheric Environment</i> , 2008, 42, 4567-4588.	1.9	242
8	SIRTA, a ground-based atmospheric observatory for cloud and aerosol research. <i>Annales Geophysicae</i> , 2005, 23, 253-275.	0.6	240
9	Modeling organic aerosols in a megacity: comparison of simple and complex representations of the volatility basis set approach. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6639-6662.	1.9	230
10	Rethinking the global secondary organic aerosol (SOA) budget: stronger production, faster removal, shorter lifetime. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 7917-7941.	1.9	216
11	Wildfire particulate matter in Europe during summer 2003: meso-scale modeling of smoke emissions, transport and radiative effects. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4043-4064.	1.9	198
12	CityDelta: A model intercomparison study to explore the impact of emission reductions in European cities in 2010. <i>Atmospheric Environment</i> , 2007, 41, 189-207.	1.9	189
13	Evaluation of operational on-line-coupled regional air quality models over Europe and North America in the context of AQMEII phase 2. Part I: Ozone. <i>Atmospheric Environment</i> , 2015, 115, 404-420.	1.9	168
14	Simulation of semi-explicit mechanisms of SOA formation from glyoxal in aerosol in a 3-D model. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6213-6239.	1.9	166
15	Regional modeling of carbonaceous aerosols over Europe – focus on secondary organic aerosols. <i>Journal of Atmospheric Chemistry</i> , 2008, 61, 175-202.	1.4	157
16	Observations of gas- and aerosol-phase organic nitrates at BEACHON-RoMBAS 2011. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8585-8605.	1.9	150
17	Evaluating simulated primary anthropogenic and biomass burning organic aerosols during MILAGRO: implications for assessing treatments of secondary organic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6191-6215.	1.9	138
18	Evaluation of operational online-coupled regional air quality models over Europe and North America in the context of AQMEII phase 2. Part II: Particulate matter. <i>Atmospheric Environment</i> , 2015, 115, 421-441.	1.9	133

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19	The effect of dry and wet deposition of condensable vapors on secondary organic aerosols concentrations over the continental US. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 1-18.	1.9	132
20	Modeling organic aerosols during MILAGRO: importance of biogenic secondary organic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 6949-6981.	1.9	119
21	Modeling anthropogenically controlled secondary organic aerosols in a megacity: a simplified framework for global and climate models. <i>Geoscientific Model Development</i> , 2011, 4, 901-917.	1.3	119
22	Emissions of volatile organic compounds inferred from airborne flux measurements over a megacity. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 271-285.	1.9	118
23	Formation of organic aerosol in the Paris region during the MEGAPOLI summer campaign: evaluation of the volatility-basis-set approach within the CHIMERE model. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5767-5790.	1.9	105
24	Semicontinuous measurements of gas-particle partitioning of organic acids in a ponderosa pine forest using a MOVI-HRToF-CIMS. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1527-1546.	1.9	89
25	Impact of chamber wall loss of gaseous organic compounds on secondary organic aerosol formation: explicit modeling of SOA formation from alkane and alkene oxidation. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1417-1431.	1.9	87
26	Climate Forcing and Trends of Organic Aerosols in the Community Earth System Model (CESM2). <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 4323-4351.	1.3	87
27	Comparative analysis of meteorological performance of coupled chemistry-meteorology models in the context of AQMEII phase 2. <i>Atmospheric Environment</i> , 2015, 115, 470-498.	1.9	85
28	Can 3-D models explain the observed fractions of fossil and non-fossil carbon in and near Mexico City?. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 10997-11016.	1.9	80
29	Organic photolysis reactions in tropospheric aerosols: effect on secondary organic aerosol formation and lifetime. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9253-9269.	1.9	74
30	Volatility dependence of Henry's law constants of condensable organics: Application to estimate depositional loss of secondary organic aerosols. <i>Geophysical Research Letters</i> , 2014, 41, 4795-4804.	1.5	67
31	Explicit modeling of organic chemistry and secondary organic aerosol partitioning for Mexico City and its outflow plume. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13219-13241.	1.9	65
32	Evolution of aerosol optical thickness over Europe during the August 2003 heat wave as seen from CHIMERE model simulations and POLDER data. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 1853-1864.	1.9	63
33	Modeling regional aerosol and aerosol precursor variability over California and its sensitivity to emissions and long-range transport during the 2010 CalNex and CARES campaigns. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10013-10060.	1.9	62
34	Overview of the Manitou Experimental Forest Observatory: site description and selected science results from 2008 to 2013. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 6345-6367.	1.9	62
35	Long-term urban aerosol simulation versus routine particulate matter observations. <i>Atmospheric Environment</i> , 2005, 39, 5851-5864.	1.9	60
36	Assessment of the MACC reanalysis and its influence as chemical boundary conditions for regional air quality modeling in AQMEII-2. <i>Atmospheric Environment</i> , 2015, 115, 371-388.	1.9	59

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37	Origin of particulate matter pollution episodes in wintertime over the Paris Basin. <i>Atmospheric Environment</i> , 2005, 39, 6159-6174.	1.9	55
38	Air quality in Europe during the summer of 2003 as a prototype of air quality in a warmer climate. <i>Comptes Rendus - Geoscience</i> , 2007, 339, 747-763.	0.4	53
39	Impact of Trash Burning on Air Quality in Mexico City. <i>Environmental Science & Technology</i> , 2012, 46, 4950-4957.	4.6	51
40	A model evaluation of coarse-mode nitrate heterogeneous formation on dust particles. <i>Atmospheric Environment</i> , 2006, 40, 4158-4171.	1.9	50
41	Thunderstorms and upper troposphere chemistry during the early stages of the 2006 North American Monsoon. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 11003-11026.	1.9	48
42	Comparison of aerosol chemistry transport model simulations with lidar and Sun photometer observations at a site near Paris. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	40
43	A multi-model assessment for the 2006 and 2010 simulations under the Air Quality Model Evaluation International Initiative (AQMEII) phase 2 over North America: Part I. Indicators of the sensitivity of O ₃ and PM _{2.5} formation regimes. <i>Atmospheric Environment</i> , 2015, 115, 569-586.	1.9	36
44	Aerosol chemical and optical properties over the Paris area within ESQUIF project. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 3257-3280.	1.9	31
45	Impact of Biomass Burning Aerosols on the Diurnal Cycle of Convective Clouds and Precipitation Over a Tropical Island. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 1017-1036.	1.2	29
46	Multiday production of condensing organic aerosol mass in urban and forest outflow. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 595-615.	1.9	27
47	Modeling particle nucleation and growth over northern California during the 2010 CARES campaign. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12283-12313.	1.9	25
48	A multi-model assessment for the 2006 and 2010 simulations under the Air Quality Model Evaluation International Initiative (AQMEII) Phase 2 over North America: Part II. Evaluation of column variable predictions using satellite data. <i>Atmospheric Environment</i> , 2015, 115, 587-603.	1.9	25
49	Aerosol distribution over the western Mediterranean basin during a Tramontane/Mistral event. <i>Annales Geophysicae</i> , 2007, 25, 2271-2291.	0.6	24
50	Limited influence of dry deposition of semivolatile organic vapors on secondary organic aerosol formation in the urban plume. <i>Geophysical Research Letters</i> , 2013, 40, 3302-3307.	1.5	18
51	Limited effect of anthropogenic nitrogen oxides on secondary organic aerosol formation. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13487-13506.	1.9	17
52	Modeling ultrafine particle growth at a pine forest site influenced by anthropogenic pollution during BEACHON-RoMBAS 2011. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11011-11029.	1.9	12
53	CESM/CAM5 improvement and application: comparison and evaluation of updated CB05_GE and MOZART-4 gas-phase mechanisms and associated impacts on global air quality and climate. <i>Geoscientific Model Development</i> , 2015, 8, 3999-4025.	1.3	11
54	Improved modeling of cloudy sky actinic flux using satellite cloud retrievals. <i>Geophysical Research Letters</i> , 2017, 44, 1592-1600.	1.5	11

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55	Response of surface ozone over the continental United States to UV radiation declines from the expected recovery of stratospheric ozone. <i>Npj Climate and Atmospheric Science</i> , 2018, 1, .	2.6	11
56	Emissions and Partitioning of Intermediate-Volatility and Semi-Volatile Polar Organic Compounds (I/SV-POCs) During Laboratory Combustion of Boreal and Sub-Tropical Peat. <i>Aerosol Science and Engineering</i> , 2017, 1, 25-32.	1.1	10
57	Evaluation of Secondary Organic Aerosol (SOA) Simulations for Seoul, Korea. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	1.3	10
58	Toward a Better Regional Ozone Forecast Over CONUS Using Rapid Data Assimilation of Clouds and Meteorology in WRF+Chem. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 13576-13592.	1.2	6
59	A Novel Ensemble Design for Probabilistic Predictions of Fine Particulate Matter Over the Contiguous United States (CONUS). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032554.	1.2	2
60	Non-linear partitioning and organic volatility distributions of urban aerosols. <i>Faraday Discussions</i> , 2016, 189, 515-528.	1.6	1