

Theran P Riedel

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

2,486
citations

331670

21
h-index

552781

26
g-index

31
all docs

31
docs citations

31
times ranked

2513
citing authors

#	ARTICLE	IF	CITATIONS
1	A large atomic chlorine source inferred from mid-continental reactive nitrogen chemistry. <i>Nature</i> , 2010, 464, 271-274.	27.8	562
2	Reactive Uptake of an Isoprene-Derived Epoxydiol to Submicron Aerosol Particles. <i>Environmental Science & Technology</i> , 2014, 48, 11178-11186.	10.0	208
3	Chlorine activation by N_2O_5 : simultaneous, in situ detection of ClNO_2 and N_2O_5 by chemical ionization mass spectrometry. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 193-204.	3.1	193
4	Nitryl Chloride and Molecular Chlorine in the Coastal Marine Boundary Layer. <i>Environmental Science & Technology</i> , 2012, 46, 10463-10470.	10.0	177
5	Molecular Composition and Volatility of Organic Aerosol in the Southeastern U.S.: Implications for IEPOX Derived SOA. <i>Environmental Science & Technology</i> , 2016, 50, 2200-2209.	10.0	141
6	Direct observations of N_2O_5 reactivity on ambient aerosol particles. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	124
7	Spectral and thermodynamic properties of Ag(I), Au(III), Cd(II), Co(II), Fe(III), Hg(II), Mn(II), Ni(II), Pb(II), U(IV), and Zn(II) binding by methanobactin from <i>Methylosinus trichosporium</i> OB3b. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 2150-2161.	3.5	106
8	Chlorine activation within urban or power plant plumes: Vertically resolved ClNO_2 and Cl_2 measurements from a tall tower in a polluted continental setting. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8702-8715.	3.3	94
9	Heterogeneous Reactions of Isoprene-Derived Epoxides: Reaction Probabilities and Molar Secondary Organic Aerosol Yield Estimates. <i>Environmental Science and Technology Letters</i> , 2015, 2, 38-42.	8.7	89
10	N_2O_5 uptake coefficients and nocturnal NO_2 removal rates determined from ambient wintertime measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9331-9350.	3.3	87
11	An MCM modeling study of nitryl chloride (ClNO_2) impacts on oxidation, ozone production and nitrogen oxide partitioning in polluted continental outflow. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3789-3800.	4.9	87
12	An Odd Oxygen Framework for Wintertime Ammonium Nitrate Aerosol Pollution in Urban Areas: NO_x and VOC Control as Mitigation Strategies. <i>Geophysical Research Letters</i> , 2019, 46, 4971-4979.	4.0	80
13	Nitrogen, Aerosol Composition, and Halogens on a Tall Tower (NACHTT): Overview of a wintertime air chemistry field study in the front range urban corridor of Colorado. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8067-8085.	3.3	68
14	The primary and recycling sources of OH during the NACHTT 2011 campaign: HONO as an important OH primary source in the wintertime. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 6886-6896.	3.3	66
15	Direct N_2O_5 reactivity measurements at a polluted coastal site. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2959-2968.	4.9	64
16	On the Role of Particle Inorganic Mixing State in the Reactive Uptake of N_2O_5 to Ambient Aerosol Particles. <i>Environmental Science & Technology</i> , 2014, 48, 1618-1627.	10.0	58
17	Phase partitioning of soluble trace gases with size-resolved aerosols in near-surface continental air over northern Colorado, USA, during winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9414-9427.	3.3	56
18	The sea breeze/land breeze circulation in Los Angeles and its influence on nitryl chloride production in this region. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	54

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19	Constraining condensed-phase formation kinetics of secondary organic aerosol components from isoprene epoxydiols. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1245-1254.	4.9	46
20	Chamber-based insights into the factors controlling epoxydiol (IEPOX) secondary organic aerosol (SOA) yield, composition, and volatility. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11253-11265.	4.9	38
21	Gas-Phase Detection of Fluorotelomer Alcohols and Other Oxygenated Per- and Polyfluoroalkyl Substances by Chemical Ionization Mass Spectrometry. <i>Environmental Science and Technology Letters</i> , 2019, 6, 289-293.	8.7	25
22	Mutagenic atmospheres resulting from the photooxidation of aromatic hydrocarbon and NO _x mixtures. <i>Atmospheric Environment</i> , 2018, 178, 164-172.	4.1	16
23	Low temperature thermal treatment of gas-phase fluorotelomer alcohols by calcium oxide. <i>Chemosphere</i> , 2021, 272, 129859.	8.2	15
24	Rapid production of highly oxidized molecules in isoprene aerosol via peroxy and alkoxy radical isomerization pathways in low and high NO _x environments: Combined laboratory, computational and field studies. <i>Science of the Total Environment</i> , 2021, 775, 145592.	8.0	11
25	Time series analysis of wintertime O ₃ and NO _x formation using vector autoregressions. <i>Atmospheric Environment</i> , 2019, 218, 116988.	4.1	9
26	Quantifying wintertime O ₃ and NO _x formation with relevance vector machines. <i>Atmospheric Environment</i> , 2021, 259, 118538.	4.1	5
27	Quantifying wintertime O and NO formation with relevance vector machines. <i>Atmospheric Environment</i> , 2021, 259, 1-118538.	4.1	0