

Mychel E Varner

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

902
citations

623188

14
h-index

794141

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g-index

20
all docs

20
docs citations

20
times ranked

1233
citing authors

#	ARTICLE	IF	CITATIONS
1	Simplified mechanism for new particle formation from methanesulfonic acid, amines, and water via experiments and ab initio calculations. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18719-18724.	3.3	173
2	Reactions of Methanesulfonic Acid with Amines and Ammonia as a Source of New Particles in Air. Journal of Physical Chemistry B, 2016, 120, 1526-1536.	1.2	115
3	Computational Studies of Atmospherically-Relevant Chemical Reactions in Water Clusters and on Liquid Water and Ice Surfaces. Accounts of Chemical Research, 2015, 48, 399-406.	7.6	89
4	New particle formation and growth from methanesulfonic acid, trimethylamine and water. Physical Chemistry Chemical Physics, 2015, 17, 13699-13709.	1.3	88
5	Photooxidation of Ammonia on TiO_2 as a Source of NO and NO_2 under Atmospheric Conditions. Journal of the American Chemical Society, 2013, 135, 8606-8615.	6.6	72
6	Propargyl Radical: Ab Initio Anharmonic Modes and the Polarized Infrared Absorption Spectra of Matrix-Isolated HCCCH_2 . Journal of Physical Chemistry A, 2005, 109, 3812-3821.	1.1	55
7	Dissociation Energy of the HOOO Radical. Journal of Physical Chemistry A, 2009, 113, 11238-11241.	1.1	46
8	Molecular dynamics simulations of human Formula: the role of modified bases in mRNA recognition. Nucleic Acids Research, 2006, 34, 5361-5368.	6.5	37
9	Ab initio and semi-empirical Molecular Dynamics simulations of chemical reactions in isolated molecules and in clusters. Physical Chemistry Chemical Physics, 2014, 16, 9760-9775.	1.3	35
10	A comparison of experimental and calculated spectra of HNO_3 in the near-infrared using Fourier transform infrared spectroscopy and vibrational perturbation theory. Journal of Chemical Physics, 2006, 124, 124323.	1.2	33
11	Nitrogen dioxide at the air-water interface: trapping, absorption, and solvation in the bulk and at the surface. Physical Chemistry Chemical Physics, 2013, 15, 204-212.	1.3	33
12	On the geometry of the HO_3 radical. Chemical Physics, 2008, 346, 53-55.	0.9	32
13	Amine-Amine Exchange in Ammonium-Methanesulfonate Aerosols. Journal of Physical Chemistry C, 2014, 118, 29431-29440.	1.5	31
14	Reaction of a charge-separated ONONO_2 species with water in the formation of HONO : an MP2 Molecular Dynamics study. Physical Chemistry Chemical Physics, 2014, 16, 4483.	1.3	31
15	Isomerization and ionization of N_2O_4 on model ice and silica surfaces. Chemical Physics, 2012, 405, 52-59.	0.9	13
16	Vibrational overtone spectrum of matrix isolated cis, cis- HOONO . Journal of Chemical Physics, 2007, 126, 174308.	1.2	10
17	Raman spectroscopy of solutions and interfaces containing nitrogen dioxide, water, and 1,4 dioxane: Evidence for repulsion of surface water by NO_2 gas. Journal of Chemical Physics, 2014, 140, 184702.	1.2	3
18	Concerted transfer of multiple protons in acid-water clusters: $[(\text{HCl})(\text{H}_2\text{O})_2]$ and $[(\text{HF})(\text{H}_2\text{O})_4]$. Physical Chemistry Chemical Physics, 2017, 19, 20641-20646.	1.3	3

#	ARTICLE	IF	CITATIONS
19	Oxidation mechanism of ammonia in water clusters. Molecular Physics, 0, , .	0.8	0