Solvejg JÃ¸rgensen

List of Publications by Year
in descending order

52	3,483	304743 22	189892 50
papers	citations	h-index	g-index

53	53	53	3204
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A large source of low-volatility secondary organic aerosol. Nature, 2014, 506, 476-479.	27.8	1,448
2	Autoxidation of Organic Compounds in the Atmosphere. Journal of Physical Chemistry Letters, 2013, 4, 3513-3520.	4.6	444
3	The Formation of Highly Oxidized Multifunctional Products in the Ozonolysis of Cyclohexene. Journal of the American Chemical Society, 2014, 136, 15596-15606.	13.7	236
4	Atmospheric Fate of Methacrolein. 1. Peroxy Radical Isomerization Following Addition of OH and O₂. Journal of Physical Chemistry A, 2012, 116, 5756-5762.	2.5	166
5	Kinetics and Products of the Reaction of the First-Generation Isoprene Hydroxy Hydroperoxide (ISOPOOH) with OH. Journal of Physical Chemistry A, 2016, 120, 1441-1451.	2.5	111
6	A Computational Study of the Oxidation of SO₂ to SO₃ by Gas-Phase Organic Oxidants. Journal of Physical Chemistry A, 2011, 115, 8669-8681.	2.5	93
7	Computational Study of Hydrogen Shifts and Ring-Opening Mechanisms in Î±-Pinene Ozonolysis Products. Journal of Physical Chemistry A, 2015, 119, 11366-11375.	2.5	89
8	Criegee Intermediates React with Ozone. Journal of Physical Chemistry Letters, 2013, 4, 2525-2529.	4.6	76
9	Rapid Hydrogen Shift Scrambling in Hydroperoxy-Substituted Organic Peroxy Radicals. Journal of Physical Chemistry A, 2016, 120, 266-275.	2.5	62
10	Atmospheric Fate of Methacrolein. 2. Formation of Lactone and Implications for Organic Aerosol Production. Journal of Physical Chemistry A, 2012, 116, 5763-5768.	2.5	58
11	Similar Strength of the NHÂ·Â·Â·O and NHÂ·Â·Â·S Hydrogen Bonds in Binary Complexes. Journal of Physical Chemistry A, 2014, 118, 11074-11082.	2.5	57
12	Effect of Hydration on the Hydrogen Abstraction Reaction by HO in DMS and its Oxidation Products. Journal of Physical Chemistry A, 2010, 114, 4857-4863.	2.5	56
13	Theoretical Investigation of the Reaction between Carbonyl Oxides and Ammonia. Journal of Physical Chemistry A, 2009, 113, 10284-10290.	2.5	47
14	The rotational temperature of polar molecular ions in Coulomb crystals. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, L83-L89.	1.5	42
15	Ambient reaction kinetics of atmospheric oxygenated organics with the OH radical: a computational methodology study. Physical Chemistry Chemical Physics, 2013, 15, 9636.	2.8	36
16	Heterogeneous solvation: An ab initio approach. Journal of Chemical Physics, 2001, 115, 3792-3803.	3.0	35
17	Atmospheric Chemistry of Two Biodiesel Model Compounds: Methyl Propionate and Ethyl Acetate. Journal of Physical Chemistry A, 2011, 115, 8906-8919.	2.5	35
18	On the possible catalysis by single water molecules of gas-phase hydrogen abstraction reactions by OH radicals. Physical Chemistry Chemical Physics, 2012, 14, 12992.	2.8	32

#	Article	IF	Citations
19	Rapid Hydrogen Shift Reactions in Acyl Peroxy Radicals. Journal of Physical Chemistry A, 2017, 121, 1470-1479.	2.5	28
20	Atmospheric Chemistry of Ethyl Propionate. Journal of Physical Chemistry A, 2012, 116, 5164-5179.	2.5	27
21	Theoretical study of the gas phase reaction of methyl acetate with the hydroxyl radical: Structures, mechanisms, rates and temperature dependencies. Chemical Physics Letters, 2010, 490, 116-122.	2.6	26
22	The gas-phase reaction of methane sulfonic acid with the hydroxyl radical without and with water vapor. Physical Chemistry Chemical Physics, 2013, 15, 5140.	2.8	26
23	Unimolecular HO₂ Loss from Peroxy Radicals Formed in Autoxidation Is Unlikely under Atmospheric Conditions. Journal of Physical Chemistry A, 2016, 120, 3588-3595.	2.5	21
24	Theoretical investigation of the hydrogen shift reactions in peroxy radicals derived from the atmospheric decomposition of 3-methyl-3-buten-1-ol (MBO331). Chemical Physics Letters, 2015, 619, 236-240.	2.6	19
25	Intensity and wavelength control of a single molecule reaction: Simulation of photodissociation of cold-trapped MgH+. Journal of Chemical Physics, 2005, 123, 094302.	3.0	18
26	Photo-dissociation of Cold MgH $mathsf{^ + }$ ions. European Physical Journal D, 2004, 31, 403-408.	1.3	17
27	Methyl chavicol reactions with ozone, OH and NO3 radicals: Rate constants and gas-phase products. Atmospheric Environment, 2013, 77, 696-702.	4.1	16
28	Hydrogen shift reactions in four methyl-buten-ol (MBO) peroxy radicals and their impact on the atmosphere. Atmospheric Environment, 2016, 147, 79-87.	4.1	15
29	A theoretical study of the kinetics of OH radical addition to halogen substituted propenes. Chemical Physics Letters, 2009, 481, 29-33.	2.6	14
30	Nonlinear optical response of molecule in inhomogeneous solvation environment: A response theory formalism. Journal of Chemical Physics, 2001, 115, 8185-8192.	3.0	13
31	Cubic nonlinear optical response of a molecule in an inhomogeneous solvation environment: A response theory formalism. Journal of Chemical Physics, 2002, 116, 10902-10908.	3.0	11
32	Theoretical investigation of reactions between ammonia and precursors from the ozonolysis of ethene. Chemical Physics, 2009, 362, 8-15.	1.9	11
33	A theoretical investigation of gas phase NO3 initiated nitration of p-cresol. Chemical Physics, 2011, 389, 39-46.	1.9	11
34	Isotope Effects in Photodissociation: Chemical Reaction Dynamics and Implications for Atmospheres. Advances in Quantum Chemistry, 2008, 55, 101-135.	0.8	10
35	Methyl acetate reaction with OH and Cl: Reaction rates and products for a biodiesel analogue. Chemical Physics Letters, 2009, 472, 23-29.	2.6	9
36	Gasâ€phase oxidation of cresol isomers initiated by OH or NO₃ radicals in the presence of NO₂. International Journal of Chemical Kinetics, 2012, 44, 165-178.	1.6	9

#	Article	IF	Citations
37	Nitrate radical additionâ€“elimination reactions of atmospherically relevant sulfur-containing molecules. Physical Chemistry Chemical Physics, 2010, 12, 12833.	2.8	8
38	Investigation of Particleâˆ'Molecule Interactions by Use of a Dielectric Continuum Model. Journal of Physical Chemistry A, 2003, 107, 8623-8629.	2.5	7
39	Theoretical Modeling of Steric Effect in Electron-Induced Desorption:â€‰ CH3Br/O/Ru(001). Journal of Physical Chemistry B, 2004, 108, 14056-14061.	2.6	7
40	Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand mÄnuka honey: Part V â€“ The rate determining step. Food Chemistry, 2019, 276, 636-642.	8.2	6
41	Time-resolved two-photon photoemission spectroscopy of image potential states: A phenomenological approach. Journal of Chemical Physics, 2001, 115, 4314-4321.	3.0	5
42	Electronic states of Cu(111)/C6H6. A dielectric continuum approach and a heterogeneous solvation model. Chemical Physics, 2002, 278, 53-68.	1.9	4
43	Two-pulse atomic coherent control. Surface Science, 2003, 528, 156-162.	1.9	4
44	Two-pulse atomic coherent control spectroscopy of Eleyâ€“Rideal reactions: An application of an atom laser. Journal of Chemical Physics, 2003, 119, 149-160.	3.0	4
45	Benchmarking sampling methodology for calculations of Rayleigh light scattering properties of atmospheric molecular clusters. Physical Chemistry Chemical Physics, 2019, 21, 17274-17287.	2.8	4
46	Pulse-shaping algorithm of a coherent matter-wave-controlling reaction dynamics. Physical Review A, 2004, 70, .	2.5	3
47	On adduct formation and reactivity in the OCS + OH reaction: A combined theoretical and experimental study. Chemical Physics Letters, 2017, 675, 111-117.	2.6	2
48	Bypassing the multireference character of singlet molecular oxygen, part 1:1,4â€cycloâ€addition. International Journal of Quantum Chemistry, 2021, 121, e26523.	2.0	2
49	Theoretical Investigation of the NO3 Initiated Reaction of VOCs. NATO Science for Peace and Security Series C: Environmental Security, 2013, , 163-171.	0.2	1
50	Proton transfer reactions in solution. International Journal of Quantum Chemistry, 2000, 77, 221-239.	2.0	0
51	D. Manipulation of Molecules. , 2005, , 475-493.		0
52	Theoretical Determinations Of Reaction Parameters For Atmospheric Chemical Reactions. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 31-45.	0.2	0