

Solvejg JÃ,rgensen

List of Publications by Year in descending order

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52
papers

3,483
citations

304743

22
h-index

189892

50
g-index

53
all docs

53
docs citations

53
times ranked

3204
citing authors

#	ARTICLE	IF	CITATIONS
1	Bypassing the multireference character of singlet molecular oxygen, part 1:1,4-cycloaddition. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26523.	2.0	2
2	Benchmarking sampling methodology for calculations of Rayleigh light scattering properties of atmospheric molecular clusters. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17274-17287.	2.8	4
3	Kinetics of conversion of dihydroxyacetone to methylglyoxal in New Zealand mānuka honey: Part V – The rate determining step. <i>Food Chemistry</i> , 2019, 276, 636-642.	8.2	6
4	Rapid Hydrogen Shift Reactions in Acyl Peroxy Radicals. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1470-1479.	2.5	28
5	On adduct formation and reactivity in the OCS + OH reaction: A combined theoretical and experimental study. <i>Chemical Physics Letters</i> , 2017, 675, 111-117.	2.6	2
6	Unimolecular HO ₂ Loss from Peroxy Radicals Formed in Autoxidation Is Unlikely under Atmospheric Conditions. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3588-3595.	2.5	21
7	Hydrogen shift reactions in four methyl-buten-ol (MBO) peroxy radicals and their impact on the atmosphere. <i>Atmospheric Environment</i> , 2016, 147, 79-87.	4.1	15
8	Rapid Hydrogen Shift Scrambling in Hydroperoxy-Substituted Organic Peroxy Radicals. <i>Journal of Physical Chemistry A</i> , 2016, 120, 266-275.	2.5	62
9	Kinetics and Products of the Reaction of the First-Generation Isoprene Hydroxy Hydroperoxide (ISOPOOH) with OH. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1441-1451.	2.5	111
10	Computational Study of Hydrogen Shifts and Ring-Opening Mechanisms in \pm -Pinene Ozonolysis Products. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11366-11375.	2.5	89
11	Theoretical investigation of the hydrogen shift reactions in peroxy radicals derived from the atmospheric decomposition of 3-methyl-3-buten-1-ol (MBO331). <i>Chemical Physics Letters</i> , 2015, 619, 236-240.	2.6	19
12	Similar Strength of the NH \cdots O and NH \cdots S Hydrogen Bonds in Binary Complexes. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11074-11082.	2.5	57
13	The Formation of Highly Oxidized Multifunctional Products in the Ozonolysis of Cyclohexene. <i>Journal of the American Chemical Society</i> , 2014, 136, 15596-15606.	13.7	236
14	A large source of low-volatility secondary organic aerosol. <i>Nature</i> , 2014, 506, 476-479.	27.8	1,448
15	Criegee Intermediates React with Ozone. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2525-2529.	4.6	76
16	Autoxidation of Organic Compounds in the Atmosphere. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3513-3520.	4.6	444
17	Methyl chavicol reactions with ozone, OH and NO ₃ radicals: Rate constants and gas-phase products. <i>Atmospheric Environment</i> , 2013, 77, 696-702.	4.1	16
18	The gas-phase reaction of methane sulfonic acid with the hydroxyl radical without and with water vapor. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5140.	2.8	26

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19	Ambient reaction kinetics of atmospheric oxygenated organics with the OH radical: a computational methodology study. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9636.	2.8	36
20	Theoretical Investigation of the NO ₃ Initiated Reaction of VOCs. NATO Science for Peace and Security Series C: Environmental Security, 2013, , 163-171.	0.2	1
21	Atmospheric Chemistry of Ethyl Propionate. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5164-5179.	2.5	27
22	Atmospheric Fate of Methacrolein. 2. Formation of Lactone and Implications for Organic Aerosol Production. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5763-5768.	2.5	58
23	Atmospheric Fate of Methacrolein. 1. Peroxy Radical Isomerization Following Addition of OH and O ₂ . <i>Journal of Physical Chemistry A</i> , 2012, 116, 5756-5762.	2.5	166
24	On the possible catalysis by single water molecules of gas-phase hydrogen abstraction reactions by OH radicals. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 12992.	2.8	32
25	Gas-phase oxidation of cresol isomers initiated by OH or NO ₃ radicals in the presence of NO ₂ . <i>International Journal of Chemical Kinetics</i> , 2012, 44, 165-178.	1.6	9
26	A Computational Study of the Oxidation of SO ₂ to SO ₃ by Gas-Phase Organic Oxidants. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8669-8681.	2.5	93
27	Atmospheric Chemistry of Two Biodiesel Model Compounds: Methyl Propionate and Ethyl Acetate. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8906-8919.	2.5	35
28	A theoretical investigation of gas phase NO ₃ initiated nitration of p-cresol. <i>Chemical Physics</i> , 2011, 389, 39-46.	1.9	11
29	Theoretical study of the gas phase reaction of methyl acetate with the hydroxyl radical: Structures, mechanisms, rates and temperature dependencies. <i>Chemical Physics Letters</i> , 2010, 490, 116-122.	2.6	26
30	Nitrate radical addition-elimination reactions of atmospherically relevant sulfur-containing molecules. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12833.	2.8	8
31	Effect of Hydration on the Hydrogen Abstraction Reaction by HO in DMS and its Oxidation Products. <i>Journal of Physical Chemistry A</i> , 2010, 114, 4857-4863.	2.5	56
32	Theoretical investigation of reactions between ammonia and precursors from the ozonolysis of ethene. <i>Chemical Physics</i> , 2009, 362, 8-15.	1.9	11
33	Methyl acetate reaction with OH and Cl: Reaction rates and products for a biodiesel analogue. <i>Chemical Physics Letters</i> , 2009, 472, 23-29.	2.6	9
34	A theoretical study of the kinetics of OH radical addition to halogen substituted propenes. <i>Chemical Physics Letters</i> , 2009, 481, 29-33.	2.6	14
35	Theoretical Investigation of the Reaction between Carbonyl Oxides and Ammonia. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10284-10290.	2.5	47
36	Isotope Effects in Photodissociation: Chemical Reaction Dynamics and Implications for Atmospheres. <i>Advances in Quantum Chemistry</i> , 2008, 55, 101-135.	0.8	10

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37	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
38	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
39	D. Manipulation of Molecules. , 2005, , 475-493.		0
40	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
41	Pulse-shaping algorithm of a coherent matter-wave-controlling reaction dynamics. Physical Review A, 2004, 70, .	2.5	3
42	Photo-dissociation of Cold MgH ⁺ ions. European Physical Journal D, 2004, 31, 403-408.	1.3	17
43	Theoretical Modeling of Steric Effect in Electron-Induced Desorption: CH ₃ Br/O/Ru(001). Journal of Physical Chemistry B, 2004, 108, 14056-14061.	2.6	7
44	Two-pulse atomic coherent control. Surface Science, 2003, 528, 156-162.	1.9	4
45	Two-pulse atomic coherent control spectroscopy of Eley-Rideal reactions: An application of an atom laser. Journal of Chemical Physics, 2003, 119, 149-160.	3.0	4
46	Investigation of Particle-Molecule Interactions by Use of a Dielectric Continuum Model. Journal of Physical Chemistry A, 2003, 107, 8623-8629.	2.5	7
47	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
48	Electronic states of Cu(111)/C ₆ H ₆ . A dielectric continuum approach and a heterogeneous solvation model. Chemical Physics, 2002, 278, 53-68.	1.9	4
49	Heterogeneous solvation: An ab initio approach. Journal of Chemical Physics, 2001, 115, 3792-3803.	3.0	35
50	Nonlinear optical response of molecule in inhomogeneous solvation environment: A response theory formalism. Journal of Chemical Physics, 2001, 115, 8185-8192.	3.0	13
51	Time-resolved two-photon photoemission spectroscopy of image potential states: A phenomenological approach. Journal of Chemical Physics, 2001, 115, 4314-4321.	3.0	5
52	Proton transfer reactions in solution. International Journal of Quantum Chemistry, 2000, 77, 221-239.	2.0	0