

Thomas Zeuch

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,502
citations

394421

19
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315739

38
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all docs

44
docs citations

44
times ranked

1392
citing authors

#	ARTICLE	IF	CITATIONS
1	Detailed Kinetic Mechanism for the Oxidation of Ammonia Including the Formation and Reduction of Nitrogen Oxides. <i>Energy & Fuels</i> , 2018, 32, 10202-10217.	5.1	220
2	A Fully Size-Resolved Perspective on the Crystallization of Water Clusters. <i>Science</i> , 2012, 337, 1529-1532.	12.6	167
3	A comprehensive and compact n-heptane oxidation model derived using chemical lumping. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1107-1126.	2.8	110
4	Comprehensive kinetic modeling and experimental study of a fuel-rich, premixed n-heptane flame. <i>Combustion and Flame</i> , 2015, 162, 2045-2058.	5.2	107
5	A comprehensive skeletal mechanism for the oxidation of n-heptane generated by chemistry-guided reduction. <i>Combustion and Flame</i> , 2008, 155, 651-674.	5.2	104
6	A size resolved investigation of large water clusters. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6859.	2.8	91
7	A detailed chemical reaction mechanism for the oxidation of hydrocarbons and its application to the analysis of benzene formation in fuel-rich premixed laminar acetylene and propene flames. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 3824-3835.	2.8	81
8	Infrared Detection of Criegee Intermediates Formed during the Ozonolysis of α -Pinene and Their Reactivity towards Sulfur Dioxide. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 715-719.	13.8	54
9	Combustion Chemistry of the Butane Isomers in Premixed Low-Pressure Flames. <i>Zeitschrift Fur Physikalische Chemie</i> , 2011, 225, 1029-1054.	2.8	52
10	The end of ice I. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 24413-24419.	7.1	50
11	Sodium doped hydrogen bonded clusters: Solvated electrons and size selection. <i>Chemical Physics Letters</i> , 2013, 579, 1-10.	2.6	38
12	Communications: Observation of two classes of isomers of hydrated electrons in sodium-water clusters. <i>Journal of Chemical Physics</i> , 2010, 132, 221102.	3.0	34
13	Kinetic Modeling of NO _x Formation and Consumption during Methanol and Ethanol Oxidation. <i>Combustion Science and Technology</i> , 2019, 191, 1627-1659.	2.3	33
14	Insights into nitromethane combustion from detailed kinetic modeling “ Pyrolysis experiments in jet-stirred and flow reactors. <i>Fuel</i> , 2020, 261, 116349.	6.4	32
15	Prompt NO formation in flames: The influence of NCN thermochemistry. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 657-666.	3.9	31
16	Infrared detection of (H ₂ O) ₂₀ isomers of exceptional stability: a drop-like and a face-sharing pentagonal prism cluster. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26691-26696.	2.8	28
17	Structural diversity in sodium doped water trimers. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 9054.	2.8	25
18	Mechanisms and rates of the reactions C ₂ H ₅ +O and 1-C ₃ H ₇ +O. <i>Proceedings of the Combustion Institute</i> , 2002, 29, 1247-1255.	3.9	23

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19	On the implications of nitromethane \leftrightarrow NO chemistry interactions for combustion processes. Fuel, 2021, 289, 119861.	6.4	21
20	Sulfur dioxide oxidation induced mechanistic branching and particle formation during the ozonolysis of β -pinene and 2-butene. Physical Chemistry Chemical Physics, 2012, 14, 15637.	2.8	20
21	Size resolved infrared spectroscopy of Na(CH ₃ OH) _n (n = 4–7) clusters in the OH stretching region: unravelling the interaction of methanol clusters with a sodium atom and the emergence of the solvated electron. Physical Chemistry Chemical Physics, 2012, 14, 3004.	2.8	18
22	The reaction of allyl radicals with oxygen atoms: rate coefficient and product branching. Proceedings of the Combustion Institute, 2009, 32, 157-164.	3.9	17
23	Pressure dependent mechanistic branching in the formation pathways of secondary organic aerosol from cyclic-alkene gas-phase ozonolysis. Physical Chemistry Chemical Physics, 2011, 13, 10952-10964.	2.8	16
24	Formation and Decomposition of Chemically Activated Cyclopentoxy Radicals from the c-C ₅ H ₉ + O Reaction. Journal of Physical Chemistry A, 2006, 110, 3165-3173.	2.5	15
25	Exploring the chemical kinetics of partially oxidized intermediates by combining experiments, theory, and kinetic modeling. Physical Chemistry Chemical Physics, 2017, 19, 18128-18146.	2.8	15
26	Pressure dependent aerosol formation from the cyclohexene gas-phase ozonolysis in the presence and absence of sulfur dioxide: a new perspective on the stabilisation of the initial clusters. Physical Chemistry Chemical Physics, 2012, 14, 11695.	2.8	14
27	Sodium Microsolvation in Ethanol: Common Features of Na(HO-R) _n (R = H,) Tj ETQq1 1 0.784314 rgBT /Overlock 6068-6076.	2.5	13
28	Size-Resolved Infrared Spectroscopic Study of Structural Transitions in Sodium-Doped (H ₂ O) _n Clusters Containing 10–100 Water Molecules. Journal of Physical Chemistry A, 2015, 119, 2709-2720.	2.5	13
29	Rate coefficients for cycloalkyl + O reactions and product branching in the decomposition of chemically activated cycloalkoxy radicals: an experimental and theoretical study. Physical Chemistry Chemical Physics, 2010, 12, 8953.	2.8	11
30	Detailed Chemical Kinetic Study of Acetaldehyde Oxidation and Its Interaction with NO _x . Energy & Fuels, 2021, 35, 14963-14983.	5.1	9
31	Suppressed Particle Formation by Kinetically Controlled Ozone Removal: Revealing the Role of Transient Species Chemistry during Alkene Ozonolysis. Angewandte Chemie - International Edition, 2009, 48, 2231-2235.	13.8	7
32	Temperature evolution in IR action spectroscopy experiments with sodium doped water clusters. Physical Chemistry Chemical Physics, 2021, 23, 7682-7695.	2.8	7
33	Revealing isomerism in sodium-water clusters: Photoionization spectra of Na(H ₂ O) _n (n =) Tj ETQq1 1,0,784314 rgBT /Overlock 3,0	2.8	6
34	Neutral Sulfuric Acid–Water Clustering Rates: Bridging the Gap between Molecular Simulation and Experiment. Journal of Physical Chemistry Letters, 2020, 11, 4239-4244.	4.6	6
35	Investigation of nucleation kinetics in H ₂ SO ₄ vapor through modeling of gas phase kinetics coupled with particle dynamics. Journal of Chemical Physics, 2018, 148, 104303.	3.0	5
36	The reaction of iso-propyl radicals with oxygen atoms: Rate coefficient, product branching, and relevance for combustion modeling. Proceedings of the Combustion Institute, 2011, 33, 283-291.	3.9	4

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37	Pressure Dependent Product Formation in the Photochemically Initiated Allyl + Allyl Reaction. <i>Molecules</i> , 2013, 18, 13608-13622.	3.8	4
38	Laserinduzierte Fluoreszenz von Iod in der Gasphase. <i>Chemkon - Chemie Konkret, Forum Fuer Unterricht Und Didaktik</i> , 2018, 25, 219-222.	0.4	0
39	Titelbild: Laserinduzierte Fluoreszenz von Iod in der Gasphase (CHEMKON 6/2018). <i>Chemkon - Chemie Konkret, Forum Fuer Unterricht Und Didaktik</i> , 2018, 25, 215-215.	0.4	0
40	Real-time monitoring of aerosol particle formation from sulfuric acid vapor at elevated concentrations and temperatures. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	0