Thomas Zeuch

List of Publications by Year
in descending order

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40 papers	1,502 citations	394421 19 h-index	315739 38 g-index
44 all docs	44 docs citations	44 times ranked	1392 citing authors

#	Article	IF	Citations
1	Real-time monitoring of aerosol particle formation from sulfuric acid vapor at elevated concentrations and temperatures. Physical Chemistry Chemical Physics, 2022, , .	2.8	0
2	On the implications of nitromethane â€“ NO chemistry interactions for combustion processes. Fuel, 2021, 289, 119861.	6.4	21
3	Temperature evolution in IR action spectroscopy experiments with sodium doped water clusters. Physical Chemistry Chemical Physics, 2021, 23, 7682-7695.	2.8	7
4	Detailed Chemical Kinetic Study of Acetaldehyde Oxidation and Its Interaction with NO_x. Energy & Fuels, 2021, 35, 14963-14983.	5.1	9
5	Insights into nitromethane combustion from detailed kinetic modeling â€“ Pyrolysis experiments in jet-stirred and flow reactors. Fuel, 2020, 261, 116349.	6.4	32
6	Neutral Sulfuric Acidâ€“Water Clustering Rates: Bridging the Gap between Molecular Simulation and Experiment. Journal of Physical Chemistry Letters, 2020, 11, 4239-4244.	4.6	6
7	The end of ice I. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24413-24419.	7.1	50
8	Kinetic Modeling of NO_x Formation and Consumption during Methanol and Ethanol Oxidation. Combustion Science and Technology, 2019, 191, 1627-1659.	2.3	33
9	Laserinduzierte Fluoreszenz von Iod in der Gasphase. Chemkon - Chemie Konkret, Forum Fuer Unterricht Und Didaktik, 2018, 25, 219-222.	0.4	0
10	Investigation of nucleation kinetics in H2SO4 vapor through modeling of gas phase kinetics coupled with particle dynamics. Journal of Chemical Physics, 2018, 148, 104303.	3.0	5
11	Titelbild: Laserinduzierte Fluoreszenz von Iod in der Gasphase (CHEMKON 6/2018). Chemkon - Chemie Konkret, Forum Fuer Unterricht Und Didaktik, 2018, 25, 215-215.	0.4	0
12	Detailed Kinetic Mechanism for the Oxidation of Ammonia Including the Formation and Reduction of Nitrogen Oxides. Energy & Fuels, 2018, 32, 10202-10217.	5.1	220
13	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
14	Revealing isomerism in sodium-water clusters: Photoionization spectra of Na(H2O)n (n =) Tj ETQq0 0 0 rgBT /Overlock 10	3.0	6
15	Size-Resolved Infrared Spectroscopic Study of Structural Transitions in Sodium-Doped (H₂O)_n Clusters Containing 10â€“100 Water Molecules. Journal of Physical Chemistry A, 2015, 119, 2709-2720.	2.5	13
16	Comprehensive kinetic modeling and experimental study of a fuel-rich, premixed n-heptane flame. Combustion and Flame, 2015, 162, 2045-2058.	5.2	107
17	Infrared detection of (H₂O)₂₀ isomers of exceptional stability: a drop-like and a face-sharing pentagonal prism cluster. Physical Chemistry Chemical Physics, 2014, 16, 26691-26696.	2.8	28
18	Infrared Detection of Criegee Intermediates Formed during the Ozonolysis of Î²â€Pinene and Their Reactivity towards Sulfur Dioxide. Angewandte Chemie - International Edition, 2014, 53, 715-719.	13.8	54

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19	A size resolved investigation of large water clusters. Physical Chemistry Chemical Physics, 2014, 16, 6859.	2.8	91
20	Sodium doped hydrogen bonded clusters: Solvated electrons and size selection. Chemical Physics Letters, 2013, 579, 1-10.	2.6	38
21	Prompt NO formation in flames: The influence of NCN thermochemistry. Proceedings of the Combustion Institute, 2013, 34, 657-666.	3.9	31
22	Pressure Dependent Product Formation in the Photochemically Initiated Allyl + Allyl Reaction. Molecules, 2013, 18, 13608-13622.	3.8	4
23	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
24	Size resolved infrared spectroscopy of Na(CH3OH)n (n = 4â€“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
25	Structural diversity in sodium doped water trimers. Physical Chemistry Chemical Physics, 2012, 14, 9054.	2.8	25
26	Sulfur dioxide oxidation induced mechanistic branching and particle formation during the ozonolysis of Î²-pinene and 2-butene. Physical Chemistry Chemical Physics, 2012, 14, 15637.	2.8	20
27	A Fully Size-Resolved Perspective on the Crystallization of Water Clusters. Science, 2012, 337, 1529-1532.	12.6	167
28	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
29	Sodium Microsolvation in Ethanol: Common Features of Na(HO-R)_n (R = H,) Tj ETQq1 1 0.784314 rgBT /Overlock 1 6068-6076.	2.5	13
30	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
31	Combustion Chemistry of the Butane Isomers in Premixed Low-Pressure Flames. Zeitschrift Fur Physikalische Chemie, 2011, 225, 1029-1054.	2.8	52
32	Communications: Observation of two classes of isomers of hydrated electrons in sodium-water clusters. Journal of Chemical Physics, 2010, 132, 221102.	3.0	34
33	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
34	Suppressed Particle Formation by Kinetically Controlled Ozone Removal: Revealing the Role of Transientâ€Species Chemistry during Alkene Ozonolysis. Angewandte Chemie - International Edition, 2009, 48, 2231-2235.	13.8	7
35	The reaction of allyl radicals with oxygen atomsâ€”rate coefficient and product branching. Proceedings of the Combustion Institute, 2009, 32, 157-164.	3.9	17
36	A comprehensive skeletal mechanism for the oxidation of n-heptane generated by chemistry-guided reduction. Combustion and Flame, 2008, 155, 651-674.	5.2	104

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37	A comprehensive and compact n-heptane oxidation model derived using chemical lumping. Physical Chemistry Chemical Physics, 2007, 9, 1107-1126.	2.8	110
38	Formation and Decomposition of Chemically Activated Cyclopentoxy Radicals from the c-C5H9 + O Reaction. Journal of Physical Chemistry A, 2006, 110, 3165-3173.	2.5	15
39	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. Physical Chemistry Chemical Physics, 2004, 6, 3824-3835.	2.8	81
40	Mechanisms and rates of the reactions C2H5+O and 1-C3H7+O. Proceedings of the Combustion Institute, 2002, 29, 1247-1255.	3.9	23