Kenneth Brezinsky

List of Publications by Year
in descending order

38 papers	1,997 citations	304368 22 h-index	329751 37 g-index
38 all docs	38 docs citations	38 times ranked	1114 citing authors

#	Article	IF	Citations
1	The experimental evaluation of a methodology for surrogate fuel formulation to emulate gas phase combustion kinetic phenomena. Combustion and Flame, 2012, 159, 1444-1466.	2.8	355
2	A physics-based approach to modeling real-fuel combustion chemistry - I. Evidence from experiments, and thermodynamic, chemical kinetic and statistical considerations. Combustion and Flame, 2018, 193, 502-519.	2.8	304
3	A physics-based approach to modeling real-fuel combustion chemistryÂâ€“ÂII. Reaction kinetic models of jet and rocket fuels. Combustion and Flame, 2018, 193, 520-537.	2.8	247
4	Experimental and modeling study on the oxidation of Jet A and the n-dodecane/iso-octane/n-propylbenzene/1,3,5-trimethylbenzene surrogate fuel. Combustion and Flame, 2013, 160, 17-30.	2.8	95
5	Experimental and modeling study on the pyrolysis and oxidation of n-decane and n-dodecane. Proceedings of the Combustion Institute, 2013, 34, 361-368.	2.4	93
6	Modeling the combustion of toluene-butane blends. Proceedings of the Combustion Institute, 1998, 27, 337-344.	0.3	74
7	Computational Study on the Thermochemistry of Cyclopentadiene Derivatives and Kinetics of Cyclopentadienone Thermal Decomposition. Journal of Physical Chemistry A, 1998, 102, 1530-1541.	1.1	71
8	Calibration of reaction temperatures in a very high pressure shock tube using chemical thermometers. International Journal of Chemical Kinetics, 2001, 33, 722-731.	1.0	67
9	A Physics-based approach to modeling real-fuel combustion chemistry â€“ÂIII. Reaction kinetic model of JP10. Combustion and Flame, 2018, 198, 466-476.	2.8	67
10	Chemical kinetic simulations behind reflected shock waves. International Journal of Chemical Kinetics, 2006, 38, 75-97.	1.0	61
11	Experimental and modeling study on the pyrolysis and oxidation of iso-octane. Proceedings of the Combustion Institute, 2013, 34, 353-360.	2.4	48
12	Biologically derived diesel fuel and NO formation: An experimental and chemical kinetic study, Part 1. Combustion and Flame, 2011, 158, 2289-2301.	2.8	45
13	High pressure study of n-propylbenzene oxidation. Combustion and Flame, 2012, 159, 940-958.	2.8	41
14	High pressure study of m-xylene oxidation. Combustion and Flame, 2011, 158, 687-704.	2.8	38
15	Bayesian Error Propagation for a Kinetic Model of <i>n</i>â€Propylbenzene Oxidation in a Shock Tube. International Journal of Chemical Kinetics, 2014, 46, 389-404.	1.0	38
16	A SHOCK-TUBE STUDY OF THE HIGH-PRESSURE THERMAL DECOMPOSITION OF BENZENE. Combustion Science and Technology, 2006, 178, 285-305.	1.2	37
17	Experimental and modeling study of the pyrolysis and oxidation of an iso-paraffinic alcohol-to-jet fuel. Combustion and Flame, 2019, 201, 57-64.	2.8	36
18	Single Pulse Shock Tube Study of Allyl Radical Recombination. Journal of Physical Chemistry A, 2013, 117, 4762-4776.	1.1	33

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19	High pressure, high temperature shock tube studies of ethane pyrolysis and oxidation. Physical Chemistry Chemical Physics, 2002, 4, 2001-2010.	1.3	32
20	Influence of the double bond position on the oxidation of decene isomers at high pressures and temperatures. Proceedings of the Combustion Institute, 2015, 35, 333-340.	2.4	26
21	Temperature approximations in chemical kinetics studies using single pulse shock tubes. Combustion and Flame, 2019, 209, 1-12.	2.8	26
22	Ethane oxidation and pyrolysis from 5 bar to 1000 bar: Experiments and simulation. International Journal of Chemical Kinetics, 2005, 37, 306-331.	1.0	24
23	Biologically derived diesel fuel and NO formation. Combustion and Flame, 2011, 158, 2302-2313.	2.8	21
24	High pressure study of 1,3,5-trimethylbenzene oxidation. Combustion and Flame, 2012, 159, 3264-3285.	2.8	20
25	Chemical Kinetic Influences of Alkyl Chain Structure on the High Pressure and Temperature Oxidation of a Representative Unsaturated Biodiesel: Methyl Nonenoate. Journal of Physical Chemistry A, 2015, 119, 7559-7577.	1.1	20
26	A high pressure shock tube study of pyrolysis of real jet fuel Jet A. Proceedings of the Combustion Institute, 2019, 37, 189-196.	2.4	18
27	Experimental and comparative modeling study of high temperature and very high pressure methylcyclohexane pyrolysis. Fuel, 2019, 237, 245-262.	3.4	13
28	N-Heptane Pyrolysis and Oxidation in Ethyleneâ€"Methane and Iso-Octane Mixtures. Journal of Propulsion and Power, 2013, 29, 732-743.	1.3	8
29	Experimental and modeling study of the oxidation of F-24 jet fuel, and its mixture with an iso-paraffinic synthetic jet fuel, ATJ. Combustion and Flame, 2021, 224, 108-125.	2.8	8
30	Experimental speciation study of natural gas oxidation using a single pulse shock tube. International Journal of Chemical Kinetics, 2021, 53, 845-867.	1.0	7
31	Microwaveâ€Assisted Combustion Synthesis of Tantalum Nitride in a Fluidized Bed. Journal of the American Ceramic Society, 2003, 86, 222-226.	1.9	6
32	Variable highâ€pressure and concentration study of cyclohexane pyrolysis at high temperatures. International Journal of Chemical Kinetics, 2019, 51, 49-73.	1.0	5
33	Oxidation of an <i>iso</i>â€paraffinic alcoholâ€toâ€jet fuel and nâ€heptane mixture: An experimental and modeling study. International Journal of Chemical Kinetics, 2021, 53, 1014-1035.	1.0	5
34	Elevated Pressure Thermal Experiments and Modeling Studies on the Water-Gas Shift Reaction. Journal of Propulsion and Power, 2008, 24, 1085-1092.	1.3	4
35	High-Pressure Shock Tube Studies on Carbon Oxidation Reactions with Carbon Dioxide and Water. Energy & Fuels, 2009, 23, 5806-5812.	2.5	2
36	High-pressure shock tube studies on graphite oxidation reactions with carbon dioxide and water. Proceedings of the Combustion Institute, 2011, 33, 1837-1842.	2.4	1

#	Article	IF	Citations
37	Shock tube study of natural gas oxidation at propulsion relevant conditions. Proceedings of the Combustion Institute, 2022, , .	2.4	1
38	Experimental and modeling study of hex-5-en-1-yl radical pyrolysis at very high pressure and temperature. Combustion and Flame, 2019, 201, 301-314.	2.8	0