

Steven Zabarnick

List of Publications by Year in descending order

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51
papers

2,085
citations

218677

26
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243625

44
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53
all docs

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docs citations

53
times ranked

1123
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies of the Impact of Fuel Deoxygenation on the Formation of Autoxidative Deposits. <i>Energy & Fuels</i> , 2020, 34, 13814-13821.	5.1	13
2	Studies of the Role of Heteroatomic Species in Jet Fuel Thermal Stability: Model Fuel Mixtures and Real Fuels. <i>Energy & Fuels</i> , 2019, 33, 8557-8565.	5.1	28
3	Improvement in Jet Aircraft Operation with the Use of High-Performance Drop-in Fuels. , 2019, , .		11
4	Properties Calculator and Optimization for Drop-in Alternative Jet Fuel Blends. , 2019, , .		11
5	Investigation of Water Interactions with Petroleum-Derived and Synthetic Aviation Turbine Fuels. <i>Energy & Fuels</i> , 2018, 32, 1166-1178.	5.1	21
6	Experimental and Modeling Studies of Heat Transfer, Fluid Dynamics, and Autoxidation Chemistry in the Jet Fuel Thermal Oxidation Tester (JFTOT). <i>Energy & Fuels</i> , 2015, 29, 7036-7047.	5.1	24
7	Hydrocarbon Group-Type Analysis of Petroleum-Derived and Synthetic Fuels Using Two-Dimensional Gas Chromatography. <i>Energy & Fuels</i> , 2014, 28, 5696-5706.	5.1	66
8	Effect of Aromatics on the Thermal-Oxidative Stability of Synthetic Paraffinic Kerosene. <i>Energy & Fuels</i> , 2014, 28, 3696-3703.	5.1	26
9	Equilibrium Partitioning of Di-ethylene Glycol Monomethyl Ether (DiEGME) between Fuel and Aqueous Phases at Sub-Ambient Temperatures. <i>Energy & Fuels</i> , 2014, 28, 4501-4510.	5.1	4
10	Chemical Analysis of Jet Fuel Polar, Heteroatomic Species via High-Performance Liquid Chromatography with Electrospray Ionization–Mass Spectrometric Detection. <i>Energy & Fuels</i> , 2013, 27, 2390-2398.	5.1	22
11	Turbulent Flow, Heat Transfer Deterioration, and Thermal Oxidation of Jet Fuel. <i>Journal of Thermophysics and Heat Transfer</i> , 2013, 27, 668-678.	1.6	33
12	Effects of Flow Passage Expansion or Contraction on Jet-Fuel Surface Deposition. <i>Journal of Propulsion and Power</i> , 2012, 28, 694-706.	2.2	11
13	Chemical, Thermal Stability, Seal Swell, and Emissions Studies of Alternative Jet Fuels. <i>Energy & Fuels</i> , 2011, 25, 955-966.	5.1	231
14	Homogeneous Catalysis of Liquid-Phase Hydroperoxide Decomposition in Hydrocarbons. <i>Energy & Fuels</i> , 2011, 25, 897-904.	5.1	9
15	Compatibility of DiEGME and TriEGME Fuel System Icing Inhibitor Additives with BMS 10-39 Aircraft Tank Topcoat Material. <i>Energy & Fuels</i> , 2010, 24, 2614-2627.	5.1	6
16	Identification of Polar Species in Aviation Fuels using Multidimensional Gas Chromatography-Time of Flight Mass Spectrometry. <i>Energy & Fuels</i> , 2009, 23, 5474-5482.	5.1	35
17	Development of an advanced, thermally stable, coal-based jet fuel. <i>Fuel Processing Technology</i> , 2008, 89, 364-378.	7.2	99
18	Use of Measured Species Class Concentrations with Chemical Kinetic Modeling for the Prediction of Autoxidation and Deposition of Jet Fuels. <i>Energy & Fuels</i> , 2007, 21, 530-544.	5.1	71

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19	Analysis of Polar Species in Jet Fuel and Determination of Their Role in Autoxidative Deposit Formation. Energy & Fuels, 2006, 20, 2564-2571.	5.1	77
20	Density Functional Theory Calculations of the Energetics and Kinetics of Jet Fuel Autoxidation Reactions. Energy & Fuels, 2006, 20, 488-497.	5.1	44
21	Experimental and Computational Studies of Jet Fuel Flow near the Freeze Point. Journal of Propulsion and Power, 2006, 22, 534-541.	2.2	3
22	Determination of Hydroperoxides in Jet Fuel via Reaction with Triphenylphosphine. Industrial & Engineering Chemistry Research, 2005, 44, 3377-3383.	3.7	28
23	Pressure Effects on Flowing Mildly-Cracked n-Decane. Journal of Propulsion and Power, 2005, 21, 344-355.	2.2	123
24	Simulations of Flowing Mildly-Cracked Normal Alkanes Incorporating Proportional Product Distributions. Journal of Propulsion and Power, 2004, 20, 394-402.	2.2	174
25	Modeling the liquid-phase oxidation of hydrocarbons over a range of temperatures and dissolved oxygen concentrations with pseudo-detailed chemical kinetics. Fuel, 2004, 83, 1795-1801.	6.4	54
26	Fischer-Tropsch Jet Fuels - Characterization for Advanced Aerospace Applications. , 2004, , .		28
27	Flow and Chemical Kinetics Simulations of Endothermic Fuels. , 2003, , 1931.		0
28	Studies of Urea Treatment on the Low-Temperature Properties of Jet Fuel. Energy & Fuels, 2002, 16, 1565-1570.	5.1	6
29	Studies of Jet Fuel Freezing by Differential Scanning Calorimetry. Energy & Fuels, 2001, 15, 1447-1453.	5.1	20
30	Studies of Jet Fuel Thermal Stability, Oxidation, and Additives Using an Isothermal Oxidation Apparatus Equipped with an Oxygen Sensor. Energy & Fuels, 1999, 13, 756-760.	5.1	29
31	Pseudo-Detailed Chemical Kinetic Modeling of Antioxidant Chemistry for Jet Fuel Applications. Energy & Fuels, 1998, 12, 547-553.	5.1	54
32	Aspects of Jet Fuel Oxidation. , 1997, , .		0
33	Silver Corrosion and Sulfur Detection Using a Quartz Crystal Microbalance with Silver Electrode Surfaces. Industrial & Engineering Chemistry Research, 1996, 35, 2576-2580.	3.7	4
34	Jet Fuel Deposition and Oxidation: Dilution, Materials, Oxygen, and Temperature Effects. , 1995, , .		0
35	Chemical kinetics of NOx production in a well stirred reactor. , 1994, , .		6
36	Oxidation of jet fuels and the formation of deposit. Fuel, 1994, 73, 35-43.	6.4	115

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37	Comment on "Laser-induced fluorescence diagnostics and chemical kinetic modeling of a CH ₄ /NO ₂ /O ₂ flame at 55 torr" by S. Zabarnick. <i>Combustion and Flame</i> , 1994, 98, 309-311.	5.2	4
38	Studies of Jet Fuel Thermal Stability and Oxidation Using a Quartz Crystal Microbalance and Pressure Measurements. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 1348-1354.	3.7	42
39	Studies of Jet Fuel Additives using the Quartz Crystal Microbalance and Pressure Monitoring at 140.degree.C. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 2771-2777.	3.7	39
40	Kinetics of the reaction OH + NO + M → HONO + M as a function of temperature and pressure in the presence of argon, SF ₆ , and N ₂ bath gas. <i>Chemical Physics</i> , 1993, 171, 265-273.	1.9	12
41	Chemical kinetic modeling of jet fuel autoxidation and antioxidant chemistry. <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 1012-1017.	3.7	86
42	Supercritical fuel deposition mechanisms. <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 3117-3122.	3.7	141
43	A Comparison of CH ₄ /NO ₂ /O ₂ and CH ₄ /N ₂ /O ₂ Flames by LIF Diagnostics and Chemical Kinetic Modeling. <i>Combustion Science and Technology</i> , 1992, 83, 115-134.	2.3	29
44	Laser-induced fluorescence diagnostics and chemical kinetic modeling of a CH ₄ /NO ₂ /O ₂ flame at 55 torr. <i>Combustion and Flame</i> , 1991, 85, 27-50.	5.2	30
45	Direct measurement of rate constants for the reactions of CH and CD with HCN and DCN. <i>Chemical Physics</i> , 1991, 150, 109-115.	1.9	18
46	Kinetics of CN(X ² Σ ⁺) radical reactions with HCN, BrCN and CH ₃ CN. <i>Chemical Physics</i> , 1989, 134, 185-191.	1.9	37
47	Kinetics of hydroxyl radical reactions with formaldehyde and 1,3,5-trioxane between 290 and 600 K. <i>International Journal of Chemical Kinetics</i> , 1988, 20, 117-129.	1.6	35
48	Kinetic study of the reaction CH(X ² Σ ⁺) + H ₂ → CH ₂ (X ³ Σ ⁻) + H in the temperature range 372 to 675 K. <i>Journal of Chemical Physics</i> , 1986, 85, 4373-4376.	3.0	68
49	Reactions of alkoxy radicals with O ₂ . I. C ₂ H ₅ O radicals. <i>International Journal of Chemical Kinetics</i> , 1985, 17, 455-476.	1.6	32
50	The reactions of alkoxy radicals with O ₂ . II. n-C ₃ H ₇ O radicals. <i>International Journal of Chemical Kinetics</i> , 1985, 17, 477-501.	1.6	15
51	Reactions of alkoxy radicals with O ₂ . III. i-C ₄ H ₉ O radicals. <i>International Journal of Chemical Kinetics</i> , 1985, 17, 503-524.	1.6	10