

Stephen Dooley

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,600
citations

236925

25
h-index

330143

37
g-index

48
all docs

48
docs citations

48
times ranked

1532
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Prescreening of Sustainable Aviation Jet Fuels. , 2021, , 487-523. | | 4 |
| 2 | Rational Design and Testing of Anti-Knock Additives. Energies, 2020, 13, 4923. | 3.1 | 7 |
| 3 | Accurate and standard thermochemistry for oxygenated hydrocarbons: A case study of ethyl levulinate. Proceedings of the Combustion Institute, 2019, 37, 337-346. | 3.9 | 4 |
| 4 | Mechanism and theory of α -glucopyranose homogeneous acid catalysis in the aqueous solution phase. Physical Chemistry Chemical Physics, 2019, 21, 17993-18011. | 2.8 | 9 |
| 5 | Quantitative NMR Spectroscopy for the Analysis of Fuels: A Case Study of FACE Gasoline F. Energy & Fuels, 2019, 33, 11741-11756. | 5.1 | 18 |
| 6 | Ethanolc gasoline, a lignocellulosic advanced biofuel. Sustainable Energy and Fuels, 2019, 3, 409-421. | 4.9 | 12 |
| 7 | Surrogate fuels and combustion characteristics of liquid transportation fuels. Computer Aided Chemical Engineering, 2019, 45, 513-602. | 0.5 | 7 |
| 8 | Chemical functional group descriptor for ignition propensity of large hydrocarbon liquid fuels. Proceedings of the Combustion Institute, 2019, 37, 5083-5093. | 3.9 | 27 |
| 9 | A minimalist functional group (MFG) approach for surrogate fuel formulation. Combustion and Flame, 2018, 192, 250-271. | 5.2 | 71 |
| 10 | The combustion kinetics of the lignocellulosic biofuel, ethyl levulinate. Combustion and Flame, 2018, 193, 157-169. | 5.2 | 20 |
| 11 | On the Development of General Surrogate Composition Calculations for Chemical and Physical Properties. , 2017, , . | | 9 |
| 12 | Reconstruction of chemical structure of real fuel by surrogate formulation based upon combustion property targets. Combustion and Flame, 2017, 183, 39-49. | 5.2 | 72 |
| 13 | Detailed Measurement Uncertainty Analysis of Solid-Phase Adsorption-Total Gas Chromatography (GC)-Detectable Tar from Biomass Gasification. Energy & Fuels, 2016, 30, 2187-2197. | 5.1 | 26 |
| 14 | Predicting Fuel Ignition Quality Using ^1H NMR Spectroscopy and Multiple Linear Regression. Energy & Fuels, 2016, 30, 9819-9835. | 5.1 | 85 |
| 15 | Predicting the global combustion behaviors of petroleum-derived and alternative jet fuels by simple fuel property measurements. Fuel, 2016, 168, 34-46. | 6.4 | 68 |
| 16 | Combustion characteristics of C4 iso-alkane oligomers: Experimental characterization of iso-dodecane as a jet fuel surrogate component. Combustion and Flame, 2016, 165, 137-143. | 5.2 | 48 |
| 17 | Fluidized Bed Gasification of Torrefied and Raw Grassy Biomass (<i>Miscanthus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2015, 29, 7290-7300. | 5.1 | 24 |
| 18 | Decomposition Studies of Isopropanol in a Variable Pressure Flow Reactor. Zeitschrift Fur Physikalische Chemie, 2015, 229, 881-907. | 2.8 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Reaction Pathway Analysis of Ethyl Levulinate and 5-Ethoxymethylfurfural from Fructose Acid Hydrolysis in Ethanol. Energy & Fuels, 2015, 29, 7554-7565. | 5.1 | 76 |
| 20 | Simulating the Sooting Propensity of JP-8 with Surrogate Fuels from Hydrocarbon Fluids. Journal of Propulsion and Power, 2014, 30, 1410-1418. | 2.2 | 19 |
| 21 | Characterization of Global Combustion Properties with Simple Fuel Property Measurements for Alternative Jet Fuels. , 2014, , . | | 9 |
| 22 | Development of Reduced Kinetic Models for Petroleum-Derived and Alternative Jet Fuels. , 2014, , . | | 11 |
| 23 | The combustion properties of 2,6,10-trimethyl dodecane and a chemical functional group analysis. Combustion and Flame, 2014, 161, 826-834. | 5.2 | 100 |
| 24 | Importance of a Cycloalkane Functionality in the Oxidation of a Real Fuel. Energy & Fuels, 2014, 28, 7649-7661. | 5.1 | 44 |
| 25 | Emulating the Combustion Behavior of Real Jet Aviation Fuels by Surrogate Mixtures of Hydrocarbon Fluid Blends: Implications for Science and Engineering. Energy & Fuels, 2014, 28, 3474-3485. | 5.1 | 70 |
| 26 | Gasification of <i>Miscanthus x giganteus</i> in an Air-Blown Bubbling Fluidized Bed: A Preliminary Study of Performance and Agglomeration. Energy & Fuels, 2014, 28, 1121-1131. | 5.1 | 31 |
| 27 | Dehydration Rate Measurements for <i>tertiary</i> -Butanol in a Variable Pressure Flow Reactor. Journal of Physical Chemistry A, 2013, 117, 8997-9004. | 2.5 | 4 |
| 28 | A comparative study of the chemical kinetic characteristics of small methyl esters in diffusion flame extinction. Proceedings of the Combustion Institute, 2013, 34, 821-829. | 3.9 | 78 |
| 29 | The combustion properties of 1,3,5-trimethylbenzene and a kinetic model. Fuel, 2013, 109, 125-136. | 6.4 | 41 |
| 30 | Reduced Kinetic Models for the Combustion of Jet Propulsion Fuels. , 2013, , . | | 15 |
| 31 | Emulating the Sooting Propensity of JP-8 with Surrogate Fuels from Solvent Mixtures. , 2012, , . | | 3 |
| 32 | Flow Reactor Autoignition Studies of Iso-octane at High Pressures and Low to Intermediate Temperatures. , 2012, , . | | 0 |
| 33 | Measurements and Modeling of the Laminar Flame Speeds of n-Propyl and 1,3,5-TriMethyl Benzenes at Moderate Pressures. , 2012, , . | | 0 |
| 34 | The combustion kinetics of a synthetic paraffinic jet aviation fuel and a fundamentally formulated, experimentally validated surrogate fuel. Combustion and Flame, 2012, 159, 3014-3020. | 5.2 | 124 |
| 35 | An Experimentally Validated Surrogate Fuel for the Combustion Kinetics of S-8, a Synthetic Paraffinic Jet Aviation Fuel. , 2012, , . | | 3 |
| 36 | Laminar flame speeds and extinction stretch rates of selected aromatic hydrocarbons. Fuel, 2012, 97, 695-702. | 6.4 | 56 |

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|----|--|-----|-----------|
| 37 | A detailed experimental and kinetic modeling study of n-decane oxidation at elevated pressures. Combustion and Flame, 2012, 159, 30-43. | 5.2 | 59 |
| 38 | A radical index for the determination of the chemical kinetic contribution to diffusion flame extinction of large hydrocarbon fuels. Combustion and Flame, 2012, 159, 541-551. | 5.2 | 100 |
| 39 | Methyl butanoate inhibition of n-heptane diffusion flames through an evaluation of transport and chemical kinetics. Combustion and Flame, 2012, 159, 1371-1384. | 5.2 | 42 |
| 40 | A chemical kinetic study of tertiary-butanol in a flow reactor and a counterflow diffusion flame. Combustion and Flame, 2012, 159, 968-978. | 5.2 | 46 |
| 41 | The experimental evaluation of a methodology for surrogate fuel formulation to emulate gas phase combustion kinetic phenomena. Combustion and Flame, 2012, 159, 1444-1466. | 5.2 | 355 |
| 42 | A kinetic model for methyl decanoate combustion. Combustion and Flame, 2012, 159, 1793-1805. | 5.2 | 82 |
| 43 | Numerical Simulations of Low Temperature Ignition Chemistry with Flow, Temperature, and Species Fluctuations in High Pressure Counterflow Flames. , 2012, , . | | 1 |
| 44 | Radical Index on Extinction Limits of Diffusion Flames for Large Hydrocarbon Fuels. , 2011, , . | | 0 |
| 45 | Kinetic effects of aromatic molecular structures on diffusion flame extinction. Proceedings of the Combustion Institute, 2011, 33, 1163-1170. | 3.9 | 80 |
| 46 | A jet fuel surrogate formulated by real fuel properties. Combustion and Flame, 2010, 157, 2333-2339. | 5.2 | 484 |
| 47 | Enthalpies of Formation, Bond Dissociation Energies and Reaction Paths for the Decomposition of Model Biofuels:Â Ethyl Propanoate and Methyl Butanoateâ€. Journal of Physical Chemistry A, 2007, 111, 3727-3739. | 2.5 | 145 |