

CITATION REPORT

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Experimental study of the kinetics of ethanol pyrolysis and oxidation behind reflected shock waves and in laminar flames

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Proceedings of the Combustion Institute, 2015, 35, 393-400.

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#	Paper	IF	Citations
41	A single-pulse shock tube coupled with high-repetition-rate time-of-flight mass spectrometry and gas chromatography for high-temperature gas-phase kinetics studies. <i>Review of Scientific Instruments</i> , 2016 , 87, 105103	1.7	20
40	Development of an Ethanol Combustion Mechanism Based on a Hierarchical Optimization Approach. <i>International Journal of Chemical Kinetics</i> , 2016 , 48, 423-441	1.4	56
39	Fundamental combustion properties of oxygen enriched hydrogen/air mixtures relevant to safety analysis: Experimental and simulation study. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 6905-6916	6.7	14
38	Laminar flame speeds of pentanol isomers: An experimental and modeling study. <i>Combustion and Flame</i> , 2016 , 166, 1-18	5.3	39
37	Effect of ethanol addition on soot formation in laminar methane diffusion flames at pressures above atmospheric. <i>Combustion and Flame</i> , 2018 , 193, 306-312	5.3	17
36	A multipurpose reduced mechanism for ethanol combustion. <i>Combustion and Flame</i> , 2018 , 193, 112-122	5.3	27
35	Measurement of laminar burning velocity of ethanol-air mixtures at elevated temperatures. <i>Fuel</i> , 2018 , 231, 37-44	7.1	29
34	A comprehensive review of measurements and data analysis of laminar burning velocities for various fuel+air mixtures. <i>Progress in Energy and Combustion Science</i> , 2018 , 68, 197-267	33.6	198
33	An improved reaction mechanism for predicting the charged species in ethanol-air flame. <i>Fuel</i> , 2018 , 228, 74-80	7.1	10
32	Study of mechanisms for electric field effects on ethanol oxidation via reactive force field molecular dynamics. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 5525-5535	5.9	17
31	Ethanol pyrolysis kinetics using H ₂ O time history measurements behind reflected shock waves. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 239-247	5.9	12
30	Ethanol oxidation with high water content: A reactive molecular dynamics simulation study. <i>Fuel</i> , 2019 , 235, 515-521	7.1	16
29	Experimental study of ethanol oxidation behind reflected shock waves: Ignition delay time and H ₂ O laser-absorption measurements. <i>Combustion and Flame</i> , 2019 , 208, 313-326	5.3	20
28	High-pressure shock tube study of ethanol oxidation: Ignition delay time and CO time-history measurements. <i>Combustion and Flame</i> , 2020 , 212, 486-499	5.3	16
27	A six-compound, high performance gasoline surrogate for internal combustion engines: Experimental and numerical study of autoignition using high-pressure shock tubes. <i>Fuel</i> , 2020 , 261, 116439	7.1	8
26	Construction of a compact skeletal mechanism for acetone+butanol+ethanol (ABE)/diesel blends combustion in engines using a decoupling methodology. <i>Fuel Processing Technology</i> , 2020 , 209, 106526	7.2	4
25	Shock tube studies on ignition delay and combustion characteristics of oxygenated fuels under high temperature. <i>International Journal of Energy Research</i> , 2020 , 44, 10101-10111	4.5	1

24	ReaxFF Study of Ethanol Oxidation in O/N and O/CO Environments at High Temperatures. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 700-713	6.1	7
23	A New Detailed Ethanol Kinetic Mechanism at Engine-Relevant Conditions. <i>Energy & Fuels</i> , 2020 , 34, 3691-3708	4.1	8
22	Pyrolysis of diethyl carbonate: Shock-tube and flow-reactor measurements and modeling. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 987-996	5.9	1
21	Pyrolysis of ethanol studied in a new high-repetition-rate shock tube coupled to synchrotron-based double imaging photoelectron/photoion coincidence spectroscopy. <i>Combustion and Flame</i> , 2021 , 226, 53-68	5.3	2
20	Reprint of: Pyrolysis of ethanol studied in a new high-repetition-rate shock tube coupled to synchrotron-based double imaging photoelectron/photoion coincidence spectroscopy. <i>Combustion and Flame</i> , 2021 , 224, 150-165	5.3	1
19	Ethanol supplement increases soot yields in nitrogen-diluted laminar ethylene diffusion flames at pressures from 3 to 5bar. <i>Combustion and Flame</i> , 2021 , 227, 1-10	5.3	1
18	Shock tube study of ethanol pyrolysis II: Rate constant measurements and modeling. <i>Combustion and Flame</i> , 2021 , 233, 111554	5.3	1
17	Laminar Burning Velocity and Ignition Delay Time of Oxygenated Biofuel. <i>Energies</i> , 2021 , 14, 3562	3.1	1
16	Shock tube study of ethanol pyrolysis I: Multi-species time-history measurements. <i>Combustion and Flame</i> , 2021 , 111553	5.3	2
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13	Experimental Investigation of Ethanol Oxidation and Development of a Reduced Reaction Mechanism for a Wide Temperature Range. <i>Energy & Fuels</i> , 2021 , 35, 14780-14792	4.1	2
12	Laminar Flame Speeds and Ignition Delay Times of Gasoline/Air and Gasoline/Alcohol/Air Mixtures: The Effects of Heavy Alcohol Compared to Light Alcohol. <i>Energy & Fuels</i> , 2021 , 35, 14913-14923	4.1	6
11	Development of a laminar burning velocity empirical correlation for combustion of iso-octane/ethanol blends in air. <i>Fuel</i> , 2022 , 307, 121880	7.1	1
10	Reduced Reaction Mechanisms for Ethanol under Ultra-lean Conditions in Internal Combustion Engines. <i>ACS Omega</i> , 2021 , 6, 206-216	3.9	1
9	Shock tube investigation of high-temperature, extremely-rich oxidation of several co-optima biofuels for spark-ignition engines. <i>Combustion and Flame</i> , 2022 , 236, 111794	5.3	0
8	An Experimental and a Kinetic Modelling Study of Ethanol/Acetone/Ethyl Acetate Mixtures. <i>Energies</i> , 2022 , 15, 2992	3.1	0
7	Laminar flame speeds and ignition delay times for isopropyl nitrate and propane blends. <i>Combustion and Flame</i> , 2022 , 242, 112187	5.3	1

- 6 Experimental study of the formation of CO during ethanol pyrolysis and dry reforming with CO₂. *Applications in Energy and Combustion Science*, **2022**, 11, 100076 0.8
- 5 Experimental and numerical study on the laminar flame characteristics for PODE3 and PODE3/iso-octane blends under elevated and sub-ambient initial pressures. *Fuel*, **2022**, 328, 125006 7.1 ○
- 4 Pyrolysis and kinetic study of ethanol and DME inside a shock tube. ○
- 3 Quantitative evaluation of several chemical mechanisms for gasoline surrogate-ethanol blends and study of dominant chemistry under super-knock relevant conditions. **2023**, 334, 126627 ○
- 2 Reduced ethanol skeleton mechanism for multi-dimensional engine simulation. **2023**, 106, 101147 ○
- 1 Analysis of methyl pentanoate/air mixtures spherically expanding flame intrinsic instabilities. **2023**, 340, 127532 ○