

Zuohua Huang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

485
papers

16,726
citations

65
h-index

102
g-index

501
ext. papers

19,262
ext. citations

5.2
avg, IF

7.01
L-index

#	Paper	IF	Citations
485	Experimental and chemical kinetic study on the low temperature oxidation of 1,3-butadiene in a jet-stirred reactor. <i>Fuel</i> , 2022 , 315, 123168	7.1	0
484	Biphasic sensitization effect of NO ₂ on n-C ₄ H ₁₀ auto-ignition. <i>Combustion and Flame</i> , 2022 , 237, 111844	5.3	2
483	Experimental and kinetic study on laminar flame speeds of ammonia/dimethyl ether/air under high temperature and elevated pressure. <i>Combustion and Flame</i> , 2022 , 238, 111915	5.3	3
482	Experimental study on structure and blow-off characteristics of NH ₃ /CH ₄ co-firing flames in a swirl combustor. <i>Fuel</i> , 2022 , 314, 123027	7.1	1
481	Liquid hot water as sustainable biomass pretreatment technique for bioenergy production: A review. <i>Bioresource Technology</i> , 2022 , 344, 126207	11	25
480	A data fusion approach with high spatiotemporal resolution for wall temperature measurement upon jet impingement. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 183, 122084	4.9	1
479	An experimental and kinetic modeling study on the low-temperature oxidation, ignition delay time, and laminar flame speed of a surrogate fuel for RP-3 kerosene. <i>Combustion and Flame</i> , 2022 , 237, 111821	5.3	1
478	Catalyst-Based Synthesis of 2,5-Dimethylfuran from Carbohydrates as a Sustainable Biofuel Production Route. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 3079-3115	8.3	8
477	Loading ferric lignin on polyethylene film and its influence on arsenic-polluted soil and growth of romaine lettuce plant.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	0
476	A Study on the Effect of Initial Temperature on Combustion Characteristics of RDX Based on the Optical Diagnosis Methods. <i>Energies</i> , 2022 , 15, 2421	3.1	1
475	Effect of confinement ratio on flame structure and blow-off characteristics of swirl flames. <i>Experimental Thermal and Fluid Science</i> , 2022 , 135, 110630	3	1
474	Effects of flow-flame interactions on the stabilization of ultra-lean swirling CH ₄ /H ₂ /air flames. <i>Fuel</i> , 2022 , 319, 123619	7.1	0
473	Experimental and model investigation of the low temperature oxidation and pyrolysis of 2-methyl-2-butene in a jet-stirred reactor. <i>Combustion and Flame</i> , 2022 , 242, 112174	5.3	
472	Measurement and scaling of turbulent burning velocity of ammonia/methane/air propagating spherical flames at elevated pressure. <i>Combustion and Flame</i> , 2022 , 242, 112183	5.3	0
471	Experimental and chemical kinetic study on the laminar flame characteristics of the blends of n-propanol and isooctane at elevated temperature and pressure. <i>Fuel</i> , 2022 , 324, 124680	7.1	
470	Experimental and kinetic study on low temperature oxidation and pyrolysis of iso-octane and gasoline. <i>Fuel</i> , 2021 , 310, 122483	7.1	1
469	Shock Wave Propagation and Flame Kernel Morphology in Laser-Induced Plasma Ignition of CH ₄ /O ₂ /N ₂ Mixture. <i>Energies</i> , 2021 , 14, 7976	3.1	0

468	Experimental Study on Ignition Characteristics of RP-3 Jet Fuel Using Nanosecond Pulsed Plasma Discharge. <i>Energies</i> , 2021 , 14, 6463	3.1	1
467	Effect of Rotating Gliding Arc Plasma on Lean Blow-Off Limit and Flame Structure of Bluff Body and Swirl-Stabilized Premixed Flames. <i>IEEE Transactions on Plasma Science</i> , 2021 , 1-12	1.3	0
466	Planar laser-induced fluorescence thermometry in moderate-temperature flow using OH from photo-dissociation of water vapor. <i>Experiments in Fluids</i> , 2021 , 62, 1	2.5	1
465	Understanding the antagonistic effect of methanol as a component in surrogate fuel models: A case study of methanol/n-heptane mixtures. <i>Combustion and Flame</i> , 2021 , 226, 229-242	5.3	31
464	Formation of Polysulfone Hollow Fiber Membranes Using the Systems with Lower Critical Solution Temperature. <i>Fibers</i> , 2021 , 9, 28	3.7	4
463	Large eddy simulation of the Cambridge/Sandia stratified flame with flamelet-generated manifolds: Effects of non-unity Lewis numbers and stretch. <i>Combustion and Flame</i> , 2021 , 227, 106-119	5.3	6
462	Effect of high hydrogen enrichment on the outer-shear-layer flame of confined lean premixed CH ₄ /H ₂ /air swirl flames. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 17969-17981	6.7	6
461	Theoretical Study of an Undisclosed Reaction Class: Direct H-Atom Abstraction from Allylic Radicals by Molecular Oxygen. <i>Energies</i> , 2021 , 14, 2916	3.1	1
460	Emission analysis of the CH ₄ /NH ₃ /air co-firing fuels in a model combustor. <i>Fuel</i> , 2021 , 291, 120135	7.1	14
459	The regulation effect of methane and hydrogen on the emission characteristics of ammonia/air combustion in a model combustor. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 21013-21025	6.7	12
458	Effect of DME addition on turbulent flame structure in lean premixed CH ₄ /DME/air mixtures. <i>Fuel</i> , 2021 , 294, 120443	7.1	2
457	Effect of hydrogen blending on the high temperature auto-ignition of ammonia at elevated pressure. <i>Fuel</i> , 2021 , 287, 119563	7.1	28
456	A kinetics and dynamics study on the auto-ignition of dimethyl ether at low temperatures and low pressures. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 601-609	5.9	6
455	Experimental and kinetic study on the low temperature oxidation and pyrolysis of formic acid in a jet-stirred reactor. <i>Combustion and Flame</i> , 2021 , 223, 77-87	5.3	7
454	Experimental study of compact swirl flames with lean premixed CH ₄ /H ₂ /air mixtures at stable and near blow-off conditions. <i>Experimental Thermal and Fluid Science</i> , 2021 , 122, 110294	3	7
453	Effect of hydrogen enrichment on flame broadening of turbulent premixed flames in thin reaction regime. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 1210-1218	6.7	5
452	Experimental study on the droplet characteristics in the spray tip region: Comparison between the free and impinging spray. <i>Experimental Thermal and Fluid Science</i> , 2021 , 121, 110288	3	6
451	Effects of CO/H ₂ /N ₂ addition on the soot morphology and nanostructure in laminar co-flow ethylene diffusion flame. <i>Journal of the Energy Institute</i> , 2021 , 95, 8-17	5.7	5

450	Direct numerical simulation of DME auto-ignition with temperature and composition stratification under HCCI engine conditions. <i>Fuel</i> , 2021 , 285, 119073	7.1	6
449	The auto-ignition behaviors of HMX/NC/NG stimulated by heating in a rapid compression machine. <i>Fuel</i> , 2021 , 288, 119693	7.1	2
448	The blow-off and transient characteristics of co-firing ammonia/methane fuels in a swirl combustor. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 5181-5190	5.9	11
447	POD Scale Analysis of Turbulent Premixed Flame Structure at Elevated Pressures. <i>Combustion Science and Technology</i> , 2021 , 193, 944-966	1.5	0
446	Rapid determination of trace Cu by an in-syringe membrane SPE and membrane solid-phase spectral technique. <i>Analytical Methods</i> , 2021 , 13, 4691-4698	3.2	0
445	Theoretical studies on the initial reaction kinetics and mechanisms of -, - and -nitrotoluene. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 4658-4668	3.6	1
444	Study on pressure oscillation characteristics in a constant volume bomb. <i>Combustion and Flame</i> , 2021 , 229, 111387	5.3	1
443	Flame structure, turbulent burning velocity and its unified scaling for lean syngas/air turbulent expanding flames. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 25699-25711	6.7	7
442	Rate coefficients for 1,2-dimethyl-allyl + HO ₂ /O ₂ and the implications for 2-methyl-2-butene combustion. <i>Combustion and Flame</i> , 2021 , 230, 111433	5.3	3
441	Large eddy simulation on flame topologies and the blow-off characteristics of ammonia/air flame in a model gas turbine combustor. <i>Fuel</i> , 2021 , 298, 120846	7.1	9
440	Hierarchical Auto-Ignition and Structure-Reactivity Trends of C ₂ H ₄ 1-Alkenes. <i>Energies</i> , 2021 , 14, 5797	3.1	1
439	Energy, exergy and economic analyses and performance assessment of a trigeneration system for power, freshwater and heat based on supercritical water oxidation and organic Rankine cycle. <i>Energy Conversion and Management</i> , 2021 , 243, 114395	10.6	14
438	Pd nanoparticles supported on CeO ₂ nanospheres as efficient catalysts for dehydrogenation from additive-free formic acid at low temperature. <i>Fuel</i> , 2021 , 302, 121142	7.1	8
437	Emission prediction and analysis on CH ₄ /NH ₃ /air swirl flames with LES-FGM method. <i>Fuel</i> , 2021 , 304, 121370	7.1	5
436	The auto-ignition behaviors and risk assessments of double-base propellant containing different 1,1-diamino-2,2-dinitroethene particle sizes under rapid heating. <i>Combustion and Flame</i> , 2021 , 234, 111627	5.3	0
435	Turbulent burning velocity and its unified scaling of butanol isomers/air mixtures. <i>Fuel</i> , 2021 , 306, 121738	7.1	3
434	Propagation of Darrieus-Landau unstable laminar and turbulent expanding flames. <i>Proceedings of the Combustion Institute</i> , 2021 , 38, 2013-2021	5.9	4
433	Kinetic modeling investigation on the coupling effects of H ₂ and CO ₂ addition on the laminar flame speed of hydrogen enriched biogas mixture. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 27891-27903	6.7	7

432	Effect of differential diffusion on turbulent lean premixed hydrogen enriched flames through structure analysis. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10920-10931	6.7	10
431	A Systematic Theoretical Kinetics Analysis for the Waddington Mechanism in the Low-Temperature Oxidation of Butene and Butanol Isomers. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 5646-5656	2.8	6
430	Evaluation of non-ideal piston stopping effects on the adiabatic core and ignition delay time simulation in rapid compression machines. <i>Combustion and Flame</i> , 2020 , 218, 229-233	5.3	0
429	On transition to self-similar acceleration of spherically expanding flames with cellular instabilities. <i>Combustion and Flame</i> , 2020 , 215, 364-375	5.3	17
428	Experimental and kinetic study on laminar flame speeds of formic acid. <i>Combustion and Flame</i> , 2020 , 220, 73-81	5.3	7
427	Spreading and bouncing of liquid alkane droplets upon impacting on a heated surface. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 159, 120076	4.9	6
426	Effects of unburned gases velocity on the CO/NO ₂ /NO _x formations and overall emissions of laminar premixed biogas-hydrogen impinging flame. <i>Energy</i> , 2020 , 196, 117146	7.9	5
425	Water impact on the auto-ignition of kerosene/air mixtures under combustor relevant conditions. <i>Fuel</i> , 2020 , 267, 117184	7.1	8
424	Formations and emissions of CO/NO ₂ /NO _x in the laminar premixed biogas-hydrogen flame undergoing the flame-wall interaction: Effects of the variable CO ₂ proportion. <i>Fuel</i> , 2020 , 276, 118096	7.1	14
423	Self-similar propagation and turbulent burning velocity of CH ₄ /H ₂ /air expanding flames: Effect of Lewis number. <i>Combustion and Flame</i> , 2020 , 212, 1-12	5.3	27
422	Pressure-dependent kinetics on benzoyl radical + O ₂ and its implications for low temperature oxidation of benzaldehyde. <i>Combustion and Flame</i> , 2020 , 214, 139-151	5.3	5
421	Ignition delay time measurement and kinetic modeling of furan, and comparative studies of 2,3-dihydrofuran and tetrahydrofuran at low to intermediate temperatures by using a rapid compression machine. <i>Combustion and Flame</i> , 2020 , 213, 226-236	5.3	12
420	Turbulent flame structure characteristics of hydrogen enriched natural gas with CO ₂ dilution. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 20426-20435	6.7	13
419	Flame dynamics analysis of highly hydrogen-enrichment premixed turbulent combustion. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 1072-1083	6.7	9
418	Nitromethane pyrolysis and oxidation in a jet-stirred reactor: Experimental measurements, kinetic model validation and interpretation. <i>Fuel</i> , 2020 , 263, 116491	7.1	2
417	Deep insights of HCNG engine research in China. <i>Fuel</i> , 2020 , 263, 116612	7.1	17
416	Experimental and kinetic study of laminar flame characteristics of H ₂ /O ₂ /diluent flame under elevated pressure. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 32508-32520	6.7	5
415	Effect of hydrogen enrichment on swirl/bluff-body lean premixed flame stabilization. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10906-10919	6.7	17

4 ¹⁴	Theoretical kinetics of hydrogen abstraction and hydroperoxyl addition reactions of 3-hexene by hydroperoxyl radicals. <i>Fuel</i> , 2020 , 277, 118191	7.1	2
4 ¹³	Effect of hydrogen enrichment on the auto-ignition of lean n-pentane/Hydrogen mixtures at elevated pressure. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 31105-31117	6.7	3
4 ¹²	The auto-ignition boundary of ethylene/nitrous oxide as a promising monopropellant. <i>Combustion and Flame</i> , 2020 , 221, 64-73	5.3	6
4 ¹¹	Velocimetry and thermometry in intermediate temperature flow using planar laser-induced fluorescence of OH from photo-dissociation of H ₂ O. <i>Experiments in Fluids</i> , 2020 , 61, 1	2.5	2
4 ¹⁰	Kinetic Study on the Isomerization and Decomposition of the Alkenyl Radicals of 2,4,4-Trimethyl-1-pentene. <i>Energy & Fuels</i> , 2020 , 34, 14757-14767	4.1	3
4 ⁰⁹	Measurements of the High Temperature Ignition Delay Times and Kinetic Modeling Study on Oxidation of Nitromethane. <i>Combustion Science and Technology</i> , 2020 , 192, 313-334	1.5	2
4 ⁰⁸	Effects of H ₂ addition on the formation and emissions of CO/NO ₂ /NO _x in the laminar premixed biogas-hydrogen flame undergoing the flame-wall interaction. <i>Fuel</i> , 2020 , 259, 116257	7.1	13
4 ⁰⁷	Explosion characteristics of bio-syngas at various fuel compositions and dilutions in a confined vessel. <i>Fuel</i> , 2020 , 259, 116254	7.1	13
4 ⁰⁶	The spray vaporization characteristics of gasoline/diethyl ether blends at sub-and super-critical conditions. <i>Applied Thermal Engineering</i> , 2020 , 164, 114453	5.8	8
4 ⁰⁵	Subpatterns of Thin-Sheet Splash on a Smooth Surface. <i>Langmuir</i> , 2020 , 36, 4917-4922	4	2
4 ⁰⁴	Experimental study on the explosion characteristics of methylcyclohexane/toluene-air mixtures with methanol addition at elevated temperatures. <i>Chemical Engineering Research and Design</i> , 2019 , 132, 126-133	5.5	11
4 ⁰³	Non-monotonic behavior of flame instability of 1,3-butadiene/O ₂ /He mixture up to 1.5 MPa. <i>Fuel</i> , 2019 , 255, 115749	7.1	5
4 ⁰²	Experimental and numerical study on laminar burning velocity of gasoline and gasoline surrogates. <i>Fuel</i> , 2019 , 256, 115933	7.1	24
4 ⁰¹	Network topology of turbulent premixed Bunsen flame at elevated pressure and turbulence intensity. <i>Aerospace Science and Technology</i> , 2019 , 94, 105361	4.9	6
4 ⁰⁰	Sensitivity analysis of operation parameters on the system performance of organic rankine cycle system using orthogonal experiment. <i>Energy</i> , 2019 , 172, 435-442	7.9	30
399	Flame brush thickness of lean turbulent premixed Bunsen flame and the memory effect on its development. <i>Fuel</i> , 2019 , 242, 607-616	7.1	10
398	Effect of hydrogen enrichment and electric field on lean CH ₄ /air flame propagation at elevated pressure. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15962-15972	6.7	8
397	Experimental and kinetic study of diisobutylene isomers in laminar flames. <i>Energy</i> , 2019 , 170, 537-545	7.9	5

396	Low to intermediate temperature oxidation studies of dimethoxymethane/n-heptane blends in a jet-stirred reactor. <i>Combustion and Flame</i> , 2019 , 207, 20-35	5.3	12
395	Explosion characteristics of cyclic hydrocarbon-air mixtures at elevated temperature and pressures. <i>Fuel</i> , 2019 , 253, 1048-1055	7.1	9
394	Flame front identification and its effect on turbulent premixed flames topology at high pressure. <i>Experimental Thermal and Fluid Science</i> , 2019 , 107, 107-117	3	6
393	Effect of hydrogen ratio on turbulent flame structure of oxyfuel syngas at high pressure up to 1.0MPa. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 11185-11193	6.7	10
392	Auto-ignition behaviors of nitromethane in diluted oxygen in a rapid compression machine: Critical conditions for ignition, ignition delay times measurements, and kinetic modeling interpretation. <i>Journal of Hazardous Materials</i> , 2019 , 377, 52-61	12.8	5
391	Darrieus-Landau instability effect on the flame topology and brush thickness for premixed turbulent flames. <i>Applied Thermal Engineering</i> , 2019 , 158, 113603	5.8	2
390	A numerical study of the heat transfer of an impinging round-jet methane Bunsen flame. <i>Fuel</i> , 2019 , 251, 730-738	7.1	9
389	On the role of liquid viscosity in affecting droplet spreading on a smooth solid surface. <i>International Journal of Multiphase Flow</i> , 2019 , 117, 53-63	3.6	19
388	Low temperature auto-ignition characteristics of methylcyclohexane/ethanol blend fuels: Ignition delay time measurement and kinetic analysis. <i>Energy</i> , 2019 , 177, 465-475	7.9	17
387	Promoting δ adiabatic core approximation in a rapid compression machine by an optimized creviced piston design. <i>Fuel</i> , 2019 , 251, 328-340	7.1	11
386	Effects of diluents on laminar burning characteristics of bio-syngas at elevated pressure. <i>Fuel</i> , 2019 , 248, 8-15	7.1	18
385	Effect of 2,5-dimethylfuran addition on ignition delay times of n-heptane at high temperatures. <i>Frontiers in Energy</i> , 2019 , 13, 464-473	2.6	11
384	Experimental and kinetic study on laminar burning velocities of 1,3-butadiene at pressures up to 1.5 MPa. <i>Fuel</i> , 2019 , 246, 222-231	7.1	5
383	Comparative study on the laminar flame speeds of methylcyclohexane-methanol and toluene-methanol blends at elevated temperatures. <i>Fuel</i> , 2019 , 245, 534-543	7.1	10
382	Experimental and kinetic study on laminar flame speeds of hexene isomers and n-hexane. <i>Fuel</i> , 2019 , 243, 533-540	7.1	7
381	Experimental and kinetic study of 2,4,4-trimethyl-1-pentene and iso-octane in laminar flames. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 1709-1716	5.9	17
380	Towards a kinetic understanding of the NO _x sensitization effect on unsaturation hydrocarbons: A case study of ethylene/nitrogen dioxide mixtures. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 719-726	5.9	11
379	Morphology of wrinkles along the surface of turbulent Bunsen flames Their amplification and advection due to the Darrieus-Landau instability. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 2335-2343	5.9	7

378	Effects of shear inhomogeneities on the structure of turbulent premixed flames. <i>Combustion and Flame</i> , 2019 , 208, 63-78	5.3	6
377	Comprehensive experimental and kinetic study of 2,4,4-trimethyl-1-pentene oxidation. <i>Combustion and Flame</i> , 2019 , 208, 246-261	5.3	9
376	Explosion behavior predictions of syngas/air mixtures with dilutions at elevated pressures: Explosion and intrinsic flame instability parameters. <i>Fuel</i> , 2019 , 255, 115724	7.1	35
375	Investigation on bluff-body and swirl stabilized flames near lean blowoff with PIV/PLIF measurements and LES modelling. <i>Applied Thermal Engineering</i> , 2019 , 160, 114021	5.8	12
374	Experimental and numerical study on the laminar burning velocity of hydrogen enriched biogas mixture. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 22240-22249	6.7	25
373	Development of a turbulence scale controllable burner and turbulent flame structure analysis. <i>Experimental Thermal and Fluid Science</i> , 2019 , 109, 109898	3	5
372	Onset of cellular instability and self-acceleration propagation of syngas spherically expanding flames at elevated pressures. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 27995-28006	6.7	21
371	Measurements on flame structure of bluff body and swirl stabilized premixed flames close to blow-off. <i>Experimental Thermal and Fluid Science</i> , 2019 , 104, 15-25	3	30
370	Experimental and kinetic modeling study of laminar flame characteristics of higher mixed alcohols. <i>Fuel Processing Technology</i> , 2019 , 188, 30-42	7.2	15
369	Experimental and Numerical Study on Autoignition Characteristics of the Polyoxymethylene Dimethyl Ether/Diesel Blends. <i>Energy & Fuels</i> , 2019 , 33, 2538-2546	4.1	14
368	Transient response of waste heat recovery system for hydrogen production and other renewable energy utilization. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15985-15996	6.7	9
367	Combustion characteristics of natural gas injected into a constant volume vessel. <i>Fuel</i> , 2019 , 235, 1146-1158	7.5	25
366	An experimental comparative study of the stabilization mechanism of biogas-hydrogen diffusion flame. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 1988-1997	6.7	10
365	Effects of Integral Scale on Darrieus-Andau Instability in Turbulent Premixed Flames. <i>Flow, Turbulence and Combustion</i> , 2019 , 103, 225-246	2.5	8
364	Low temperature ignition delay times measurements of 1,3,5-trimethylbenzene by rapid compression machine. <i>Fuel</i> , 2019 , 241, 637-645	7.1	7
363	Time-resolved droplet size and velocity distributions in a dilute region of a high-pressure pulsed diesel spray. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 133, 745-755	4.9	19
362	Chemical Kinetics of H-Atom Abstraction from Ethanol by H ₂ Implication for Combustion Modeling. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 971-982	2.8	13
361	Effects of fuel composition and initial pressure on laminar flame speed of H ₂ /CO/CH ₄ bio-syngas. <i>Fuel</i> , 2019 , 238, 149-158	7.1	33

360	Ab initio calculation for isomerization reaction kinetics of nitrobenzene isomers. <i>Chemical Physics Letters</i> , 2019 , 715, 244-251	2.5	3
359	Effect of equivalence ratio on combustion and emissions of a dual-fuel natural gas engine ignited with diesel. <i>Applied Thermal Engineering</i> , 2019 , 146, 738-751	5.8	75
358	Turbulent flame topology and the wrinkled structure characteristics of high pressure syngas flames up to 1.0 MPa. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15973-15984	6.7	8
357	Kinetics of H abstraction and addition reactions of 2,4,4-trimethyl-2-pentene by OH radical. <i>Chemical Physics Letters</i> , 2018 , 696, 125-134	2.5	10
356	Experimental study on impingement spray and near-field spray characteristics under high-pressure cross-flow conditions. <i>Fuel</i> , 2018 , 218, 12-22	7.1	24
355	Ignition Delay Characteristics and Kinetic Investigation of Dimethyl Ether/n-Pentane Binary Mixtures: Interpreting the Effect of the Equivalence Ratio and Dimethyl Ether Blending. <i>Energy & Fuels</i> , 2018 , 32, 3814-3823	4.1	15
354	Laminar Flame Characteristics and Kinetic Modeling Study of Ethyl Tertiary Butyl Ether Compared with Methyl Tertiary Butyl Ether, Ethanol, iso-Octane, and Gasoline. <i>Energy & Fuels</i> , 2018 , 32, 3935-3949	4.1	15
353	Investigation on the highly negative curved syngas Bunsen flame and the critical local Karlovitz number when tip opening. <i>Fuel</i> , 2018 , 215, 429-437	7.1	6
352	Shock-Tube Study of the Autoignition of n-Butane/Hydrogen Mixtures. <i>Energy & Fuels</i> , 2018 , 32, 809-821	4.1	16
351	Measurements and kinetic study on the ignition delay time of dimethyl carbonate/n-heptane/oxygen/argon mixtures. <i>Combustion Science and Technology</i> , 2018 , 190, 933-948	1.5	8
350	Investigation of the Heat Loss Effect on Cellular Flames via Proper Orthogonal Decomposition. <i>Combustion Science and Technology</i> , 2018 , 190, 803-822	1.5	2
349	Experimental investigation on effect of ethanol and di-ethyl ether addition on the spray characteristics of diesel/biodiesel blends under high injection pressure. <i>Fuel</i> , 2018 , 218, 1-11	7.1	44
348	The ignition process measurements and performance evaluations for hypergolic ionic liquid fuels: [EMIm][DCA] and [BMIm][DCA]. <i>Fuel</i> , 2018 , 215, 612-618	7.1	20
347	Investigation of the fuel effects on burning velocity and flame structure of turbulent premixed flames based on leading points concept. <i>Combustion Science and Technology</i> , 2018 , 190, 1354-1376	1.5	16
346	Experimental Observation of Hypergolic Ignition of Superbase-Derived Ionic Liquids. <i>Journal of Propulsion and Power</i> , 2018 , 34, 125-132	1.8	9
345	Ignition delay times measurement and kinetic modeling studies of 1-heptene, 2-heptene and n-heptane at low to intermediate temperatures by using a rapid compression machine. <i>Combustion and Flame</i> , 2018 , 197, 30-40	5.3	21
344	A comparison study of cyclopentane and cyclohexane laminar flame speeds at elevated pressures and temperatures. <i>Fuel</i> , 2018 , 234, 238-246	7.1	10
343	Effect of DC electric field on laminar premixed spherical propagation flame at elevated pressures up to 0.5 MPa. <i>Combustion Science and Technology</i> , 2018 , 190, 1900-1922	1.5	5

342	Flame morphology and self-acceleration of syngas spherically expanding flames. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 17531-17541	6.7	35
341	One-pot preparation of MnO impregnated cotton fibers for methylene blue dye removal.. <i>RSC Advances</i> , 2018 , 8, 21577-21584	3.7	8
340	A comprehensive review on laminar spherically premixed flame propagation of syngas. <i>Fuel Processing Technology</i> , 2018 , 181, 97-114	7.2	36
339	Theoretical Study of Abstraction and Addition Reactions of 2,4,4-Trimethyl-1-pentene with H and O(3P) Radical. <i>Energy & Fuels</i> , 2018 , 32, 11831-11842	4.1	3
338	An experimental and chemical kinetic modeling study of 1,3-butadiene combustion: Ignition delay time and laminar flame speed measurements. <i>Combustion and Flame</i> , 2018 , 197, 423-438	5.3	24 ⁰
337	Theoretical kinetics of hydrogen abstraction and addition reactions of 3-hexene by H, (BP) and H ₂ O. <i>Combustion and Flame</i> , 2018 , 197, 449-462	5.3	3
336	Coulomb explosion and ultra-fast hypergolic ignition of borohydride-rich ionic liquids with WFNA. <i>Combustion and Flame</i> , 2018 , 194, 464-471	5.3	18
335	Numerical simulation of premixed combustion using the modified dynamic thickened flame model coupled with multi-step reaction mechanism. <i>Fuel</i> , 2018 , 233, 346-353	7.1	15
334	High temperature ignition delay time of DME/n-pentane mixture under fuel lean condition. <i>Fuel</i> , 2017 , 191, 77-86	7.1	31
333	Experimental and numerical study on the emission characteristics of laminar premixed biogas-hydrogen impinging flame. <i>Fuel</i> , 2017 , 195, 1-11	7.1	17
332	Kinetics of Hydrogen Abstraction and Addition Reactions of 3-Hexene by H Radicals. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 1877-1889	2.8	18
331	Experimental and kinetic modeling study on 2,4,4-trimethyl-1-pentene ignition behind reflected shock waves. <i>Fuel</i> , 2017 , 195, 97-104	7.1	20
330	Experimental and kinetic study on ignition delay times of lean n-butane/hydrogen/argon mixtures at elevated pressures. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 12645-12656	6.7	22
329	Shock tube measurement and simulation of DME/n-butane/air mixtures: Effect of blending in the NTC region. <i>Fuel</i> , 2017 , 203, 316-329	7.1	31
328	Experimental study on the effect of injector nozzle K factor on the spray characteristics in a constant volume chamber: Near nozzle spray initiation, the macroscopic and the droplet statistics. <i>Fuel</i> , 2017 , 202, 583-594	7.1	17
327	High-temperature oxidation kinetics of iso-octane/n-butanol blends-air mixture. <i>Energy</i> , 2017 , 133, 443-454	7.5	10
326	Single-valued prediction of markers on heat release rate for laminar premixed biogas-hydrogen and methane-hydrogen flames. <i>Energy</i> , 2017 , 133, 35-45	7.9	9
325	Effect of Lewis Number on Nonlinear Extrapolation Methods from Expanding Spherical Flames. <i>Combustion Science and Technology</i> , 2017 , 189, 1510-1526	1.5	11

324	Effect of di-n-butyl ether blending with soybean-biodiesel on the near-nozzle spray characteristics. <i>Fuel</i> , 2017 , 191, 300-311	7.1	17
323	Comparative Study of the Effects of Nitrous Oxide and Oxygen on Ethylene Ignition. <i>Energy & Fuels</i> , 2017 , 31, 14116-14128	4.1	11
322	Kinetics of H abstraction and addition reactions of 2,4,4-trimethyl-1-pentene by OH radical. <i>Fuel</i> , 2017 , 210, 646-658	7.1	18
321	Effects of Initiation Radius Selection and Lewis Number on Extraction of Laminar Burning Velocities from Spherically Expanding Flames. <i>Combustion Science and Technology</i> , 2017 , 1-26	1.5	
320	The effect of pentanol addition on the particulate emission characteristics of a biodiesel operated diesel engine. <i>Fuel</i> , 2017 , 209, 132-140	7.1	46
319	Non-monotonic behaviors of laminar burning velocities of H ₂ /O ₂ /He mixtures at elevated pressures and temperatures. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22036-22045	6.7	13
318	Ab initio calculation and kinetic modeling study of diethyl ether ignition with application toward a skeletal mechanism for CI engine modeling. <i>Fuel</i> , 2017 , 209, 509-520	7.1	27
317	Dynamics of droplet impact on solid surface with different roughness. <i>International Journal of Multiphase Flow</i> , 2017 , 96, 56-69	3.6	103
316	An ignition delay time and chemical kinetic study of ethane sensitized by nitrogen dioxide. <i>Fuel</i> , 2017 , 207, 389-401	7.1	16
315	Ignition delay times of low alkylfurans at high pressures using a rapid compression machine. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 323-332	5.9	16
314	Experimental and modeling study on ignition delay times of dimethoxy methane/ n -heptane blends. <i>Fuel</i> , 2017 , 189, 350-357	7.1	38
313	Explosion characteristics of n-butanol/iso-octane-air mixtures. <i>Fuel</i> , 2017 , 188, 90-97	7.1	29
312	Experimental and kinetic study of pentene isomers and n-pentane in laminar flames. <i>Proceedings of the Combustion Institute</i> , 2017 , 36, 1279-1286	5.9	42
311	Assessing the Predictions of A NO _x Kinetic Mechanism on Recent Hydrogen and Syngas Experimental Data. <i>The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines</i> , 2017 , 2017.9, A307		
310	Experimental and Kinetic Study on Ignition Delay Times of 2,5-DMF/n-Heptane Blends. <i>The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines</i> , 2017 , 2017.9, A301		
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308	Combustion characteristic and heating performance of stoichiometric biogasHydrogenAir flame. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 807-814	4.9	18
307	Experimental and kinetic study on laminar flame speeds of styrene and ethylbenzene. <i>Fuel</i> , 2016 , 185, 916-924	7.1	19

306	A study on the effects of air preheat on the combustion and heat transfer characteristics of Bunsen flames. <i>Fuel</i> , 2016 , 184, 50-58	7.1	9
305	Experimental investigation on the effect of n-butanol blending on spray characteristics of soybean biodiesel in a common-rail fuel injection system. <i>Fuel</i> , 2016 , 182, 391-401	7.1	71
304	Shock tube study on ignition delay of hydrogen and evaluation of various kinetic models. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 13261-13280	6.7	19
303	Effect of H ₂ addition on OH distribution of LPG/Air circumferential inverse diffusion flame. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 9653-9663	6.7	24
302	Experimental and Kinetic Modeling Study on trans-3-Hexene Ignition behind Reflected Shock Waves. <i>Energy & Fuels</i> , 2016 , 30, 706-716	4.1	14
301	Shock Tube Study on Propanal Ignition and the Comparison to Propane, n-Propanol, and i-Propanol. <i>Energy & Fuels</i> , 2016 , 30, 717-724	4.1	19
300	Comparative Study on Ignition Characteristics of 1-Hexene and 2-Hexene Behind Reflected Shock Waves. <i>Energy & Fuels</i> , 2016 , 30, 5130-5137	4.1	18
299	Ignition Delay Time and Chemical Kinetic Study of Methane and Nitrous Oxide Mixtures at High Temperatures. <i>Energy & Fuels</i> , 2016 ,	4.1	7
298	Experimental and kinetic comparative study on ignition characteristics of 1-pentene and n-pentane. <i>Fuel</i> , 2016 , 172, 263-272	7.1	34
297	Emission of impinging biogas/air premixed flame with hydrogen enrichment. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 2087-2095	6.7	12
296	Effect of H ₂ O Addition on the Flame Front Evolution of Syngas Spherical Propagation Flames. <i>Combustion Science and Technology</i> , 2016 , 188, 1054-1072	1.5	33
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289	Influence of engine load and speed on regulated and unregulated emissions of a diesel engine fueled with diesel fuel blended with waste cooking oil biodiesel. <i>Fuel</i> , 2016 , 180, 41-49	7.1	101

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285	Self-acceleration of cellular flames and laminar flame speed of syngas/air mixtures at elevated pressures. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 18250-18258	6.7	70
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283	Laminar flame characteristics and kinetic modeling study of methanol-isooctane blends at elevated temperatures. <i>Fuel</i> , 2016 , 184, 836-845	7.1	26
282	Experimental investigation on spray and atomization characteristics of diesel/gasoline/ethanol blends in high pressure common rail injection system. <i>Energy</i> , 2016 , 112, 549-561	7.9	56
281	Effects of oxygen enrichment on laminar burning velocities and Markstein lengths of CH ₄ /O ₂ /N ₂ flames at elevated pressures. <i>Fuel</i> , 2016 , 184, 466-473	7.1	38
280	Development and validation of a reduced chemical kinetic model for dimethyl ether combustion. <i>Fuel</i> , 2015 , 160, 165-177	7.1	30
279	Burning velocity and statistical flame front structure of turbulent premixed flames at high pressure up to 1.0 MPa. <i>Experimental Thermal and Fluid Science</i> , 2015 , 68, 196-204	3	29
278	Experimental Study on Ethane Ignition Delay Times and Evaluation of Chemical Kinetic Models. <i>Energy & Fuels</i> , 2015 , 29, 4557-4566	4.1	21
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276	Comparative assessment of the explosion characteristics of alcohol/air mixtures. <i>Journal of Loss Prevention in the Process Industries</i> , 2015 , 37, 91-100	3.5	25
275	Shock Tube Measurements and Kinetic Study of Methyl Acetate Ignition. <i>Energy & Fuels</i> , 2015 , 29, 2719-2728	4.1	14
274	Kinetic modeling study of hydrogen addition effects on ignition characteristics of dimethyl ether at engine-relevant conditions. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 5221-5235	6.7	22
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272	Experimental and Kinetic Study on Ignition Delay Times of Dimethyl Ether at High Temperatures. <i>Energy & Fuels</i> , 2015 , 29, 3495-3506	4.1	19
271	A high pressure shock tube study of 1-butene oxidation and its comparison with n-butane and alkenes. <i>Fuel</i> , 2015 , 157, 21-27	7.1	22

270	Comparative Study on Autoignition Characteristics of Methylcyclohexane and Cyclohexane. <i>Energy & Fuels</i> , 2015 , 29, 2685-2695	4.1	19
269	Laminar Flame Speeds and Kinetic Modeling of n-Pentanol and Its Isomers. <i>Energy & Fuels</i> , 2015 , 29, 5334-5348	4.1	37
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267	Experimental and kinetic study on ignition delay times of dimethyl carbonate at high temperature. <i>Fuel</i> , 2015 , 140, 626-632	7.1	24
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257	Comparative Study of High-Alcohol-Content Gasoline Blends in an SI Engine 2015 ,		30
256	Experimental and Kinetic Study on Ignition Delay Times of Diethyl Ether. <i>SAE International Journal of Fuels and Lubricants</i> , 2015 , 8, 111-118	1.8	8
255	Specific Heat Ratio of High Methane Fraction Natural Gas/Air in Confined Vessel 2015 ,		1
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253	Laminar flame speeds and ignition delay times of methane-air mixtures at elevated temperatures and pressures. <i>Fuel</i> , 2015 , 158, 1-10	7.1	151

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250	Effects of stretch and preferential diffusion on tip opening of laminar premixed Bunsen flames of syngas/air mixtures. <i>Fuel</i> , 2015 , 148, 1-8	7.1	23
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239	Laminar burning velocities, Markstein lengths, and flame thickness of liquefied petroleum gas with hydrogen enrichment. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 13020-13030	6.7	28
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210	Laminar Flame Characteristics of iso-Octane/n-Butanol Blend/Air Mixtures at Elevated Temperatures. <i>Energy & Fuels</i> , 2013 , 27, 2327-2335	4.1	51
209	Flame front characteristics of turbulent premixed flames diluted with CO ₂ and H ₂ O at high pressure and high temperature. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 1429-1436	5.9	35
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206	Study on laminar flame speed and flame structure of syngas with varied compositions using OH-PLIF and spectrograph. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1636-1643	6.7	88
205	Measurements and kinetic study on ignition delay times of propane/hydrogen in argon diluted oxygen. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2523-2530	6.7	26
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194	Shock-Tube Measurements of Ignition Delay Times for the Ethane/Dimethyl Ether Blends. <i>Energy & Fuels</i> , 2013 , 27, 6247-6254	4.1	20
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33	Correlations for laminar burning velocities of liquefied petroleum gas/air mixtures. <i>Energy Conversion and Management</i> , 2005 , 46, 3175-3184	10.6	21
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31	Experimental and numerical study of high-pressure-swirl injector sprays in a direct injection gasoline engine. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2005 , 219, 617-629	1.6	16
30	Combustion characteristics and heat release analysis of a compression ignition engine operating on a diesel/methanol blend. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2004 , 218, 1011-1024	1.4	48
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28	Measurements of Markstein numbers and laminar burning velocities for liquefied petroleum gas/air mixtures. <i>Fuel</i> , 2004 , 83, 1281-1288	7.1	42
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20	Basic characteristics of direct injection combustion fuelled with compressed natural gas and gasoline using a rapid compression machine. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2003 , 217, 1031-1038	1.4	5
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11	Technical Note: Combustion characteristics and hydrocarbon emissions of a spark ignition engine fuelled with gasoline-oxygenate blends. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2000 , 214, 341-346	1.4	31
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