

# Xue-Song Bai

## List of Publications by Year in descending order

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213  
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57631

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114278

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Effect of In-cylinder Flow Structures on Late Cycle Soot Oxidation in a Quiescent Heavy-duty Diesel Engine. <i>Combustion Science and Technology</i> , 2022, 194, 316-336.	1.2	3
2	On element mass conservation in Eulerian stochastic fields modeling of turbulent combustion. <i>Combustion and Flame</i> , 2022, 239, 111577.	2.8	2
3	Multi-region modeling of conversion of a thick biomass particle and the surrounding gas phase reactions. <i>Combustion and Flame</i> , 2022, 237, 111725.	2.8	12
4	CFD modeling of biomass combustion and gasification in fluidized bed reactors using a distribution kernel method. <i>Combustion and Flame</i> , 2022, 236, 111744.	2.8	22
5	Large eddy simulation of soot formation and oxidation for different ambient temperatures and oxygen levels. <i>Applied Energy</i> , 2022, 306, 118094.	5.1	6
6	Large-eddy simulation of the injection timing effects on the dual-fuel spray flame. <i>Fuel</i> , 2022, 310, 122445.	3.4	8
7	Flame structure and burning velocity of ammonia/air turbulent premixed flames at high Karlovitz number conditions. <i>Combustion and Flame</i> , 2022, 238, 111943.	2.8	21
8	Effects of ambient CO <sub>2</sub> and H <sub>2</sub> O on soot processes in n-dodecane spray combustion using large eddy simulation. <i>Fuel</i> , 2022, 312, 122700.	3.4	2
9	Experimental and numerical study of flow and ignition and lean blowout characteristics of jet-cooled wall flameholder in a dual-mode combustor. <i>Aerospace Science and Technology</i> , 2022, 122, 107403.	2.5	9
10	Comparison of efficiency and emission characteristics in a direct-injection compression ignition engine fuelled with iso-octane and methanol under low temperature combustion conditions. <i>Applied Energy</i> , 2022, 312, 118714.	5.1	13
11	Experimental study on combustion and flow resistance characteristics of an afterburner with air-cooled bluff-body flameholder. <i>Aerospace Science and Technology</i> , 2022, 123, 107488.	2.5	8
12	Structure and scalar correlation of ammonia/air turbulent premixed flames in the distributed reaction zone regime. <i>Combustion and Flame</i> , 2022, 241, 112090.	2.8	17
13	Effects of pre-injection on ignition, combustion and emissions of spray under engine-like conditions. <i>Combustion and Flame</i> , 2022, 241, 112082.	2.8	8
14	Investigation of flame characteristics and cooling effectiveness of jet-cooled wall flameholders in vitiated flow. <i>Aerospace Science and Technology</i> , 2022, 127, 107710.	2.5	4
15	Combustion and Emission Characteristics of Ammonia under Conditions Relevant to Modern Gas Turbines. <i>Combustion Science and Technology</i> , 2021, 193, 2514-2533.	1.2	61
16	Numerical study on K/S/Cl release during devolatilization of pulverized biomass at high temperature. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3909-3917.	2.4	15
17	Numerical simulation of a mixed-mode reaction front in a PPC engine. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5703-5711.	2.4	5
18	LES study of diesel flame/wall interaction and mixing mechanisms at different wall distances. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 5597-5604.	2.4	17

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19	Large-eddy simulation of n-dodecane spray flame: Effects of nozzle diameters on autoignition at varying ambient temperatures. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 3427-3434.	2.4	16
20	LES/TPDF investigation of the effects of ambient methanol concentration on pilot fuel ignition characteristics and reaction front structures. <i>Fuel</i> , 2021, 287, 119502.	3.4	17
21	Structure and Laminar Flame Speed of an Ammonia/Methane/Air Premixed Flame under Varying Pressure and Equivalence Ratio. <i>Energy &amp; Fuels</i> , 2021, 35, 7179-7192.	2.5	60
22	Displacement speed analysis of surface propagation in moderately turbulent premixed reacting waves. <i>Physics of Fluids</i> , 2021, 33, 035109.	1.6	3
23	Experimental and Kinetic Investigation of Stoichiometric to Rich $\text{NH}_3/\text{H}_2/\text{Air}$ Flames in a Swirl and Bluff-Body Stabilized Burner. <i>Energy &amp; Fuels</i> , 2021, 35, 7201-7216.	2.5	24
24	Recent Development in Numerical Simulations and Experimental Studies of Biomass Thermochemical Conversion. <i>Energy &amp; Fuels</i> , 2021, 35, 6940-6963.	2.5	45
25	Assessment of a flamelet approach to evaluating mean species mass fractions in moderately and highly turbulent premixed flames. <i>Physics of Fluids</i> , 2021, 33, .	1.6	16
26	Effects of ambient pressure and nozzle diameter on ignition characteristics in diesel spray combustion. <i>Fuel</i> , 2021, 290, 119887.	3.4	11
27	Investigation of turbulent premixed methane/air and hydrogen-enriched methane/air flames in a laboratory-scale gas turbine model combustor. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 13377-13388.	3.8	32
28	Towards a comprehensive optimization of engine efficiency and emissions by coupling artificial neural network (ANN) with genetic algorithm (GA). <i>Energy</i> , 2021, 225, 120331.	4.5	82
29	Numerical study of the combustion and application of SNCR for NO reduction in a lab-scale biomass boiler. <i>Fuel</i> , 2021, 293, 120154.	3.4	25
30	Numerical Study of the Influence of Turbulence-Chemistry Interaction on URANS Simulations of Diesel Spray Flame Structures under Marine Engine-like Conditions. <i>Energy &amp; Fuels</i> , 2021, 35, 11457-11467.	2.5	1
31	Combustion characteristics of n-heptane spray combustion in a low temperature reform gas/air environment. <i>Fuel</i> , 2021, 293, 120377.	3.4	10
32	An investigation on early evolution of soot in n-dodecane spray combustion using large eddy simulation. <i>Fuel</i> , 2021, 293, 120072.	3.4	15
33	Large eddy simulation of n-heptane/syngas pilot ignition spray combustion: Ignition process, liftoff evolution and pollutant emissions. <i>Energy</i> , 2021, 233, 121080.	4.5	10
34	Numerical studies of flame extinction and re-ignition behaviors in a novel, ultra-lean, non-premixed model GT burner using LES-ESF method. <i>Fuel</i> , 2020, 262, 116617.	3.4	4
35	Multiple-objective optimization of methanol/diesel dual-fuel engine at low loads: A comparison of reactivity controlled compression ignition (RCCI) and direct dual fuel stratification (DDFS) strategies. <i>Fuel</i> , 2020, 262, 116673.	3.4	80
36	Effects of ambient methanol on pollutants formation in dual-fuel spray combustion at varying ambient temperatures: A large-eddy simulation. <i>Applied Energy</i> , 2020, 279, 115774.	5.1	32

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37	Effect of piston bowl geometry and compression ratio on in-cylinder combustion and engine performance in a gasoline direct-injection compression ignition engine under different injection conditions. <i>Applied Energy</i> , 2020, 280, 115920.	5.1	30
38	Flame investigations of a laboratory-scale CECOST swirl burner at atmospheric pressure conditions. <i>Fuel</i> , 2020, 279, 118421.	3.4	13
39	Structure and propagation of n-heptane/air premixed flame in low temperature ignition regime. <i>Applied Energy</i> , 2020, 275, 115320.	5.1	9
40	The Role of Multiple Injections on Combustion in a Light-Duty PPC Engine. <i>Energies</i> , 2020, 13, 5535.	1.6	0
41	Large eddy simulation of spray combustion using flamelet generated manifolds combined with artificial neural networks. <i>Energy and AI</i> , 2020, 2, 100021.	5.8	46
42	LES/PDF modeling of swirl-stabilized non-premixed methane/air flames with local extinction and re-ignition. <i>Combustion and Flame</i> , 2020, 219, 102-119.	2.8	16
43	A priori analysis of sub-grid variance of a reactive scalar using DNS data of high Ka flames. <i>Combustion Theory and Modelling</i> , 2019, 23, 885-906.	1.0	16
44	Filtered Reaction Rate Modelling in Moderate and High Karlovitz Number Flames: an a Priori Analysis. <i>Flow, Turbulence and Combustion</i> , 2019, 103, 643-665.	1.4	12
45	Combustion characteristics of gasoline DI CI engine in the transition from HCCI to PPC: Experiment and numerical analysis. <i>Energy</i> , 2019, 185, 922-937.	4.5	37
46	Experimental and kinetic modelling investigation on NO, CO and NH <sub>3</sub> emissions from NH <sub>3</sub> /CH <sub>4</sub> /air premixed flames. <i>Fuel</i> , 2019, 254, 115693.	3.4	55
47	Combustion of NH <sub>3</sub> /CH <sub>4</sub> /Air and NH <sub>3</sub> /H <sub>2</sub> /Air Mixtures in a Porous Burner: Experiments and Kinetic Modeling. <i>Energy &amp; Fuels</i> , 2019, 33, 12767-12780.	2.5	52
48	Large Eddy Simulation and Experimental Analysis of Combustion Dynamics in a Gas Turbine Burner. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019, 141, .	0.5	3
49	Evolution of averaged local premixed flame thickness in a turbulent flow. <i>Combustion and Flame</i> , 2019, 207, 232-249.	2.8	17
50	Emission characteristics and engine performance of gasoline DI CI engine in the transition from HCCI to PPC. <i>Fuel</i> , 2019, 254, 115619.	3.4	28
51	Numerical simulation of ignition mode and ignition delay time of pulverized biomass particles. <i>Combustion and Flame</i> , 2019, 206, 400-410.	2.8	31
52	Biomass steam gasification in bubbling fluidized bed for higher-H <sub>2</sub> syngas: CFD simulation with coarse grain model. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 6448-6460.	3.8	60
53	Chemical kinetic modelling of ammonia/hydrogen/air ignition, premixed flame propagation and NO emission. <i>Fuel</i> , 2019, 246, 24-33.	3.4	137
54	The role of a split injection strategy in the mixture formation and combustion of diesel spray: A large-eddy simulation. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 4709-4716.	2.4	30

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55	Structure and burning velocity of turbulent premixed methane/air jet flames in thin-reaction zone and distributed reaction zone regimes. Proceedings of the Combustion Institute, 2019, 37, 2537-2544.	2.4	28
56	Effects of ambient pressure on ignition and flame characteristics in diesel spray combustion. Fuel, 2019, 237, 676-685.	3.4	32
57	Large Eddy Simulation of Bluff-Body Flame Approaching Blow-Off: A Sensitivity Study. Combustion Science and Technology, 2019, 191, 1815-1842.	1.2	1
58	Numerical Simulation of Turbulent Combustion in Internal Combustion Engines. Energy, Environment, and Sustainability, 2018, , 513-541.	0.6	0
59	Structures of turbulent premixed flames in the high Karlovitz number regime “ DNS analysis. Fuel, 2018, 216, 627-638.	3.4	35
60	The Effect of Splitting Timing on Mixing in a Jet with Double Injections. Flow, Turbulence and Combustion, 2018, 101, 1157-1171.	1.4	5
61	Modelling of diesel spray flames under engine-like conditions using an accelerated Eulerian Stochastic Field method. Combustion and Flame, 2018, 193, 363-383.	2.8	25
62	Assessment of uncertainties of laminar flame speed of premixed flames as determined using a Bunsen burner at varying pressures. Applied Energy, 2018, 227, 149-158.	5.1	23
63	Detailed numerical simulation of transient mixing and combustion of premixed methane/air mixtures in a pre-chamber/main-chamber system relevant to internal combustion engines. Combustion and Flame, 2018, 188, 357-366.	2.8	79
64	Heat Loss Analysis for Various Piston Geometries in a Heavy-Duty Methanol PPC Engine. , 2018, , .		0
65	A generalized flamelet tabulation method for partially premixed combustion. Combustion and Flame, 2018, 198, 54-68.	2.8	21
66	Laser-Induced Plasma Ignition in a Cavity-Based Scramjet Combustor. AIAA Journal, 2018, 56, 4884-4892.	1.5	26
67	Investigation of OH and CH <sub>2</sub> O distributions at ultra-high repetition rates by planar laser induced fluorescence imaging in highly turbulent jet flames. Fuel, 2018, 234, 1528-1540.	3.4	24
68	Numerical and Experimental Investigation of the CeCOST Swirl Burner. , 2018, , .		5
69	LES of Hydrogen Enriched Methane/Air Combustion in the SGT-800 Burner at Real Engine Conditions. , 2018, , .		5
70	Experimental and modeling study of liquid fuel injection and combustion in diesel engines with a common rail injection system. Applied Energy, 2018, 230, 287-304.	5.1	94
71	Effect of cavity geometry on fuel transport and mixing processes in a scramjet combustor. Aerospace Science and Technology, 2018, 80, 309-314.	2.5	63
72	Gas phase combustion in the vicinity of a biomass particle during devolatilization “ Model development and experimental verification. Combustion and Flame, 2018, 196, 351-363.	2.8	14

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73	Ignition processes and modes excited by laser-induced plasma in a cavity-based supersonic combustor. <i>Applied Energy</i> , 2018, 228, 1777-1782.	5.1	67
74	Jet-jet interaction in multiple injections: A large-eddy simulation study. <i>Fuel</i> , 2018, 234, 286-295.	3.4	11
75	Structural evolution of biomass char and its effect on the gasification rate. <i>Applied Energy</i> , 2017, 185, 998-1006.	5.1	49
76	Large Eddy Simulation of the flame propagation process in an ethylene fueled scramjet combustor in a supersonic flow. , 2017, , .		6
77	Multi-species PLIF study of the structures of turbulent premixed methane/air jet flames in the flamelet and thin-reaction zones regimes. <i>Combustion and Flame</i> , 2017, 182, 324-338.	2.8	35
78	Effect of Volatile Reactions on the Thermochemical Conversion of Biomass Particles. <i>Energy Procedia</i> , 2017, 105, 4648-4654.	1.8	3
79	Large eddy simulation of bluff body flames close to blow-off using an Eulerian stochastic field method. <i>Combustion and Flame</i> , 2017, 181, 1-15.	2.8	20
80	Direct numerical simulation of flame/spontaneous ignition interaction fueled with hydrogen under SACI engine conditions. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3842-3852.	3.8	8
81	Numerical and Experimental Investigations of the Siemens SGT-800 Burner Fitted to a Water Rig. , 2017, , .		1
82	Numerical and Experimental Study on Laminar Methane/Air Premixed Flames at Varying Pressure. <i>Energy Procedia</i> , 2017, 105, 4970-4975.	1.8	5
83	Modelling of Methanol Combustion in a Direct Injection Compression Ignition Engine using an Accelerated Stochastic Fields Method. <i>Energy Procedia</i> , 2017, 105, 1326-1331.	1.8	9
84	Effect of burner geometry on swirl stabilized methane/air flames: A joint LES/OH-PLIF/PIV study. <i>Fuel</i> , 2017, 207, 533-546.	3.4	33
85	Thin reaction zone and distributed reaction zone regimes in turbulent premixed methane/air flames: Scalar distributions and correlations. <i>Combustion and Flame</i> , 2017, 175, 220-236.	2.8	72
86	Nonlinear evolution of 2D cellular lean hydrogen/air premixed flames with varying initial perturbations in the elevated pressure environment. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 3790-3803.	3.8	20
87	Rate-ratio asymptotic analysis of the influence of addition of carbon monoxide on the structure and mechanisms of extinction of nonpremixed methane flames with comparison to experiments. <i>Combustion and Flame</i> , 2017, 175, 107-117.	2.8	3
88	Rate-ratio asymptotic analysis of the influence of stoichiometric mixture fraction on structure and extinction of laminar, nonpremixed methane flames with comparison to experiments. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 1495-1503.	2.4	5
89	Modeling of alkali metal release during biomass pyrolysis. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 2243-2251.	2.4	44
90	Large eddy simulation of hydrogen combustion in supersonic flows using an Eulerian stochastic fields method. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1264-1275.	3.8	39

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91	Characterization of the reaction zone structures in a laboratory combustor using optical diagnostics: from flame to flameless combustion. Proceedings of the Combustion Institute, 2017, 36, 4305-4312.	2.4	23
92	Effects of Nozzle Diameter on Diesel Spray Flames: A numerical study using an Eulerian Stochastic Field Method. Energy Procedia, 2017, 142, 1028-1033.	1.8	14
93	Effect of Start of Injection on the Combustion Characteristics in a Heavy-Duty DICI Engine Running on Methanol. , 2017, , .		14
94	Dual Fuel Combustion of N-heptane/methanol-air-EGR Mixtures. Energy Procedia, 2017, 105, 4943-4948.	1.8	12
95	Numerical Investigation of Methane/Hydrogen/Air Partially Premixed Flames in the SGT-800 Burner Fitted to a Combustion Rig. Flow, Turbulence and Combustion, 2016, 96, 987-1003.	1.4	14
96	The hybrid RANS/LES of partially premixed supersonic combustion using G/Z flamelet model. Acta Astronautica, 2016, 127, 375-383.	1.7	22
97	Effect of combustor geometry and fuel injection scheme on the combustion process in a supersonic flow. Acta Astronautica, 2016, 129, 44-51.	1.7	42
98	Direct numerical simulation of H <sub>2</sub> /air combustion with composition stratification in a constant volume enclosure relevant to HCCI engines. International Journal of Hydrogen Energy, 2016, 41, 13758-13770.	3.8	14
99	Large Eddy Simulation of the fuel transport and mixing process in a scramjet combustor with rearwall-expansion cavity. Acta Astronautica, 2016, 126, 375-381.	1.7	74
100	Effect of geometrical contraction on vortex breakdown of swirling turbulent flow in a model combustor. Fuel, 2016, 170, 210-225.	3.4	32
101	Heat transfer and flame stabilization of laminar premixed flames anchored to a heat-flux burner. International Journal of Hydrogen Energy, 2016, 41, 2037-2051.	3.8	10
102	Fractal flame structure due to the hydrodynamic Darrieus-Landau instability. Physical Review E, 2015, 92, 063028.	0.8	44
103	Numerical Investigation of Hydrogen Enriched Natural Gas in the SGT-800 Burner. , 2015, , .		0
104	Stabilization and liftoff length of a non-premixed methane/air jet flame discharging into a high-temperature environment: An accelerated transported PDF method. Combustion and Flame, 2015, 162, 408-419.	2.8	29
105	Rate-ratio asymptotic analysis of the structure and mechanisms of extinction of nonpremixed CH <sub>4</sub> /N <sub>2</sub> -O <sub>2</sub> /N <sub>2</sub> O flames. Proceedings of the Combustion Institute, 2015, 35, 945-953.	2.4	4
106	Direct numerical simulation of PRF70/air partially premixed combustion under IC engine conditions. Proceedings of the Combustion Institute, 2015, 35, 2975-2982.	2.4	41
107	Simultaneous multi-species and temperature visualization of premixed flames in the distributed reaction zone regime. Proceedings of the Combustion Institute, 2015, 35, 1409-1416.	2.4	83
108	Flame structure analysis for categorization of lean premixed CH <sub>4</sub> /air and H <sub>2</sub> /air flames at high Karlovitz numbers: Direct numerical simulation studies. Proceedings of the Combustion Institute, 2015, 35, 1425-1432.	2.4	45

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109	LIBS measurements and numerical studies of potassium release during biomass gasification. Proceedings of the Combustion Institute, 2015, 35, 2389-2396.	2.4	80
110	Rate-Ratio Asymptotic Analysis of the Influence of Addition of Hydrogen on the Structure and Mechanisms of Extinction of Nonpremixed Methane Flames. Combustion Science and Technology, 2015, 187, 3-26.	1.2	5
111	Effects of fuel cetane number on the structure of diesel spray combustion: An accelerated Eulerian stochastic fields method. Combustion Theory and Modelling, 2015, 19, 549-567.	1.0	27
112	Effect of split fuel injection on heat release and pollutant emissions in partially premixed combustion of PRF70/air/EGR mixtures. Applied Energy, 2015, 149, 283-296.	5.1	35
113	A direct numerical simulation study of interface propagation in homogeneous turbulence. Journal of Fluid Mechanics, 2015, 772, 127-164.	1.4	33
114	Visualization of multi-regime turbulent combustion in swirl-stabilized lean premixed flames. Combustion and Flame, 2015, 162, 2954-2958.	2.8	31
115	Numerical and experimental study of flame propagation and quenching of lean premixed turbulent low swirl flames at different Reynolds numbers. Combustion and Flame, 2015, 162, 2582-2591.	2.8	13
116	Distributed reactions in highly turbulent premixed methane/air flames. Combustion and Flame, 2015, 162, 2937-2953.	2.8	117
117	On large eddy simulation of diesel spray for internal combustion engines. International Journal of Heat and Fluid Flow, 2015, 53, 68-80.	1.1	45
118	Evaluation and optimisation of phenomenological multi-step soot model for spray combustion under diesel engine-like operating conditions. Combustion Theory and Modelling, 2015, 19, 279-308.	1.0	33
119	Diesel flame lift-off stabilization in the presence of laser-ignition: a numerical study. Combustion Theory and Modelling, 2015, 19, 696-713.	1.0	13
120	Effect of Pore Size on the Gasification of Biomass Char. Energy Procedia, 2015, 75, 779-785.	1.8	15
121	Mixing in Wall-Jets in a Heavy-Duty Diesel Engine: A LES Study. , 2014, , .		3
122	Transport of Pulverized Wood Particles in Turbulent Flow: Numerical and Experimental Studies. Energy Procedia, 2014, 61, 1540-1543.	1.8	12
123	Three-dimensional direct numerical simulation study of conditioned moments associated with front propagation in turbulent flows. Physics of Fluids, 2014, 26, .	1.6	19
124	DNS of H <sub>2</sub> /air Combustion in a Constant Volume Enclosure Relevant to HCCI Engines. Energy Procedia, 2014, 61, 1536-1539.	1.8	4
125	Comparison of well-mixed and multiple representative interactive flamelet approaches for diesel spray combustion modelling. Combustion Theory and Modelling, 2014, 18, 65-88.	1.0	117
126	Direct numerical simulation of lean premixed CH <sub>4</sub> /air and H <sub>2</sub> /air flames at high Karlovitz numbers. International Journal of Hydrogen Energy, 2014, 39, 20216-20232.	3.8	54

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127	Large Eddy Simulation of Air Entrainment and Mixing in Reacting and Non-Reacting Diesel Sprays. <i>Flow, Turbulence and Combustion</i> , 2014, 93, 385-404.	1.4	44
128	Large eddy simulation of n-Dodecane spray combustion in a high pressure combustion vessel. <i>Applied Energy</i> , 2014, 136, 373-381.	5.1	100
129	A Comprehensive Mathematical Model for Biomass Combustion. <i>Combustion Science and Technology</i> , 2014, 186, 574-593.	1.2	50
130	Large Eddy Simulation and Extended Dynamic Mode Decomposition of Flow-Flame Interaction in a Lean Premixed Low Swirl Stabilized Flame. <i>Flow, Turbulence and Combustion</i> , 2014, 93, 505-519.	1.4	16
131	A fully divergence-free method for generation of inhomogeneous and anisotropic turbulence with large spatial variation. <i>Journal of Computational Physics</i> , 2014, 256, 234-253.	1.9	59
132	Large eddy simulations and rotational CARS/PIV/PLIF measurements of a lean premixed low swirl stabilized flame. <i>Combustion and Flame</i> , 2014, 161, 2539-2551.	2.8	15
133	A semi-implicit scheme for large Eddy simulation of piston engine flow and combustion. <i>International Journal for Numerical Methods in Fluids</i> , 2013, 71, 13-40.	0.9	26
134	Effect of Partial Premixing on Stabilization and Local Extinction of Turbulent Methane/Air Flames. <i>Flow, Turbulence and Combustion</i> , 2013, 90, 269-284.	1.4	17
135	Turbulent Methane/Air Premixed Flame Structure at High Karlovitz Numbers. <i>Flow, Turbulence and Combustion</i> , 2013, 90, 325-341.	1.4	22
136	Development of Chemistry Coordinate Mapping Approach for Turbulent Partially Premixed Combustion. <i>Flow, Turbulence and Combustion</i> , 2013, 90, 285-299.	1.4	17
137	Onset of cellular flame instability in adiabatic CH <sub>4</sub> /O <sub>2</sub> /CO <sub>2</sub> and CH <sub>4</sub> /air laminar premixed flames stabilized on a flat-flame burner. <i>Combustion and Flame</i> , 2013, 160, 1276-1286.	2.8	44
138	Effects of EGR on the structure and emissions of diesel combustion. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 3091-3098.	2.4	43
139	Simultaneous visualization of OH, CH, CH <sub>2</sub> O and toluene PLIF in a methane jet flame with varying degrees of turbulence. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 1475-1482.	2.4	72
140	Swirling turbulent flows in a combustion chamber with and without heat release. <i>Fuel</i> , 2013, 104, 133-146.	3.4	31
141	Pure rotational CARS measurements of temperature and relative O <sub>2</sub> -concentration in a low swirl turbulent premixed flame. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 3629-3636.	2.4	38
142	Lift-off and stabilization of n-heptane combustion in a diesel engine with a multiple-nozzle injection. <i>Proceedings of the Combustion Institute</i> , 2013, 34, 3031-3038.	2.4	25
143	Pulverised wood combustion in a vertical furnace: Experimental and computational analyses. <i>Applied Energy</i> , 2013, 112, 454-464.	5.1	41
144	Onset of cellular instability in adiabatic H <sub>2</sub> /O <sub>2</sub> /N <sub>2</sub> premixed flames anchored to a flat-flame heat-flux burner. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 14866-14878.	3.8	15

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145	Direct numerical simulation of lean hydrogen/air auto-ignition in a constant volume enclosure. <i>Combustion and Flame</i> , 2013, 160, 1706-1716.	2.8	63
146	Multidimensional chemistry coordinate mapping approach for combustion modelling with finite-rate chemistry. <i>Combustion Theory and Modelling</i> , 2012, 16, 1109-1132.	1.0	50
147	A multi-zone chemistry mapping approach for direct numerical simulation of auto-ignition and flame propagation in a constant volume enclosure. <i>Combustion Theory and Modelling</i> , 2012, 16, 221-249.	1.0	34
148	Large Eddy Simulation of Turbulent Combustion in a Spark-Assisted Homogenous Charge Compression Ignition Engine. <i>Combustion Science and Technology</i> , 2012, 184, 1051-1065.	1.2	7
149	An improved high-order scheme for DNS of low Mach number turbulent reacting flows based on stiff chemistry solver. <i>Journal of Computational Physics</i> , 2012, 231, 5504-5521.	1.9	53
150	Large Eddy Simulation of Turbulent Flows in a Laboratory Reciprocating Engine. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2012, , 461-470.	0.2	0
151	Detailed numerical simulation of syngas combustion under partially premixed combustion engine conditions. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17285-17293.	3.8	22
152	Characteristics of oxy-fuel combustion in gas turbines. <i>Applied Energy</i> , 2012, 89, 387-394.	5.1	117
153	Structure and stabilization mechanism of a stratified premixed low swirl flame. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 1567-1574.	2.4	51
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