

Hongsheng Guo

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101
papers

3,456
citations

32
h-index

57
g-index

114
ext. papers

4,022
ext. citations

4.4
avg, IF

5.43
L-index

#	Paper	IF	Citations
101	The chemical effects of carbon dioxide as an additive in an ethylene diffusion flame: implications for soot and NO _x formation. <i>Combustion and Flame</i> , 2001 , 125, 778-787	5.3	283
100	The chemical effect of CO ₂ replacement of N ₂ in air on the burning velocity of CH ₄ and H ₂ premixed flames. <i>Combustion and Flame</i> , 2003 , 133, 495-497	5.3	243
99	On the extinction limit and flammability limit of non-adiabatic stretched methane/air premixed flames. <i>Journal of Fluid Mechanics</i> , 1997 , 342, 315-334	3.7	233
98	The effect of hydrogen addition on flammability limit and NO _x emission in ultra-lean counterflow CH ₄ /air premixed flames. <i>Proceedings of the Combustion Institute</i> , 2005 , 30, 303-311	5.9	137
97	Numerical study on the influence of hydrogen addition on soot formation in a laminar ethylene/air diffusion flame. <i>Combustion and Flame</i> , 2006 , 145, 324-338	5.3	128
96	Effects of gas and soot radiation on soot formation in a coflow laminar ethylene diffusion flame. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2002 , 73, 409-421	2.1	109
95	Extinction of low-stretched diffusion flame in microgravity. <i>Combustion and Flame</i> , 1998 , 112, 181-187	5.3	98
94	Modeling of soot aggregate formation and size distribution in a laminar ethylene/air coflow diffusion flame with detailed PAH chemistry and an advanced sectional aerosol dynamics model. <i>Proceedings of the Combustion Institute</i> , 2009 , 32, 761-768	5.9	97
93	Effects of radiation model on the modeling of a laminar coflow methane/air diffusion flame. <i>Combustion and Flame</i> , 2004 , 138, 136-154	5.3	87
92	Numerical modelling of soot formation and oxidation in laminar coflow non-smoking and smoking ethylene diffusion flames. <i>Combustion Theory and Modelling</i> , 2003 , 7, 301-315	1.5	87
91	CoFlame: A refined and validated numerical algorithm for modeling sooting laminar coflow diffusion flames. <i>Computer Physics Communications</i> , 2016 , 207, 464-477	4.2	81
90	Radiation extinction limit of counterflow premixed lean methane-air flames. <i>Combustion and Flame</i> , 1997 , 109, 639-646	5.3	80
89	Numerical and experimental study of an axisymmetric coflow laminar methane/air diffusion flame at pressures between 5 and 40 atmospheres. <i>Combustion and Flame</i> , 2006 , 146, 456-471	5.3	79
88	An experimental and numerical study of the effect of diesel injection timing on natural gas/diesel dual-fuel combustion at low load. <i>Fuel</i> , 2017 , 203, 642-657	7.1	75
87	An experimental and numerical study on diesel injection split of a natural gas/diesel dual-fuel engine at a low engine load. <i>Fuel</i> , 2018 , 212, 332-346	7.1	71
86	The flame preheating effect on numerical modelling of soot formation in a two-dimensional laminar ethylene/air diffusion flame. <i>Combustion Theory and Modelling</i> , 2002 , 6, 173-187	1.5	71
85	An experimental and numerical study of the effects of dimethyl ether addition to fuel on polycyclic aromatic hydrocarbon and soot formation in laminar coflow ethylene/air diffusion flames. <i>Combustion and Flame</i> , 2011 , 158, 547-563	5.3	69

84	A numerical investigation on methane combustion and emissions from a natural gas-diesel dual fuel engine using CFD model. <i>Applied Energy</i> , 2017 , 205, 153-162	10.7	65
83	Effects of the Lewis number and radiative heat loss on the bifurcation and extinction of CH ₄ /O ₂ -N ₂ -He flames. <i>Journal of Fluid Mechanics</i> , 1999 , 379, 165-190	3.7	65
82	A numerical study of soot aggregate formation in a laminar coflow diffusion flame. <i>Combustion and Flame</i> , 2009 , 156, 697-705	5.3	62
81	Effect of diesel injection timing on the combustion of natural gas/diesel dual-fuel engine at low-high load and low-high speed conditions. <i>Fuel</i> , 2019 , 235, 838-846	7.1	56
80	A Numerical Study on the Influence of CO ₂ Addition on Soot Formation in an Ethylene/Air Diffusion Flame. <i>Combustion Science and Technology</i> , 2008 , 180, 1695-1708	1.5	56
79	The effect of hydrogen addition on combustion and emission characteristics of an n-heptane fuelled HCCI engine. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 11429-11437	6.7	48
78	An experimental study on the effect of hydrogen enrichment on diesel fueled HCCI combustion. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 13820-13830	6.7	47
77	Implementation of an advanced fixed sectional aerosol dynamics model with soot aggregate formation in a laminar methane/air coflow diffusion flame. <i>Combustion Theory and Modelling</i> , 2008 , 12, 621-641	1.5	46
76	A numerical and experimental study of a laminar sooting coflow Jet-A1 diffusion flame. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 601-608	5.9	42
75	Effects of gas and soot radiation on soot formation in counterflow ethylene diffusion flames. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004 , 84, 501-511	2.1	40
74	On greenhouse gas emissions and thermal efficiency of natural gas/diesel dual-fuel engine at low load conditions: Coupled effect of injector rail pressure and split injection. <i>Applied Energy</i> , 2019 , 242, 216-231	10.7	35
73	An experimental study on the formation of polycyclic aromatic hydrocarbons in laminar coflow non-premixed methane/air flames doped with four isomeric butanols. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 779-786	5.9	35
72	Soot and NO formation in counterflow ethylene/oxygen/nitrogen diffusion flames. <i>Combustion Theory and Modelling</i> , 2004 , 8, 475-489	1.5	35
71	Soot formation in a laminar ethylene/air diffusion flame at pressures from 1 to 8atm. <i>Proceedings of the Combustion Institute</i> , 2013 , 34, 1795-1802	5.9	33
70	Numerical study of the superadiabatic flame temperature phenomenon in hydrocarbon premixed flames. <i>Proceedings of the Combustion Institute</i> , 2002 , 29, 1543-1550	5.9	32
69	On the effect of carbon monoxide addition on soot formation in a laminar ethylene/air coflow diffusion flame. <i>Combustion and Flame</i> , 2009 , 156, 1135-1142	5.3	31
68	A Numerical Investigation of Thermal Diffusion Influence on Soot Formation in Ethylene/Air Diffusion Flames. <i>International Journal of Computational Fluid Dynamics</i> , 2004 , 18, 139-151	1.2	31
67	Burning rates and surface characteristics of hydrogen-enriched turbulent lean premixed methane/air flames. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 11342-11348	6.7	30

66	Modeling of Oxidation-Driven Soot Aggregate Fragmentation in a Laminar Coflow Diffusion Flame. <i>Combustion Science and Technology</i> , 2010 , 182, 491-504	1.5	29
65	Flame Bifurcations and Flammable Regions of Radiative Counterflow Premixed Flames with General Lewis Numbers. <i>Combustion and Flame</i> , 1998 , 113, 603-614	5.3	29
64	Effect of swirl ratio on NG/diesel dual-fuel combustion at low to high engine load conditions. <i>Applied Energy</i> , 2018 , 229, 375-388	10.7	28
63	Numerical Investigation of CH ₄ /CO ₂ /Air and CH ₄ /CO ₂ /O ₂ Counterflow Premixed Flames with Radiation Reabsorption. <i>Combustion Science and Technology</i> , 1998 , 135, 49-64	1.5	28
62	Measurement and modeling of the sooting propensity of binary fuel mixtures. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 611-619	5.9	28
61	Impact of CO ₂ , N ₂ or Ar diluted in air on the length and lifting behavior of a laminar diffusion flame. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 1071-1078	5.9	26
60	A Numerical Study on the Effects of CO ₂ /N ₂ /Ar Addition to Air on Liftoff of a Laminar CH ₄ /Air Diffusion Flame. <i>Combustion Science and Technology</i> , 2010 , 182, 1549-1563	1.5	26
59	The interaction between soot and NO formation in a laminar axisymmetric coflow ethylene/air diffusion flame. <i>Combustion and Flame</i> , 2007 , 149, 225-233	5.3	22
58	A numerical study on NO _x formation in laminar counterflow CH ₄ /air triple flames. <i>Combustion and Flame</i> , 2005 , 143, 282-298	5.3	22
57	Heat release rate variations in a globally stoichiometric, stratified iso-octane/air turbulent V-flame. <i>Combustion and Flame</i> , 2015 , 162, 944-959	5.3	21
56	The effect of reformat gas enrichment on extinction limits and NO _x formation in counterflow CH ₄ /air premixed flames. <i>Proceedings of the Combustion Institute</i> , 2007 , 31, 1197-1204	5.9	21
55	A numerical investigation on NO ₂ formation reaction pathway in a natural gas/diesel dual fuel engine. <i>Combustion and Flame</i> , 2018 , 190, 337-348	5.3	18
54	A numerical study on the effect of hydrogen/reformat gas addition on flame temperature and NO formation in strained methane/air diffusion flames. <i>Combustion and Flame</i> , 2009 , 156, 477-483	5.3	18
53	A robust and accurate algorithm of the ϵ -pdf integration and its application to turbulent methane/air diffusion combustion in a gas turbine combustor simulator. <i>International Journal of Thermal Sciences</i> , 2002 , 41, 763-772	4.1	18
52	A numerical study of the influence of transport properties of inert diluents on soot formation in a coflow laminar ethylene/air diffusion flame. <i>Proceedings of the Combustion Institute</i> , 2002 , 29, 2359-2365	5.9	18
51	Effects of Cetane Number, Aromatic Content and 90% Distillation Temperature on HCCI Combustion of Diesel Fuels 2010 ,		17
50	An Experimental and Modeling Study of HCCI Combustion Using n-Heptane. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010 , 132,	1.7	15
49	Split diesel injection effect on knocking of natural gas/diesel dual-fuel engine at high load conditions. <i>Applied Energy</i> , 2020 , 279, 115828	10.7	15

48	An Experimental Investigation on the Combustion and Emissions Performance of a Natural Gas/Diesel Dual Fuel Engine at Low and Medium Loads 2015 ,		14
47	Effects of different cetane number enhancement strategies on HCCI combustion and emissions. <i>International Journal of Engine Research</i> , 2011 , 12, 89-108	2.7	14
46	A numerical study on the chemical kinetics process during auto-ignition of n-heptane in a direct injection compression ignition engine. <i>Applied Energy</i> , 2018 , 212, 909-918	10.7	13
45	Numerical Study of NO _x Emission in High Temperature Air Combustion.. <i>JSME International Journal Series B</i> , 1998 , 41, 331-337		12
44	Determination of Burning Velocity and Flammability Limit of Methane/Air Mixture Using Counterflow Flames. <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 961-967	1.4	12
43	A numerical study of laminar methane/air triple flames in two-dimensional mixing layers. <i>International Journal of Thermal Sciences</i> , 2006 , 45, 586-594	4.1	11
42	Effect of post-injection strategy on greenhouse gas emissions of natural gas/diesel dual-fuel engine at high load conditions. <i>Fuel</i> , 2021 , 290, 120071	7.1	11
41	Further examinations on extinction and bifurcations of radiative CH ₄ /air and C ₃ H ₈ /air premixed flames. <i>Proceedings of the Combustion Institute</i> , 1998 , 27, 2551-2557		9
40	The Combustion and Emissions Performance of a Syngas-Diesel Dual Fuel Compression Ignition Engine 2016 ,		9
39	Effects of stratification on locally lean, near-stoichiometric, and rich iso-octane/air turbulent V-flames. <i>Combustion and Flame</i> , 2015 , 162, 4231-4240	5.3	8
38	The NO _x and N ₂ O Emission Characteristics of an HCCI Engine Operated With n-Heptane. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2012 , 134,	2.6	8
37	A numerical investigation on NO _x formation in counterflow n-heptane triple flames. <i>International Journal of Thermal Sciences</i> , 2007 , 46, 936-943	4.1	8
36	A multi-spectral reordering technique for the full spectrum SLMB modeling of radiative heat transfer in nonuniform gaseous mixtures. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011 , 112, 394-411	2.1	7
35	Fuel Property Effects on PCCI Combustion in a Heavy-Duty Diesel Engine. <i>Journal of Engineering for Gas Turbines and Power</i> , 2012 , 134,	1.7	7
34	Effects of radiative heat loss on the extinction of counterflow premixed H ₂ /air flames. <i>Combustion Theory and Modelling</i> , 2000 , 4, 459-475	1.5	7
33	Effect of pre-main-post diesel injection strategy on greenhouse gas and nitrogen oxide emissions of natural gas/diesel dual-fuel engine at high load conditions. <i>Fuel</i> , 2021 , 302, 121110	7.1	7
32	Combustion Performance and Unburned Hydrocarbon Emissions of a Natural Gas/Diesel Dual Fuel Engine at a Low Load Condition. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018 , 140,	1.7	6
31	A Study on the Performance of Combustion in a HCCI Engine Using n-Heptane by a Multi-Zone Model 2009 ,		6

30	Evaluation of the laminar diffusion flamelet model in the calculation of an axisymmetric coflow laminar ethylene/air diffusion flame. <i>Combustion and Flame</i> , 2006 , 144, 605-618	5.3	6
29	Evaluation of Kinetics Process in CFD Model and Its Application in Ignition Process Analysis of a Natural Gas-Diesel Dual Fuel Engine 2017 ,		5
28	A numerical study on the effect of CO addition on extinction limits and NO _x formation in lean counterflow CH ₄ /air premixed flames. <i>Combustion Theory and Modelling</i> , 2007 , 11, 741-753	1.5	5
27	Effect of fuel composition on properties of particles emitted from a diesel/natural gas dual fuel engine. <i>International Journal of Engine Research</i> , 2021 , 22, 77-87	2.7	5
26	Effect of Diesel Injection Split on Combustion and Emissions Performance of a Natural Gas/Diesel Dual Fuel Engine at a Low Load Condition 2017 ,		4
25	Effects of ammonia energy fraction and diesel injection timing on combustion and emissions of an ammonia/diesel dual-fuel engine. <i>Fuel</i> , 2021 , 122723	7.1	4
24	Effect of Renewable Diesel and Jet Blending Components on Combustion and Emissions Performance of a HCCI Engine 2014 ,		3
23	Fuel Property Effects on PCCI Combustion in a Heavy-Duty Diesel Engine 2010 ,		3
22	The Effect of Iso-Octane Addition on Combustion and Emission Characteristics of a HCCI Engine Fueled With n-Heptane. <i>Journal of Engineering for Gas Turbines and Power</i> , 2011 , 133,	1.7	3
21	An Experimental and Modeling Study of HCCI Combustion Using n-Heptane 2006 ,		3
20	On the Variation of the Effect of Natural Gas Fraction on Dual-Fuel Combustion of Diesel Engine Under Low-to-High Load Conditions. <i>Frontiers in Mechanical Engineering</i> , 2020 , 6,	2.6	3
19	Injector Tip Temperature and Combustion Performance of a Natural Gas-Diesel Dual Fuel Engine at Medium and High Load Conditions 2018 ,		3
18	A Numerical Investigation on NO ₂ Formation in a Natural Gas/Diesel Dual Fuel Engine. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018 , 140,	1.7	2
17	A Numerical Investigation on NO ₂ Formation in a Natural Gas-Diesel Dual Fuel Engine 2017 ,		2
16	Combustion Performance and Unburned Hydrocarbon Emissions of a Natural Gas/Diesel Dual Fuel Engine at a Low Load Condition 2017 ,		2
15	The effect of preferential diffusion on soot formation in a laminar ethylene/air diffusion flame. <i>Combustion Theory and Modelling</i> , 2010 , 15, 125-140	1.5	2
14	Low Stretched Premixed Methane-Air Flame.. <i>880-02 Nihon Kikai Gakkai Ronbunshu</i> Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1997 , 63, 699-704		2
13	A Numerical Study on the Effect of Water Addition on NO Formation in Counterflow CH ₄ /Air Premixed Flames. <i>Journal of Engineering for Gas Turbines and Power</i> , 2008 , 130,	1.7	2

12	A study on split diesel injection on thermal efficiency and emissions of an ammonia/diesel dual-fuel engine. <i>Fuel</i> , 2022 , 316, 123412	7.1	2
11	The NOx and N2O Emission Characteristics of an HCCI Engine Operated With N-Heptane 2007 ,		2
10	Combustion and Greenhouse Gas Emissions of a Natural Gas-Diesel Dual Fuel Engine at Low and High Load Conditions 2019 ,		2
9	An Experimental Study on the Effect of Exhaust Gas Recirculation on a Natural Gas-Diesel Dual-Fuel Engine		2
8	A Numerical Study on the Effect of CO Addition on Flame Temperature and NO Formation in Counterflow CH4/Air Diffusion Flames. <i>Journal of Engineering for Gas Turbines and Power</i> , 2008 , 130,	1.7	1
7	A Numerical Investigation of NOx Formation in Counterflow CH4/H2/Air Diffusion Flames 2006 ,		1
6	A study on effect of engine operating parameters on NOx emissions and exhaust temperatures of a heavy-duty diesel engine during idling. <i>International Journal of Engine Research</i> ,146808742210760	2.7	0
5	A Numerical Study on the Effect of CO Addition on Flame Temperature and NO Formation in Counterflow CH4/Air Diffusion Flames 2007 , 701		
4	A Numerical Study on the Effect of Water Addition on NO Formation in Counterflow CH4/Air Premixed Flames 2005 , 383		
3	Numerical Modeling of a Lifted Laminar Coflow Methane Diffusion Jet Flames Using Detailed Chemistry and Non-Grey Gas Radiation Models 2002 , 119		
2	Combustion and Emission Performance of an HCCI Engine Fuelled by n-Heptane/Toluene Blends at a Low-Load Operating Condition. <i>Journal of Advanced Thermal Science Research</i> , 2019 , 5, 17-26		0
1	Numerical investigation on NO formation in laminar counterflow methane/n-heptane dual fuel flames. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 13143-13156	6.7	