Hongsheng Guo

List of Publications by Year
in descending order

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		101543	106344
114	4,560	36	65
papers	citations	h-index	g-index

114	114	114	1972
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of ammonia energy fraction and diesel injection timing on combustion and emissions of an ammonia/diesel dual-fuel engine. Fuel, 2022, 314, 122723.	6.4	127
2	A study on split diesel injection on thermal efficiency and emissions of an ammonia/diesel dual-fuel engine. Fuel, 2022, 316, 123412.	6.4	71
3	Numerical investigation on NO formation in laminar counterflow methane/n-heptane dual fuel flames. International Journal of Hydrogen Energy, 2022, 47, 13143-13156.	7.1	3
4	An Experimental Study On a Dual-Fuel Generator Fueled with Diesel and Simulated Biogas. Journal of Engineering for Gas Turbines and Power, 2022, , .	1.1	0
5	Effect of fuel composition on properties of particles emitted from a dieselâ€“natural gas dual fuel engine. International Journal of Engine Research, 2021, 22, 77-87.	2.3	14
6	Editorial: Advances in Compression Ignition Natural Gasâ€“Diesel Dual-Fuel Engines. Frontiers in Mechanical Engineering, 2021, 7, .	1.8	2
7	Effect of post-injection strategy on greenhouse gas emissions of natural gas/diesel dual-fuel engine at high load conditions. Fuel, 2021, 290, 120071.	6.4	22
8	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. Fuel, 2021, 302, 121110.	6.4	13
9	An Experimental Study on a Dual-Fuel Generator Fueled With Diesel and Simulated Biogas. , 2021, , .		0
10	On the Variation of the Effect of Natural Gas Fraction on Dual-Fuel Combustion of Diesel Engine Under Low-to-High Load Conditions. Frontiers in Mechanical Engineering, 2020, 6, .	1.8	4
11	A Study on the High Load Operation of a Natural Gas-Diesel Dual-Fuel Engine. Frontiers in Mechanical Engineering, 2020, 6, .	1.8	1
12	Split diesel injection effect on knocking of natural gas/diesel dual-fuel engine at high load conditions. Applied Energy, 2020, 279, 115828.	10.1	31
13	Replacement of Diesel by Biogas Generated From Wastewater Treatment in a Small Diesel Generator by Dual Fuel Technology. , 2020, , .		0
14	Effect of diesel injection timing on the combustion of natural gas/diesel dual-fuel engine at low-high load and low-high speed conditions. Fuel, 2019, 235, 838-846.	6.4	92
15	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. Applied Energy, 2019, 242, 216-231.	10.1	53
16	Combustion and Greenhouse Gas Emissions of a Natural Gas-Diesel Dual Fuel Engine at Low and High Load Conditions. , 2019, , .		3
17	Combustion and Emission Performance of an HCCI Engine Fuelled by n-Heptane/Toluene Blends at a Low-Load Operating Condition. Journal of Advanced Thermal Science Research, 2019, 5, 17-26.	0.4	0
18	A Numerical Investigation on NO2 Formation in a Natural Gasâ€“Diesel Dual Fuel Engine. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	2

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19	A numerical study on the chemical kinetics process during auto-ignition of n-heptane in a direct injection compression ignition engine. Applied Energy, 2018, 212, 909-918.	10.1	22
20	A numerical investigation on NO2 formation reaction pathway in a natural gasâ€“diesel dual fuel engine. Combustion and Flame, 2018, 190, 337-348.	5.2	26
21	An experimental and numerical study on diesel injection split of a natural gas/diesel dual-fuel engine at a low engine load. Fuel, 2018, 212, 332-346.	6.4	109
22	Injector Tip Temperature and Combustion Performance of a Natural Gas-Diesel Dual Fuel Engine at Medium and High Load Conditions. , 2018, , .		6
23	Combustion Performance and Unburned Hydrocarbon Emissions of a Natural Gasâ€“Diesel Dual Fuel Engine at a Low Load Condition. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	14
24	Effect of swirl ratio on NG/diesel dual-fuel combustion at low to high engine load conditions. Applied Energy, 2018, 229, 375-388.	10.1	43
25	An experimental and numerical study of the effect of diesel injection timing on natural gas/diesel dual-fuel combustion at low load. Fuel, 2017, 203, 642-657.	6.4	102
26	A numerical investigation on methane combustion and emissions from a natural gas-diesel dual fuel engine using CFD model. Applied Energy, 2017, 205, 153-162.	10.1	89
27	A Numerical Investigation on NO2 Formation in a Natural Gas-Diesel Dual Fuel Engine. , 2017, , .		2
28	Effect of Diesel Injection Split on Combustion and Emissions Performance of a Natural Gasâ€“Diesel Dual Fuel Engine at a Low Load Condition. , 2017, , .		6
29	Combustion Performance and Unburned Hydrocarbon Emissions of a Natural Gasâ€“Diesel Dual Fuel Engine at a Low Load Condition. , 2017, , .		2
30	CoFlame: A refined and validated numerical algorithm for modeling sooting laminar coflow diffusion flames. Computer Physics Communications, 2016, 207, 464-477.	7.5	136
31	The Combustion and Emissions Performance of a Syngas-Diesel Dual Fuel Compression Ignition Engine. , 2016, , .		13
32	Effects of stratification on locally lean, near-stoichiometric, and rich iso-octane/air turbulent V-flames. Combustion and Flame, 2015, 162, 4231-4240.	5.2	8
33	An Experimental Investigation on the Combustion and Emissions Performance of a Natural Gasâ€“Diesel Dual Fuel Engine at Low and Medium Loads. , 2015, , .		19
34	Heat release rate variations in a globally stoichiometric, stratified iso-octane/air turbulent V-flame. Combustion and Flame, 2015, 162, 944-959.	5.2	23
35	Effect of Renewable Diesel and Jet Blending Components on Combustion and Emissions Performance of a HCCI Engine. , 2014, , .		3
36	The effect of hydrogen addition on combustion and emission characteristics of an n-heptane fuelled HCCI engine. International Journal of Hydrogen Energy, 2013, 38, 11429-11437.	7.1	56

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37	Soot formation in a laminar ethylene/air diffusion flame at pressures from 1 to 8 atm. Proceedings of the Combustion Institute, 2013, 34, 1795-1802.	3.9	47
38	An experimental study on the formation of polycyclic aromatic hydrocarbons in laminar coflow non-premixed methane/air flames doped with four isomeric butanols. Proceedings of the Combustion Institute, 2013, 34, 779-786.	3.9	40
39	The NOx and N2O Emission Characteristics of an HCCI Engine Operated With n-Heptane. Journal of Energy Resources Technology, Transactions of the ASME, 2012, 134, .	2.3	11
40	Fuel Property Effects on PCCI Combustion in a Heavy-Duty Diesel Engine. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	12
41	Dilution Effects on Partially-Premixed Combustion of an Ultra-Low Sulphur Diesel Fuel Under Low-Load Operation. , 2012, , .		0
42	An experimental study on the effect of hydrogen enrichment on diesel fueled HCCI combustion. International Journal of Hydrogen Energy, 2011, 36, 13820-13830.	7.1	57
43	A numerical and experimental study of a laminar sooting coflow Jet-A1 diffusion flame. Proceedings of the Combustion Institute, 2011, 33, 601-608.	3.9	45
44	Impact of CO2, N2 or Ar diluted in air on the length and lifting behavior of a laminar diffusion flame. Proceedings of the Combustion Institute, 2011, 33, 1071-1078.	3.9	38
45	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. Combustion and Flame, 2011, 158, 547-563.	5.2	89
46	A multi-spectral reordering technique for the full spectrum SLMB modeling of radiative heat transfer in nonuniform gaseous mixtures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 394-411.	2.3	8
47	Effects of different cetane number enhancement strategies on HCCI combustion and emissions. International Journal of Engine Research, 2011, 12, 89-108.	2.3	21
48	The Effect of Iso-Octane Addition on Combustion and Emission Characteristics of a HCCI Engine Fueled With n-Heptane. Journal of Engineering for Gas Turbines and Power, 2011, 133, .	1.1	5
49	Burning rates and surface characteristics of hydrogen-enriched turbulent lean premixed methaneâ€“air flames. International Journal of Hydrogen Energy, 2010, 35, 11342-11348.	7.1	36
50	The effect of preferential diffusion on soot formation in a laminar ethylene/air diffusion flame. Combustion Theory and Modelling, 2010, 15, 125-140.	1.9	4
51	An Experimental and Modeling Study of HCCI Combustion Using n-Heptane. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	1.1	20
52	Modeling of Oxidation-Driven Soot Aggregate Fragmentation in a Laminar Coflow Diffusion Flame. Combustion Science and Technology, 2010, 182, 491-504.	2.3	34
53	A Numerical Study on the Effects of CO₂/N₂/Ar Addition to Air on Liftoff of a Laminar CH₄/Air Diffusion Flame. Combustion Science and Technology, 2010, 182, 1549-1563.	2.3	32
54	Fuel Property Effects on PCCI Combustion in a Heavy-Duty Diesel Engine. , 2010, , .		3

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55	A numerical study of soot aggregate formation in a laminar coflow diffusion flame. Combustion and Flame, 2009, 156, 697-705.	5.2	65
56	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. Proceedings of the Combustion Institute, 2009, 32, 761-768.	3.9	109
57	A numerical study on the effect of hydrogen/reformate gas addition on flame temperature and NO formation in strained methane/air diffusion flames. Combustion and Flame, 2009, 156, 477-483.	5.2	25
58	On the effect of carbon monoxide addition on soot formation in a laminar ethylene/air coflow diffusion flame. Combustion and Flame, 2009, 156, 1135-1142.	5.2	35
59	A Study on the Performance of Combustion in a HCCI Engine Using n-Heptane by a Multi-Zone Model. , 2009, , .		7
60	Burning Rates and Surface Characteristics of Hydrogen-Enriched Turbulent Lean Premixed Methane-Air Flames. , 2009, , .		0
61	Implementation of an advanced fixed sectional aerosol dynamics model with soot aggregate formation in a laminar methane/air coflow diffusion flame. Combustion Theory and Modelling, 2008, 12, 621-641.	1.9	50
62	A Numerical Study on the Effect of Water Addition on NO Formation in Counterflow CH4/Air Premixed Flames. Journal of Engineering for Gas Turbines and Power, 2008, 130, .	1.1	5
63	A Numerical Study on the Effect of CO Addition on Flame Temperature and NO Formation in Counterflow CH4/Air Diffusion Flames. Journal of Engineering for Gas Turbines and Power, 2008, 130, .	1.1	1
64	A Numerical Study on the Influence of CO₂Addition on Soot Formation in an Ethylene/Air Diffusion Flame. Combustion Science and Technology, 2008, 180, 1695-1708.	2.3	68
65	A Numerical Investigation on Soot Formation From Laminar Diffusion Flames of Ethylene/Methane Mixture. , 2008, , .		2
66	A Numerical Study on the Effect of CO Addition on Flame Temperature and NO Formation in Counterflow CH4/Air Diffusion Flames. , 2007, , 701.		0
67	A numerical study on the effect of CO addition on extinction limits and NO_xformation in lean counterflow CH₄/air premixed flames. Combustion Theory and Modelling, 2007, 11, 741-753.	1.9	5
68	The interaction between soot and NO formation in a laminar axisymmetric coflow ethylene/air diffusion flame. Combustion and Flame, 2007, 149, 225-233.	5.2	26
69	A numerical investigation on NOX formation in counterflow n-heptane triple flames. International Journal of Thermal Sciences, 2007, 46, 936-943.	4.9	10
70	The effect of reformate gas enrichment on extinction limits and NOX formation in counterflow CH4/air premixed flames. Proceedings of the Combustion Institute, 2007, 31, 1197-1204.	3.9	25
71	Measurement and modeling of the sooting propensity of binary fuel mixtures. Proceedings of the Combustion Institute, 2007, 31, 611-619.	3.9	38
72	The NOx and N2O Emission Characteristics of an HCCI Engine Operated With N-Heptane. , 2007, , .		2

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73	A numerical study of laminar methane/air triple flames in two-dimensional mixing layers. International Journal of Thermal Sciences, 2006, 45, 586-594.	4.9	14
74	Evaluation of the laminar diffusion flamelet model in the calculation of an axisymmetric coflow laminar ethyleneâ€“air diffusion flame. Combustion and Flame, 2006, 144, 605-618.	5.2	12
75	Numerical study on the influence of hydrogen addition on soot formation in a laminar ethyleneâ€“air diffusion flame. Combustion and Flame, 2006, 145, 324-338.	5.2	156
76	Numerical and experimental study of an axisymmetric coflow laminar methaneâ€“air diffusion flame at pressures between 5 and 40 atmospheres. Combustion and Flame, 2006, 146, 456-471.	5.2	96
77	An Experimental and Modeling Study of HCCI Combustion Using n-Heptane. , 2006, , .		4
78	A Numerical Investigation of NOx Formation in Counterflow CH4/H2/Air Diffusion Flames. , 2006, , .		1
79	A numerical study on NOx formation in laminar counterflow CH4/air triple flames. Combustion and Flame, 2005, 143, 282-298.	5.2	31
80	The effect of hydrogen addition on flammability limit and NOx emission in ultra-lean counterflow CH4/air premixed flames. Proceedings of the Combustion Institute, 2005, 30, 303-311.	3.9	185
81	A Numerical Study on the Effect of Water Addition on NO Formation in Counterflow CH4/Air Premixed Flames. , 2005, , 383.		0
82	A Numerical Study on a V-Shaped Laminar Stratified Flame. , 2005, , .		0
83	Effects of radiation model on the modeling of a laminar coflow methane/air diffusion flame. Combustion and Flame, 2004, 138, 136-154.	5.2	103
84	Effects of gas and soot radiation on soot formation in counterflow ethylene diffusion flames. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 84, 501-511.	2.3	49
85	A Numerical Investigation of Thermal Diffusion Influence on Soot Formation in Ethylene/Air Diffusion Flames. International Journal of Computational Fluid Dynamics, 2004, 18, 139-151.	1.2	35
86	Soot and NO formation in counterflow ethylene/oxygen/nitrogen diffusion flames. Combustion Theory and Modelling, 2004, 8, 475-489.	1.9	42
87	A Numerical Study of the Influence of Hydrogen Addition on Soot Formation in a Laminar Counterflow Ethylene/Oxygen/Nitrogen Diffusion Flame. , 2004, , .		0
88	The chemical effect of CO2 replacement of N2 in air on the burning velocity of CH4 and H2 premixed flames. Combustion and Flame, 2003, 133, 495-497.	5.2	283
89	Numerical modelling of soot formation and oxidation in laminar coflow non-smoking and smoking ethylene diffusion flames. Combustion Theory and Modelling, 2003, 7, 301-315.	1.9	106
90	The flame preheating effect on numerical modelling of soot formation in a two-dimensional laminar ethyleneâ€“air diffusion flame. Combustion Theory and Modelling, 2002, 6, 173-187.	1.9	82

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91	Numerical Modeling of a Lifted Laminar Coflow Methane Diffusion Jet Flames Using Detailed Chemistry and Non-Grey Gas Radiation Models. , 2002, , 119.		0
92	Numerical study of the superadiabatic flame temperature phenomenon in hydrocarbon premixed flames. Proceedings of the Combustion Institute, 2002, 29, 1543-1550.	3.9	41
93	A robust and accurate algorithm of the Î²-pdf integration and its application to turbulent methaneâ€“air diffusion combustion in a gas turbine combustor simulator. International Journal of Thermal Sciences, 2002, 41, 763-772.	4.9	20
94	Effects of gas and soot radiation on soot formation in a coflow laminar ethylene diffusion flame. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 73, 409-421.	2.3	127
95	A numerical study of the influence of transport properties of inert diluents on soot formation in a coflow laminar ethylene/air diffusion flame. Proceedings of the Combustion Institute, 2002, 29, 2359-2365.	3.9	22
96	The chemical effects of carbon dioxide as an additive in an ethylene diffusion flame: implications for soot and NOx formation. Combustion and Flame, 2001, 125, 778-787.	5.2	341
97	Effects of radiative heat loss on the extinction of counterflow premixed H2â€“air flames. Combustion Theory and Modelling, 2000, 4, 459-475.	1.9	8
98	Determination of Burning Velocity and Flammability Limit of Methane/Air Mixture Using Counterflow Flames. Japanese Journal of Applied Physics, 1999, 38, 961-967.	1.5	14
99	Effects of the Lewis number and radiative heat loss on the bifurcation and extinction of CH4/O2-N2-He flames. Journal of Fluid Mechanics, 1999, 379, 165-190.	3.4	81
100	Flame Bifurcations and Flammable Regions of Radiative Counterflow Premixed Flames with General Lewis Numbers. Combustion and Flame, 1998, 113, 603-614.	5.2	29
101	Extinction of low-stretched diffusion flame in microgravity. Combustion and Flame, 1998, 112, 181-187.	5.2	118
102	Further examinations on extinction and bifurcations of radiative CH4/air and C3H8/air premixed flames. Proceedings of the Combustion Institute, 1998, 27, 2551-2557.	0.3	10
103	Numerical Investigation of CH4/CO2/Air and CH4/CO2/O2Counterflow Premixed Flames with Radiation Reabsorption. Combustion Science and Technology, 1998, 135, 49-64.	2.3	32
104	Numerical Study of NOx Emission in High Temperature Air Combustion.. JSME International Journal Series B, 1998, 41, 331-337.	0.3	15
105	On the extinction limit and flammability limit of non-adiabatic stretched methaneâ€“air premixed flames. Journal of Fluid Mechanics, 1997, 342, 315-334.	3.4	276
106	Low Stretched Premixed Methane-Air Flame.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1997, 63, 699-704.	0.2	2
107	Radiation extinction limit of counterflow premixed lean methane-air flames. Combustion and Flame, 1997, 109, 639-646.	5.2	94
108	Effects of Cetane Number, Aromatic Content and 90% Distillation Temperature on HCCI Combustion of Diesel Fuels. , 0, , .		18

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109	Evaluation of Kinetics Process in CFD Model and Its Application in Ignition Process Analysis of a Natural Gas-Diesel Dual Fuel Engine. , 0, , .		7
110	An Experimental Study on NOx Emissions of a Heavy-Duty Diesel Engine during Cold Start and Idling. , 0, , .		2
111	An Experimental Study on the Effect of Exhaust Gas Recirculation on a Natural Gas-Diesel Dual-Fuel Engine. , 0, , .		9
112	Effects of Ammonia Energy Fraction and Diesel Injection Timing on Combustion and Emissions of an Ammonia/Diesel Dual-Fuel Engine. SSRN Electronic Journal, 0, , .	0.4	1
113	A study on effect of engine operating parameters on NOx emissions and exhaust temperatures of a heavy-duty diesel engine during idling. International Journal of Engine Research, 0, , 146808742210760.	2.3	2
114	A Study on the Use of Intake Flow Path Modification to Reduce Methane Slip of a Natural Gas-Diesel Dual-Fuel Engine. , 0, , .		0