

Xinlei Liu

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

791
citations

567144

15
h-index

580701

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all docs

30
docs citations

30
times ranked

553
citing authors

#	ARTICLE	IF	CITATIONS
1	Soot reduction effects of the addition of four butanol isomers on partially premixed flames of diesel surrogates. <i>Combustion and Flame</i> , 2017, 177, 123-136.	2.8	103
2	Laser diagnostics and chemical kinetic analysis of PAHs and soot in co-flow partially premixed flames using diesel surrogate and oxygenated additives of n-butanol and DMF. <i>Combustion and Flame</i> , 2018, 188, 129-141.	2.8	93
3	Development of a combined reduced primary reference fuel-alcohols (methanol/ethanol/propanols/butanols/n-pentanol) mechanism for engine applications. <i>Energy</i> , 2016, 114, 542-558.	4.5	90
4	Development of a reduced toluene reference fuel (TRF)-2,5-dimethylfuran-polycyclic aromatic hydrocarbon (PAH) mechanism for engine applications. <i>Combustion and Flame</i> , 2016, 165, 453-465.	2.8	58
5	Experimental and modelling investigations of the diesel surrogate fuels in direct injection compression ignition combustion. <i>Applied Energy</i> , 2017, 189, 187-200.	5.1	44
6	A numerical investigation of the combustion kinetics of reactivity controlled compression ignition (RCCI) combustion in an optical engine. <i>Fuel</i> , 2019, 241, 753-766.	3.4	42
7	Computational assessment of effects of throat diameter on combustion and turbulence characteristics in a pre-chamber engine. <i>Applied Thermal Engineering</i> , 2022, 212, 118595.	3.0	36
8	Experimental and kinetic modeling study of a rich and a stoichiometric low-pressure premixed laminar 2,5-dimethylfuran/oxygen/argon flames. <i>Combustion and Flame</i> , 2015, 162, 4586-4597.	2.8	33
9	Experimental and Modeling Investigations on Soot Formation of Ethanol, n-Butanol, 2,5-Dimethylfuran, and Biodiesel in Diesel Engines. <i>Energy & Fuels</i> , 2017, 31, 12108-12119.	2.5	22
10	Numerical investigation on the combustion and emission characteristics of a heavy-duty natural gas-diesel dual-fuel engine. <i>Fuel</i> , 2021, 300, 120998.	3.4	22
11	Investigation on the dual-fuel active-thermal atmosphere combustion strategy based on optical diagnostics and numerical simulations. <i>Fuel</i> , 2020, 276, 118023.	3.4	21
12	Numerical Investigation of the Free and Ducted Fuel Injections under Compression Ignition Conditions. <i>Energy & Fuels</i> , 2020, 34, 14832-14842.	2.5	19
13	A Numerical Investigation on the Chemical Kinetics Process of a Reacting n-Dodecane Spray Flame under Compression Ignition Combustion Condition. <i>Energy & Fuels</i> , 2019, 33, 11899-11912.	2.5	18
14	A comparative numerical investigation of reactivity controlled compression ignition combustion using Large Eddy Simulation and Reynolds-Averaged Navier-Stokes approaches. <i>Fuel</i> , 2019, 257, 116023.	3.4	18
15	Effects of fuel trapping in piston crevice on unburned hydrocarbon emissions in early-injection compression ignition engines. <i>Combustion and Flame</i> , 2021, 231, 111496.	2.8	18
16	Investigation of the chemical kinetics process of diesel combustion in a compression ignition engine using the large eddy simulation approach. <i>Fuel</i> , 2020, 270, 117544.	3.4	17
17	Experimental study on the partially premixed combustion (PPC) fueled with n-butanol. <i>Fuel</i> , 2019, 257, 116000.	3.4	16
18	Kinetic Study of the Ignition Process of Methane/n-Heptane Fuel Blends under High-Pressure Direct-Injection Natural Gas Engine Conditions. <i>Energy & Fuels</i> , 2020, 34, 14796-14813.	2.5	15

#	ARTICLE	IF	CITATIONS
19	Development of a simplified n-heptane/methane model for high-pressure direct-injection natural gas marine engines. <i>Frontiers in Energy</i> , 2021, 15, 405-420.	1.2	14
20	Fuel flexibility potential for isobaric combustion in a compression ignition engine: A computational study. <i>Fuel</i> , 2022, 316, 123281.	3.4	14
21	Investigation of the Combustion Kinetics Process in a High-Pressure Direct Injection Natural Gas Marine Engine. <i>Energy & Fuels</i> , 2021, 35, 6785-6797.	2.5	13
22	Development of a reduced primary reference fuel-PODE3-methanol-ethanol-n-butanol mechanism for dual-fuel engine simulations. <i>Energy</i> , 2021, 235, 121439.	4.5	13
23	Experimental and Modelling Investigations of the Gasoline Compression Ignition Combustion in Diesel Engine. , 2017, , .		12
24	A numerical investigation of isobaric combustion strategy in a compression ignition engine. <i>International Journal of Engine Research</i> , 2021, 22, 3372-3390.	1.4	12
25	Validation of Computational Models for Isobaric Combustion Engines. , 0, , .		7
26	Numerical investigation of the effect of injection strategy on a high-pressure isobaric combustion engine. <i>International Journal of Engine Research</i> , 2023, 24, 595-609.	1.4	7
27	Computational study of the multi-injector isobaric combustion concept in a heavy-duty compression ignition engine. <i>Fuel</i> , 2022, 326, 125099.	3.4	6
28	Computational Investigation of the Effects of Injection Strategy and Rail Pressure on Isobaric Combustion in an Optical Compression Ignition Engine. , 0, , .		4
29	Numerical Investigation of the Combustion Kinetics of Partially Premixed Combustion (PPC) Fueled with Primary Reference Fuel. , 0, , .		2
30	Investigation of the Engine Combustion Network Spray A Characteristics using Eulerian and Lagrangian Models. , 0, , .		2