

Zunhua Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

653
citations

471371

17
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all docs

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docs citations

29
times ranked

416
citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental and kinetic modeling study on the effects of reformat gas addition on the laminar burning velocities of natural gas. <i>Fuel</i> , 2022, 311, 122570.	3.4	1
2	Hydrogen-rich gas generation via the exhaust gas-fuel reformer for the marine LNG engine. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 14674-14686.	3.8	12
3	Experimental and kinetic studies of laminar burning velocities of ammonia with high Lewis number at elevated pressures. <i>Fuel</i> , 2022, 320, 123913.	3.4	9
4	Experimental study on characteristics of hydrogen production from exhaust gas-fuel reforming in a catalytic fixed-bed reactor. <i>Fuel</i> , 2021, 290, 120068.	3.4	23
5	Application of reformed exhaust gas recirculation on marine LNG engines for NO emission control. <i>Fuel</i> , 2021, 291, 120114.	3.4	28
6	Numerical investigation of tubular exhaust reformer with thermochemical recuperation for LNG engine. <i>International Journal of Heat and Mass Transfer</i> , 2020, 146, 118743.	2.5	7
7	Ignition characteristics of ethanol-hydrogen mixtures with different hydrogen contents at elevated initial temperatures. <i>Fuel</i> , 2020, 281, 118742.	3.4	7
8	Effect of water content on premixed laminar flames of hydrous acetone-n-butanol-ethanol (ABE)-air mixtures: An experimental and numerical study. <i>Fuel</i> , 2019, 254, 115625.	3.4	3
9	Performance and emissions characteristics of a lean-burn marine natural gas engine with the addition of hydrogen-rich reformat. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 31544-31556.	3.8	38
10	Studies of high pressure 1,3-butadiene flame speeds and high temperature kinetics using hydrogen and oxygen sensitization. <i>Combustion and Flame</i> , 2019, 200, 135-141.	2.8	15
11	Experimental and kinetic studies of ignition processes of the methane-n-heptane mixtures. <i>Fuel</i> , 2019, 235, 522-529.	3.4	37
12	Effect of ignition energy on the uncertainty in the determination of laminar flame speed using outwardly propagating spherical flames. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 1615-1622.	2.4	21
13	Experimental and kinetic studies of premixed laminar flame of acetone-butanol-ethanol (ABE)/air. <i>Fuel</i> , 2018, 211, 95-101.	3.4	16
14	Experimental and modeling study of the mutual oxidation of N-pentane and nitrogen dioxide at low and high temperatures in a jet stirred reactor. <i>Energy</i> , 2018, 165, 727-738.	4.5	52
15	The uncertainty of laminar burning velocity of premixed H ₂ -air flame induced by the non-uniform initial temperature field inside the constant-volume combustion vessel. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 21049-21059.	3.8	11
16	Kinetic Effects of n-Heptane Addition on Low and High Temperature Oxidation of Methane in a Jet-Stirred Reactor. <i>Energy & Fuels</i> , 2018, 32, 11970-11978.	2.5	17
17	Effects of reformed exhaust gas recirculation on the HC and CO emissions of a spark-ignition engine fueled with LNG. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 21070-21078.	3.8	25
18	Numerical simulation of exhaust reforming characteristics in catalytic fixed-bed reactors for a natural gas engine. <i>Chemical Engineering Science</i> , 2018, 191, 200-207.	1.9	25

#	ARTICLE	IF	CITATIONS
19	Experimental and kinetic studies of the effect of CO ₂ dilution on laminar premixed n-heptane/air flames. <i>Fuel</i> , 2018, 227, 355-366.	3.4	37
20	Studies of low temperature oxidation of n-pentane with nitric oxide addition in a jet stirred reactor. <i>Combustion and Flame</i> , 2018, 197, 78-87.	2.8	56
21	Numerical study of combustion characteristics of a natural gas HCCI engine with closed loop exhaust-gas fuel reforming. <i>Applied Thermal Engineering</i> , 2017, 119, 430-437.	3.0	25
22	Effect of Ignition Energy on the Initial Propagation of Ethanol/Air Laminar Premixed Flames: An Experimental Study. <i>Energy & Fuels</i> , 2017, 31, 10023-10031.	2.5	14
23	Numerical study of exhaust reforming characteristics on hydrogen production for a marine engine fueled with LNG. <i>Applied Thermal Engineering</i> , 2017, 124, 241-249.	3.0	29
24	Experimental Investigation on Laminar Burning Velocities and Markstein Lengths of Premixed Methane-n-Heptane-Air Mixtures. <i>Energy & Fuels</i> , 2015, 29, 4549-4556.	2.5	32
25	Experimental and Numerical Studies on Laminar Premixed Flames of Ethanol-Water-Air Mixtures. <i>Energy & Fuels</i> , 2014, 28, 4754-4761.	2.5	24
26	A novel strategy for hydrous-ethanol utilization: Demonstration of a spark-ignition engine fueled with hydrogen-rich fuel from an onboard ethanol/steam reformer. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 5936-5948.	3.8	29
27	Effects of hydrogen addition on the premixed laminar-flames of ethanol-air gaseous mixtures: An experimental study. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4490-4501.	3.8	26
28	Experimental determination of laminar burning velocities and Markstein lengths for 75% hydrous-ethanol, hydrogen and air gaseous mixtures. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 13194-13206.	3.8	33
29	Insight into High-temperature Ignition Processes of Methane-T425 Mixtures at Various Methane Contents: Experimental and Chemical Kinetic Analysis. <i>Combustion Science and Technology</i> , 0, , 1-18.	1.2	1