

Gaurav Mittal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6309229/publications.pdf>

Version: 2024-02-01

26
papers

1,670
citations

430754

18
h-index

552653

26
g-index

26
all docs

26
docs citations

26
times ranked

984
citing authors

#	ARTICLE	IF	CITATIONS
1	A RAPID COMPRESSION MACHINE FOR CHEMICAL KINETICS STUDIES AT ELEVATED PRESSURES AND TEMPERATURES. <i>Combustion Science and Technology</i> , 2007, 179, 497-530.	1.2	193
2	Aerodynamics inside a rapid compression machine. <i>Combustion and Flame</i> , 2006, 145, 160-180.	2.8	171
3	An aerosol rapid compression machine for studying energetic-nanoparticle-enhanced combustion of liquid fuels. <i>Proceedings of the Combustion Institute</i> , 2011, 33, 3367-3374.	2.4	152
4	Autoignition of ethanol in a rapid compression machine. <i>Combustion and Flame</i> , 2014, 161, 1164-1171.	2.8	148
5	Dimethyl ether autoignition in a rapid compression machine: Experiments and chemical kinetic modeling. <i>Fuel Processing Technology</i> , 2008, 89, 1244-1254.	3.7	143
6	Autoignition of H ₂ /CO at elevated pressures in a rapid compression machine. <i>International Journal of Chemical Kinetics</i> , 2006, 38, 516-529.	1.0	124
7	Autoignition of toluene and benzene at elevated pressures in a rapid compression machine. <i>Combustion and Flame</i> , 2007, 150, 355-368.	2.8	101
8	An experimental investigation of ethylene/O ₂ /diluent mixtures: Laminar flame speeds with preheat and ignition delays at high pressures. <i>Combustion and Flame</i> , 2008, 153, 343-354.	2.8	92
9	Autoignition of n-decane under elevated pressure and low-to-intermediate temperature conditions. <i>Combustion and Flame</i> , 2009, 156, 1278-1288.	2.8	75
10	Ignition delay study of moist hydrogen/oxidizer mixtures using a rapid compression machine. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6901-6911.	3.8	67
11	CFD modeling of two-stage ignition in a rapid compression machine: Assessment of zero-dimensional approach. <i>Combustion and Flame</i> , 2010, 157, 1316-1324.	2.8	62
12	Autoignition of methylcyclohexane at elevated pressures. <i>Combustion and Flame</i> , 2009, 156, 1852-1855.	2.8	60
13	Computational fluid dynamics modeling of hydrogen ignition in a rapid compression machine. <i>Combustion and Flame</i> , 2008, 155, 417-428.	2.8	49
14	A rapid compression machine with crevice containment. <i>Combustion and Flame</i> , 2013, 160, 2975-2981.	2.8	38
15	Vortex formation in a rapid compression machine: Influence of physical and operating parameters. <i>Fuel</i> , 2012, 94, 409-417.	3.4	37
16	A computationally efficient, physics-based model for simulating heat loss during compression and the delay period in RCM experiments. <i>Combustion and Flame</i> , 2012, 159, 3476-3492.	2.8	36
17	Homogeneous charge compression ignition of binary fuel blends. <i>Combustion and Flame</i> , 2008, 155, 431-439.	2.8	31
18	A numerical assessment of the novel concept of crevice containment in a rapid compression machine. <i>Combustion and Flame</i> , 2011, 158, 2420-2427.	2.8	22

#	ARTICLE	IF	CITATIONS
19	Computational assessment of an approach for implementing crevice containment in rapid compression machines. <i>Fuel</i> , 2012, 102, 536-544.	3.4	18
20	Interpretation of experimental data from rapid compression machines without creviced pistons. <i>Combustion and Flame</i> , 2014, 161, 75-83.	2.8	16
21	Effect of crevice mass transfer in a rapid compression machine. <i>Combustion and Flame</i> , 2014, 161, 398-404.	2.8	15
22	Computational Investigation of the Double-Injection Strategy on Ethanol Partially Premixed Compression Ignition. <i>Energy & Fuels</i> , 2017, 31, 11280-11290.	2.5	8
23	Acetone photophysics at 282Ånm excitation at elevated pressure and temperature. I: absorption and fluorescence experiments. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	1.1	6
24	Acetone Tracer Laser-Induced Fluorescence (LIF) at 282Ånm Excitation as a Diagnostic Tool in Elevated Pressure and Temperature Systems. <i>Applied Spectroscopy</i> , 2019, 73, 395-402.	1.2	3
25	Effect of initial turbulence on combustion with ECFM-3Z model in a CI engine. <i>Materials Today: Proceedings</i> , 2021, 46, 11007-11010.	0.9	2
26	System Validation Experiments for Obtaining Tracer Laser-Induced Fluorescence Data at Elevated Pressure and Temperature. <i>Applied Spectroscopy</i> , 2018, 72, 618-626.	1.2	1