

Richard

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,992
citations

471509

17
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

1596
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal particle combustion and nanotechnology. Proceedings of the Combustion Institute, 2009, 32, 1819-1838.	3.9	680
2	Metal-based nanoenergetic materials: Synthesis, properties, and applications. Progress in Energy and Combustion Science, 2017, 61, 293-365.	31.2	289
3	Functionalized Graphene Sheet Colloids for Enhanced Fuel/Propellant Combustion. ACS Nano, 2009, 3, 3945-3954.	14.6	221
4	Combustion of bimodal nano/micron-sized aluminum particle dust in air. Proceedings of the Combustion Institute, 2007, 31, 2001-2009.	3.9	178
5	Autoignition of H ₂ /CO at elevated pressures in a rapid compression machine. International Journal of Chemical Kinetics, 2006, 38, 516-529.	1.6	124
6	Enhanced Thermal Decomposition of Nitromethane on Functionalized Graphene Sheets: Ab Initio Molecular Dynamics Simulations. Journal of the American Chemical Society, 2012, 134, 19011-19016.	13.7	83
7	Energetic intermetallic materials formed by cold spray. Intermetallics, 2013, 43, 121-130.	3.9	46
8	Comparison of global and local sensitivity techniques for rate constants determined using complex reaction mechanisms. International Journal of Chemical Kinetics, 2001, 33, 784-802.	1.6	43
9	Flow reactor studies of methyl radical oxidation reactions in methane-perturbed moist carbon monoxide oxidation at high pressure with model sensitivity analysis. International Journal of Chemical Kinetics, 2001, 33, 75-100.	1.6	37
10	Kinetics of plasma assisted pyrolysis and oxidation of ethylene. Part 2: Kinetic modeling studies. Combustion and Flame, 2017, 176, 462-478.	5.2	35
11	Control of nanoenergetics through organized microstructures. Journal of Micromechanics and Microengineering, 2012, 22, 055011.	2.6	33
12	Combustion Performance of Several Nanosilicon-Based Nanoenergetics. Journal of Propulsion and Power, 2013, 29, 1435-1444.	2.2	30
13	Progress towards nanoengineered energetic materials. Proceedings of the Combustion Institute, 2021, 38, 57-81.	3.9	29
14	Molecular Aluminum Additive for Burn Enhancement of Hydrocarbon Fuels. Journal of Physical Chemistry A, 2015, 119, 11084-11093.	2.5	28
15	Kinetic modeling and sensitivity analysis of plasma-assisted oxidation in a H ₂ /O ₂ /Ar mixture. Combustion and Flame, 2016, 164, 239-249.	5.2	28
16	Thermal and Electrolytic Decomposition and Ignition of HAN-Water Solutions. Combustion Science and Technology, 2015, 187, 1065-1078.	2.3	27
17	Flow reactor studies of non-equilibrium plasma-assisted oxidation of <i>n</i> -alkanes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140344.	3.4	23
18	Functionalized graphene sheet as a dispersible fuel additive for catalytic decomposition of methylcyclohexane. Combustion and Flame, 2020, 217, 212-221.	5.2	16

#	ARTICLE	IF	CITATIONS
19	Development of Meso-Scale Co-Fired Ceramic Tape Axisymmetric Combustors. International Journal of Applied Ceramic Technology, 2012, 9, 833-846.	2.1	12
20	Reactive Wave Propagation Mechanisms in Energetic Porous Silicon Composites. Combustion Science and Technology, 2015, 187, 249-268.	2.3	8
21	Multifunctional Graphene-Based Additives for Enhanced Combustion of Cracked Hydrocarbon Fuels under Supercritical Conditions. Combustion Science and Technology, 2020, 192, 1420-1435.	2.3	7
22	Polyoxometalate Clusters Supported on Functionalized Graphene Sheets as Nanohybrids for the Catalytic Combustion of Liquid Fuels. Materials Research Society Symposia Proceedings, 2012, 1451, 137-143.	0.1	5
23	Iron carburization in CO-H ₂ -He gases, Part I: Experiment. International Journal of Chemical Kinetics, 2009, 41, 327-336.	1.6	4
24	Design, fabrication and analysis of stagnation flow microreactors used to study hypergolic reactions. Lab on A Chip, 2015, 15, 2248-2257.	6.0	3
25	Iron carburization in CO-H ₂ -He gases, Part II: Numerical model. International Journal of Chemical Kinetics, 2009, 41, 337-348.	1.6	2
26	Flow reactor studies of methyl radical oxidation reactions in methane-perturbed moist carbon monoxide oxidation at high pressure with model sensitivity analysis. , 2001, 33, 75.		1