Amin Paykani

List of Publications by Year
in descending order

31	1,143	567144 15	477173 29
papers	citations	h-index	g-index

31	31	31	848
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis gas as a fuel for internal combustion engines in transportation. Progress in Energy and Combustion Science, 2022, 90, 100995.	15.8	44
2	Reactivity controlled compression ignition engine: Pathways towards commercial viability. Applied Energy, 2021, 282, 116174.	5.1	43
3	Comparative Study on Chemical Kinetics Mechanisms for Methane-Based Fuel Mixtures under Engine-Relevant Conditions. Energies, 2021, 14, 2834.	1.6	7
4	Computational optimization of CH4/H2/CO blends in a spark-ignition engine using quasi-dimensional combustion model. Fuel, 2021, 303, 121281.	3.4	10
5	Effect of injection strategies on a single-fuel RCCI combustion fueled with isobutanol/isobutanolâ€¯+â€¯DTBP blends. Fuel, 2020, 278, 118219.	3.4	36
6	Effect of Syngas Composition on the Combustion and Emissions Characteristics of a Syngas/Diesel RCCI Engine. Energies, 2020, 13, 212.	1.6	35
7	Numerical optimization of methane-based fuel blends under engine-relevant conditions using a multi-objective genetic algorithm. Applied Energy, 2019, 242, 1712-1724.	5.1	17
8	Numerical Study of Natural Gas/Diesel Reactivity Controlled Compression Ignition Combustion with Large Eddy Simulation and Reynolds-Averaged Navierâ€“Stokes Model. Fluids, 2018, 3, 24.	0.8	8
9	A numerical study of the effects of using hydrogen, reformer gas and nitrogen on combustion, emissions and load limits of a heavy duty natural gas/diesel RCCI engine. Applied Energy, 2017, 193, 182-198.	5.1	81
10	A numerical study of the effects of reformer gas composition on the combustion and emission characteristics of a natural gas/diesel RCCI engine enriched with reformer gas. Fuel, 2017, 209, 742-753.	3.4	43
11	Effects of piston bowl geometry on combustion and emissions characteristics of a natural gas/diesel RCCI engine. Applied Thermal Engineering, 2016, 102, 1462-1472.	3.0	72
12	Progress and recent trends in reactivity-controlled compression ignition engines. International Journal of Engine Research, 2016, 17, 481-524.	1.4	156
13	A parametric study on the performance of a Ranque-Hilsch vortex tube using a CFD-based approach. Mechanics and Industry, 2015, 16, 203.	0.5	2
14	CFD Study of Reactivity Controlled Compression Ignition (RCCI) Combustion in a Heavy-Duty Diesel Engine. Periodica Polytechnica Transportation Engineering, 2015, 43, 177-183.	0.7	11
15	Combining artificial neural network and multi-objective optimization to reduce a heavy-duty diesel engine emissions and fuel consumption. Journal of Central South University, 2015, 22, 4235-4245.	1.2	16
16	Influence of fuel composition on combustion and emissions characteristics of natural gas/diesel RCCI engine. Journal of Natural Gas Science and Engineering, 2015, 25, 58-65.	2.1	113
17	Effects of diesel injection strategy on natural gas/diesel reactivity controlled compression ignition combustion. Energy, 2015, 90, 814-826.	4.5	127
18	EFFECT OF RADIATION HEAT TRANSFER ON HCCI MULTIZONE COMBUSTION. Heat Transfer Research, 2014, 45, 23-41.	0.9	4

#	Article	IF	Citations
19	Design and energy absorption enhancement of vehicle hull under high dynamic loads. Journal of Central South University, 2014, 21, 1307-1312.	1.2	5
20	The influence of fuel composition on the combustion and emission characteristics of natural gas fueled engines. Renewable and Sustainable Energy Reviews, 2014, 38, 64-78.	8.2	130
21	Optimization of suspension system of off-road vehicle for vehicle performance improvement. Journal of Central South University, 2013, 20, 902-910.	1.2	41
22	Research and development of natural-gas fueled engines in Iran. Renewable and Sustainable Energy Reviews, 2013, 26, 805-821.	8.2	59
23	Finite Element Analysis and Experimental Study of Stress Distribution in Straight Frog of Railway Needle. Journal of Failure Analysis and Prevention, 2013, 13, 72-79.	0.5	0
24	Convergence of shape optimization calculations of mechanical components using adaptive biological growth and iterative finite element methods. Journal of Central South University, 2013, 20, 76-82.	1.2	1
25	Numerical Study of Diodicity Mechanism in Different Tesla-Type Microvalves. Journal of Applied Research and Technology, 2013, 11, 876-885.	0.6	30
26	Modified Characteristics-Based Schemes for Compressible Flow Past an Airfoil. Journal of Mechanics, 2012, 28, 627-635.	0.7	3
27	Effect of exhaust gas recirculation and intake pre-heating on performance and emission characteristics of dual fuel engines at part loads. Journal of Central South University, 2012, 19, 1346-1352.	1.2	27
28	Design of a Composite Drive Shaft and its Coupling for Automotive Application. Journal of Applied Research and Technology, 2012, 10, .	0.6	14
29	Failure Analysis of Howell-Bunger Valve Using Finite Element Method. Journal of Failure Analysis and Prevention, 2011, 11, 710-717.	0.5	0
30	Numerical investigation on the position of holes for reducing stress concentration in composite plates with bolted and riveted joints. Theoretical and Applied Mechanics Letters, 2011, 1, 041005.	1.3	5
31	A comparative study of hybrid electric vehicle fuel consumption over diverse driving cycles. Theoretical and Applied Mechanics Letters, 2011, 1, 052005.	1.3	3