

Amin Paykani

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,143
citations

567144

15
h-index

477173

29
g-index

31
all docs

31
docs citations

31
times ranked

848
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Progress and recent trends in reactivity-controlled compression ignition engines. International Journal of Engine Research, 2016, 17, 481-524. | 1.4 | 156 |
| 2 | 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 |
| 3 | Effects of diesel injection strategy on natural gas/diesel reactivity controlled compression ignition combustion. Energy, 2015, 90, 814-826. | 4.5 | 127 |
| 4 | 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 |
| 5 | 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 |
| 6 | 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 |
| 7 | Research and development of natural-gas fueled engines in Iran. Renewable and Sustainable Energy Reviews, 2013, 26, 805-821. | 8.2 | 59 |
| 8 | Synthesis gas as a fuel for internal combustion engines in transportation. Progress in Energy and Combustion Science, 2022, 90, 100995. | 15.8 | 44 |
| 9 | 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 |
| 10 | Reactivity controlled compression ignition engine: Pathways towards commercial viability. Applied Energy, 2021, 282, 116174. | 5.1 | 43 |
| 11 | Optimization of suspension system of off-road vehicle for vehicle performance improvement. Journal of Central South University, 2013, 20, 902-910. | 1.2 | 41 |
| 12 | Effect of injection strategies on a single-fuel RCCI combustion fueled with isobutanol/isobutanol+DTBP blends. Fuel, 2020, 278, 118219. | 3.4 | 36 |
| 13 | Effect of Syngas Composition on the Combustion and Emissions Characteristics of a Syngas/Diesel RCCI Engine. Energies, 2020, 13, 212. | 1.6 | 35 |
| 14 | Numerical Study of Diodicity Mechanism in Different Tesla-Type Microvalves. Journal of Applied Research and Technology, 2013, 11, 876-885. | 0.6 | 30 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | Design of a Composite Drive Shaft and its Coupling for Automotive Application. Journal of Applied Research and Technology, 2012, 10, . | 0.6 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | CFD Study of Reactivity Controlled Compression Ignition (RCCI) Combustion in a Heavy-Duty Diesel Engine. <i>Periodica Polytechnica Transportation Engineering</i> , 2015, 43, 177-183. | 0.7 | 11 |
| 20 | Computational optimization of CH ₄ /H ₂ /CO blends in a spark-ignition engine using quasi-dimensional combustion model. <i>Fuel</i> , 2021, 303, 121281. | 3.4 | 10 |
| 21 | Numerical Study of Natural Gas/Diesel Reactivity Controlled Compression Ignition Combustion with Large Eddy Simulation and Reynolds-Averaged Navier–Stokes Model. <i>Fluids</i> , 2018, 3, 24. | 0.8 | 8 |
| 22 | Comparative Study on Chemical Kinetics Mechanisms for Methane-Based Fuel Mixtures under Engine-Relevant Conditions. <i>Energies</i> , 2021, 14, 2834. | 1.6 | 7 |
| 23 | Numerical investigation on the position of holes for reducing stress concentration in composite plates with bolted and riveted joints. <i>Theoretical and Applied Mechanics Letters</i> , 2011, 1, 041005. | 1.3 | 5 |
| 24 | Design and energy absorption enhancement of vehicle hull under high dynamic loads. <i>Journal of Central South University</i> , 2014, 21, 1307-1312. | 1.2 | 5 |
| 25 | EFFECT OF RADIATION HEAT TRANSFER ON HCCI MULTIZONE COMBUSTION. <i>Heat Transfer Research</i> , 2014, 45, 23-41. | 0.9 | 4 |
| 26 | A comparative study of hybrid electric vehicle fuel consumption over diverse driving cycles. <i>Theoretical and Applied Mechanics Letters</i> , 2011, 1, 052005. | 1.3 | 3 |
| 27 | Modified Characteristics-Based Schemes for Compressible Flow Past an Airfoil. <i>Journal of Mechanics</i> , 2012, 28, 627-635. | 0.7 | 3 |
| 28 | A parametric study on the performance of a Ranque-Hilsch vortex tube using a CFD-based approach. <i>Mechanics and Industry</i> , 2015, 16, 203. | 0.5 | 2 |
| 29 | Convergence of shape optimization calculations of mechanical components using adaptive biological growth and iterative finite element methods. <i>Journal of Central South University</i> , 2013, 20, 76-82. | 1.2 | 1 |
| 30 | Failure Analysis of Howell-Bunger Valve Using Finite Element Method. <i>Journal of Failure Analysis and Prevention</i> , 2011, 11, 710-717. | 0.5 | 0 |
| 31 | Finite Element Analysis and Experimental Study of Stress Distribution in Straight Frog of Railway Needle. <i>Journal of Failure Analysis and Prevention</i> , 2013, 13, 72-79. | 0.5 | 0 |