

Sumit Roy

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26

papers

631

citations

13

h-index

25

g-index

32

ext. papers

750

ext. citations

6

avg, IF

4.44

L-index

#	Paper	IF	Citations
26	The techno-economics potential of hydrogen interconnectors for electrical energy transmission and storage. <i>Journal of Cleaner Production</i> , 2022 , 335, 130045	10.3	2
25	The performance and efficiency of novel oxy-hydrogen-argon gas power cycles for zero emission power generation. <i>Energy Conversion and Management</i> , 2021 , 244, 114510	10.6	0
24	Development and validation of an artificial intelligence platform for characterization of the exergy-emission-stability profiles of the PPCI-RCCI regimes in a diesel-methanol operation under varying injection phasing strategies: A Gene Expression Programming approach. <i>Fuel</i> , 2021 , 299, 120864	7.1	6
23	A combined heat and green hydrogen (CHH) generator integrated with a heat network. <i>Energy Conversion and Management</i> , 2021 , 246, 114686	10.6	0
22	Evaluation of performance characteristics of a novel hydrogen-fuelled free-piston engine generator. <i>International Journal of Hydrogen Energy</i> , 2020 ,	6.7	7
21	Effective utilisation of waste cooking oil in a single-cylinder diesel engine using alumina nanoparticles. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 571-581	5.8	9
20	Realization of a Novel Free-Piston Engine Generator for Hybrid-Electric Vehicle Applications. <i>Energy & Fuels</i> , 2020 , 34, 12926-12939	4.1	6
19	Development of an artificial neural network based virtual sensing platform for the simultaneous prediction of emission-performance-stability parameters of a diesel engine operating in dual fuel mode with port injected methanol. <i>Energy Conversion and Management</i> , 2019 , 184, 488-509	10.6	34
18	Performance Emission Characterization of a LPG-Diesel Dual Fuel Operation: A Gene Expression Programming Approach. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 405-414	0.4	4
17	Performance Analysis of a Flexi-Fuel Turbine-Combined Free-Piston Engine Generator. <i>Energies</i> , 2019 , 12, 2657	3.1	2
16	Isolation of the parametric effects of pre-blended fuel on low load gasoline compression ignition (GCI). <i>Fuel</i> , 2019 , 237, 522-535	7.1	20
15	Characterization of performance-emission indices of a diesel engine using ANFIS operating in dual-fuel mode with LPG. <i>Heat and Mass Transfer</i> , 2018 , 54, 2725-2742	2.2	7
14	Multi-objective optimization of the performance-emission trade-off characteristics of a CRDI coupled CNG diesel dual-fuel operation: A GEP meta-model assisted MOGA endeavour. <i>Fuel</i> , 2018 , 211, 891-897	7.1	11
13	ANN meta-model assisted MOPSO application in an EPA-Tier 4 constrained emission-performance trade-off calibration problem of a hydrogen-diesel-EGR dual fuel operation. <i>Fuel</i> , 2017 , 208, 746-778	7.1	7
12	Application of artificial intelligence (AI) in characterization of the performance-emission profile of a single cylinder CI engine operating with hydrogen in dual fuel mode: An ANN approach with fuzzy-logic based topology optimization. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 14330-14350	6.7	31
11	An experimental investigation on the potential of hydrogen-Biohol synergy in the performance-emission trade-off paradigm of a diesel engine. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 3712-3739	6.7	13
10	An experimental based ANN approach in mapping performance-emission characteristics of a diesel engine operating in dual-fuel mode with LPG. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 28, 15-30	4.6	41

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| 9 | Hydrogen-EGR synergy as a promising pathway to meet the PM ₁₀ /OxBSFC trade-off contingencies of the diesel engine: A comprehensive review. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 12824-12847 ⁵⁰ | 6.7 | 50 |
| 8 | Adaptive-neuro fuzzy inference system (ANFIS) based prediction of performance and emission parameters of a CRDI assisted diesel engine under CNG dual-fuel operation. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 27, 274-283 | 4.6 | 17 |
| 7 | Development and validation of a GEP model to predict the performance and exhaust emission parameters of a CRDI assisted single cylinder diesel engine coupled with EGR. <i>Applied Energy</i> , 2015 , 140, 52-64 | 10.7 | 37 |
| 6 | Performance and exhaust emissions prediction of a CRDI assisted single cylinder diesel engine coupled with EGR using artificial neural network. <i>Applied Energy</i> , 2014 , 119, 330-340 | 10.7 | 143 |
| 5 | Application of Grey Taguchi based multi-objective optimization strategy to calibrate the PM ₁₀ /HCBSFC trade-off characteristics of a CRDI assisted CNG dual-fuel engine. <i>Journal of Natural Gas Science and Engineering</i> , 2014 , 21, 524-531 | 4.6 | 46 |
| 4 | Development of an ANN based system identification tool to estimate the performance-emission characteristics of a CRDI assisted CNG dual fuel diesel engine. <i>Journal of Natural Gas Science and Engineering</i> , 2014 , 21, 147-158 | 4.6 | 61 |
| 3 | A TMI based CNG dual-fuel approach to address the soot ₁₀ /OxBSFC trade-off characteristics of a CRDI assisted diesel engine in EPA perspective. <i>Journal of Natural Gas Science and Engineering</i> , 2014 , 20, 221-240 | 4.6 | 20 |
| 2 | ANN metamodel assisted Particle Swarm Optimization of the performance-emission trade-off characteristics of a single cylinder CRDI engine under CNG dual-fuel operation. <i>Journal of Natural Gas Science and Engineering</i> , 2014 , 21, 1156-1162 | 4.6 | 21 |
| 1 | A comparative study of GEP and an ANN strategy to model engine performance and emission characteristics of a CRDI assisted single cylinder diesel engine under CNG dual-fuel operation. <i>Journal of Natural Gas Science and Engineering</i> , 2014 , 21, 814-828 | 4.6 | 32 |