

Bahman Najafi

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,383
citations

394286

19
h-index

360920

35
g-index

36
all docs

36
docs citations

36
times ranked

1571
citing authors

#	ARTICLE	IF	CITATIONS
1	Computational intelligence approach for modeling hydrogen production: a review. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 438-458.	1.5	154
2	A novel emulsion fuel containing aqueous nano cerium oxide additive in diesel/biodiesel blends to improve diesel engines performance and reduce exhaust emissions: Part I "Experimental analysis. <i>Fuel</i> , 2017, 207, 741-750.	3.4	128
3	Experimental and computational fluid dynamics-based numerical simulation of using natural gas in a dual-fueled diesel engine. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 517-534.	1.5	120
4	A novel emulsion fuel containing aqueous nano cerium oxide additive in diesel/biodiesel blends to improve diesel engines performance and reduce exhaust emissions: Part II "Exergetic analysis. <i>Fuel</i> , 2017, 205, 262-271.	3.4	118
5	Application of ANFIS, ANN, and logistic methods in estimating biogas production from spent mushroom compost (SMC). <i>Resources, Conservation and Recycling</i> , 2018, 133, 169-178.	5.3	104
6	Application of ANNs, ANFIS and RSM to estimating and optimizing the parameters that affect the yield and cost of biodiesel production. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2018, 12, 611-624.	1.5	98
7	An Intelligent Artificial Neural Network-Response Surface Methodology Method for Accessing the Optimum Biodiesel and Diesel Fuel Blending Conditions in a Diesel Engine from the Viewpoint of Energy and Energy Analysis. <i>Energies</i> , 2018, 11, 860.	1.6	68
8	Environmental impact assessment of the mechanical shaft work produced in a diesel engine running on diesel/biodiesel blends containing glycerol-derived triacetin. <i>Journal of Cleaner Production</i> , 2019, 223, 466-486.	4.6	58
9	Experimental investigation of low-level water in waste-oil produced biodiesel-diesel fuel blend. <i>Energy</i> , 2017, 121, 331-340.	4.5	55
10	Energy and exergy analysis of combined ORC " ERC system for biodiesel-fed diesel engine waste heat recovery. <i>Energy Conversion and Management</i> , 2020, 209, 112658.	4.4	44
11	Using SVM-RSM and ELM-RSM Approaches for Optimizing the Production Process of Methyl and Ethyl Esters. <i>Energies</i> , 2018, 11, 2889.	1.6	41
12	Effects of waste-derived ethylene glycol diacetate as a novel oxygenated additive on performance and emission characteristics of a diesel engine fueled with diesel/biodiesel blends. <i>Energy Conversion and Management</i> , 2020, 203, 112245.	4.4	39
13	Modeling of a dual fueled diesel engine operated by a novel fuel containing glycerol triacetate additive and biodiesel using artificial neural network tuned by genetic algorithm to reduce engine emissions. <i>Energy</i> , 2019, 168, 1128-1137.	4.5	37
14	A novel fuel containing glycerol triacetate additive, biodiesel and diesel blends to improve dual-fuelled diesel engines performance and exhaust emissions. <i>Fuel</i> , 2019, 236, 666-676.	3.4	36
15	Castor oil, a source for biodiesel production and its impact on the diesel engine performance. <i>Renewable Energy Focus</i> , 2019, 28, 1-10.	2.2	33
16	Limiting factors for the use of palm oil biodiesel in a diesel engine in the context of the ASTM standard. <i>Cogent Engineering</i> , 2017, 4, 1411221.	1.1	30
17	Evaluation of Al_2O_3 -PW nanocomposites for thermal energy storage in the agro-products solar dryer. <i>Journal of Energy Storage</i> , 2020, 28, 101181.	3.9	29
18	A novel enhanced exergy method in analyzing HVAC system using soft computing approaches: A case study on mushroom growing hall. <i>Journal of Building Engineering</i> , 2017, 13, 309-318.	1.6	25

#	ARTICLE	IF	CITATIONS
19	Effects of triethylene glycol mono methyl ether (TGME) as a novel oxygenated additive on emission and performance of a dual-fuel diesel engine fueled with natural gas-diesel/biodiesel. <i>Energy Reports</i> , 2021, 7, 1172-1189.	2.5	22
20	Fuzzy logic method for the prediction of cetane number using carbon number, double bounds, iodine, and saponification values of biodiesel fuels. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, 584-599.	1.3	21
21	Limiting factors for biogas production from cow manure: energy-environmental approach. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 954-966.	1.5	17
22	Performance and emission analysis of a dual-fuel engine operating on high natural gas substitution rates ignited by aqueous carbon nanoparticles-laden diesel/biodiesel emulsions. <i>Fuel</i> , 2021, 294, 120246.	3.4	16
23	Spent mushroom compost (SMC) as a source for biogas production in Iran. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 967-982.	1.5	14
24	Exergetic performance evaluation of a diesel engine powered by diesel/biodiesel mixtures containing oxygenated additive ethylene glycol diacetate. <i>Science of the Total Environment</i> , 2021, 792, 148435.	3.9	13
25	Optimization of performance and emission of compression ignition engine fueled with propylene glycol and biodiesel-diesel blends using artificial intelligence method of ANN-GA-RSM. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 413-425.	1.5	13
26	Developing a novel downdraft fixed bed gasifier for hydrogen production from sawdust to improve an SI engine exhaust emissions. <i>Renewable Energy Focus</i> , 2018, 27, 88-96.	2.2	8
27	Energy-exergy analysis of compression ignition engine running with biodiesel fuel extracted from four different oil-basis materials. <i>International Journal of Green Energy</i> , 2019, 16, 749-762.	2.1	8
28	The effect of thermochemical pre-treatment on biogas production efficiency from kitchen waste using a novel lab scale digester. <i>Renewable Energy Focus</i> , 2019, 28, 140-152.	2.2	6
29	Effects of low-level hydroxy as a gaseous additive on performance and emission characteristics of a dual fuel diesel engine fueled by diesel/biodiesel blends. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 236-250.	1.5	6
30	Prediction of Cetane Number of Biodiesel Fuel from Fatty Acid Ethyl Ester (FAEE) Composition. <i>Indian Journal of Science and Technology</i> , 2015, 8, .	0.5	6
31	Thermodynamic analysis of a four-stroke compression ignition engine fueled by corn biodiesel blends and pure diesel. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, , 1-20.	1.2	5
32	Ethyl ester production from Iranian bitter almond (BAO) oil to improve the performance and emissions of OM457 diesel engine. <i>Renewable Energy Focus</i> , 2020, 33, 16-22.	2.2	3
33	Modelling the Effects of Al ₂ O ₃ -SiO ₂ Nanocomposite Additive in Biodiesel-Diesel Fuel on Diesel Engine Performance Using Hybrid ANN-ABC. <i>Acta Technologica Agriculturae</i> , 2021, 24, 20-26.	0.2	3
34	Different scenarios of glycerin conversion to combustible products and their effects on compression ignition engine as fuel additive: a review. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1191-1228.	1.5	3
35	Comparative of various bio-inspired meta-heuristic optimization algorithms in performance and emissions of diesel engine fuelled with B5 containing water and cerium oxide additive blends. <i>International Journal of Energy Research</i> , 2022, 46, 21266-21280.	2.2	2
36	Methane Production Potential of Azolla Under Different Ratios of C/N, Chemical and Thermal Pre-Treatment. <i>Acta Technologica Agriculturae</i> , 2020, 23, 126-131.	0.2	0