Bahman Najafi

List of Publications by Year
in descending order

36	1,383	394286	360920
papers	citations	19 h-index	35 g-index

36	36	36	1571
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparative of various <scp>bioâ€inspired metaâ€heuristic</scp> optimization algorithms in performance and emissionsÂof diesel engine fuelled with <scp>B5</scp> containing water and cerium oxide additive blends. International Journal of Energy Research, 2022, 46, 21266-21280.	2.2	2
2	Modelling the Effects of Al₂O³-SiO₂ Nanocomposite Additive in Biodieselâ€“Diesel Fuel on Diesel Engine Performance Using Hybrid ANN-ABC. Acta Technologica Agriculturae, 2021, 24, 20-26.	0.2	3
3	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. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 236-250.	1.5	6
4	Different scenarios of glycerin conversion to combustible products and their effects on compression ignition engine as fuel additive: a review. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 1191-1228.	1.5	3
5	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. Fuel, 2021, 294, 120246.	3.4	16
6	Exergetic performance evaluation of a diesel engine powered by diesel/biodiesel mixtures containing oxygenated additive ethylene glycol diacetate. Science of the Total Environment, 2021, 792, 148435.	3.9	13
7	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. Energy Reports, 2021, 7, 1172-1189.	2.5	22
8	Optimization of performance and emission of compression ignition engine fueled with propylene glycol and biodieselâ€“diesel blends using artificial intelligence method of ANN-GA-RSM. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 413-425.	1.5	13
9	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. Energy Conversion and Management, 2020, 203, 112245.	4.4	39
10	Evaluation of Î±-AL2O3-PW nanocomposites for thermal energy storage in the agro-products solar dryer. Journal of Energy Storage, 2020, 28, 101181.	3.9	29
11	Energy and exergy analysis of combined ORC â€“ ERC system for biodiesel-fed diesel engine waste heat recovery. Energy Conversion and Management, 2020, 209, 112658.	4.4	44
12	Ethyl ester production from Iranian bitter almond (BAO) oil to improve the performance and emissions of OM457 diesel engine. Renewable Energy Focus, 2020, 33, 16-22.	2.2	3
13	Methane Production Potential of Azolla Under Different Ratios of C/N, Chemical and Thermal Pre-Treatment. Acta Technologica Agriculturae, 2020, 23, 126-131.	0.2	0
14	Thermodynamic analysis of a four-stroke compression ignition engine fueled by corn biodiesel blends and pure diesel. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, , 1-20.	1.2	5
15	Spent mushroom compost (SMC) as a source for biogas production in Iran. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 967-982.	1.5	14
16	Limiting factors for biogas production from cow manure: energo-environmental approach. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 954-966.	1.5	17
17	Energy-exergy analysis of compression ignition engine running with biodiesel fuel extracted from four different oil-basis materials. International Journal of Green Energy, 2019, 16, 749-762.	2.1	8
18	Environmental impact assessment of the mechanical shaft work produced in a diesel engine running on diesel/biodiesel blends containing glycerol-derived triacetin. Journal of Cleaner Production, 2019, 223, 466-486.	4.6	58

#	Article	IF	Citations
19	The effect of thermochemical pre-treatment on biogas production efficiency from kitchen waste using a novel lab scale digester. Renewable Energy Focus, 2019, 28, 140-152.	2.2	6
20	A novel fuel containing glycerol triacetate additive, biodiesel and diesel blends to improve dual-fuelled diesel engines performance and exhaust emissions. Fuel, 2019, 236, 666-676.	3.4	36
21	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. Energy, 2019, 168, 1128-1137.	4.5	37
22	Castor oil, a source for biodiesel production and its impact on the diesel engine performance. Renewable Energy Focus, 2019, 28, 1-10.	2.2	33
23	Fuzzy logic method for the prediction of cetane number using carbon number, double bounds, iodic, and saponification values of biodiesel fuels. Environmental Progress and Sustainable Energy, 2019, 38, 584-599.	1.3	21
24	Computational intelligence approach for modeling hydrogen production: a review. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 438-458.	1.5	154
25	Application of ANFIS, ANN, and logistic methods in estimating biogas production from spent mushroom compost (SMC). Resources, Conservation and Recycling, 2018, 133, 169-178.	5.3	104
26	Using SVM-RSM and ELM-RSM Approaches for Optimizing the Production Process of Methyl and Ethyl Esters. Energies, 2018, 11, 2889.	1.6	41
27	Developing a novel downdraft fixed bed gasifier for hydrogen production from sawdust to improve an SI engine exhaust emissions. Renewable Energy Focus, 2018, 27, 88-96.	2.2	8
28	Experimental and computational fluid dynamics-based numerical simulation of using natural gas in a dual-fueled diesel engine. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 517-534.	1.5	120
29	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 Exergy and Energy Analysis. Energies, 2018, 11, 860.	1.6	68
30	Application of ANNs, ANFIS and RSM to estimating and optimizing the parameters that affect the yield and cost of biodiesel production. Engineering Applications of Computational Fluid Mechanics, 2018, 12, 611-624.	1.5	98
31	A novel emulsion fuel containing aqueous nano cerium oxide additive in dieselâ€“biodiesel blends to improve diesel engines performance and reduce exhaust emissions: Part I â€“ Experimental analysis. Fuel, 2017, 207, 741-750.	3.4	128
32	A novel emulsion fuel containing aqueous nano cerium oxide additive in dieselâ€“biodiesel blends to improve diesel engines performance and reduce exhaust emissions: Part II â€“ Exergetic analysis. Fuel, 2017, 205, 262-271.	3.4	118
33	Experimental investigation of low-level water in waste-oil produced biodiesel-diesel fuel blend. Energy, 2017, 121, 331-340.	4.5	55
34	A novel enhanced exergy method in analyzing HVAC system using soft computing approaches: A case study on mushroom growing hall. Journal of Building Engineering, 2017, 13, 309-318.	1.6	25
35	Limiting factors for the use of palm oil biodiesel in a diesel engine in the context of the ASTM standard. Cogent Engineering, 2017, 4, 1411221.	1.1	30
36	Prediction of Cetane Number of Biodiesel Fuel from Fatty Acid Ethyl Ester (FAEE) Composition. Indian Journal of Science and Technology, 2015, 8, .	0.5	6