Miqdam Tariq Chaichan

List of Publications by Year
in descending order

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104 papers	4,982 citations	93792 39 h-index	111975 67 g-index
107 all docs	107 docs citations	107 times ranked	2953 citing authors

#	Article	IF	Citations
1	A Comparative Study of Regression Models and Meteorological Parameters to Estimate the Global Solar Radiation on a Horizontal Surface for Baghdad City, Iraq. International Journal of Renewable Energy Development, 2022, 11, 71-81.	1.2	11
2	Prognostic of diesel engine emissions and performance based on an intelligent technique for nanoparticle additives. Energy, 2022, 238, 121855.	4.5	25
3	Stability and thermal conductivity of different nano-composite material prepared for thermal energy storage applications. South African Journal of Chemical Engineering, 2022, 39, 72-89.	1.2	9
4	Investigation the combined effects of exhaust gas recirculation (EGR) and alcohol-diesel blends in improvement of NOX-PM Trade-off in compression ignition (CI) diesel engine. IOP Conference Series: Earth and Environmental Science, 2022, 961, 012048.	0.2	2
5	PM and NOX emissions amelioration from the combustion of diesel/ethanol-methanol blends applying exhaust gas recirculation (EGR). IOP Conference Series: Earth and Environmental Science, 2022, 961, 012044.	0.2	2
6	Long-term power forecasting using FRNN and PCA models for calculating output parameters in solar photovoltaic generation. Heliyon, 2022, 8, e08803.	1.4	12
7	The Influence of Temperature and Irradiance on Performance of the photovoltaic panel in the Middle of Iraq. International Journal of Renewable Energy Development, 2022, 11, 501-513.	1.2	15
8	Design and experimental evaluation of a <scp>PV</scp> /T system cooled by advanced methods. International Journal of Energy Research, 2022, 46, 9684-9709.	2.2	8
9	Effect of dust and cleaning methods on mono and polycrystalline solar photovoltaic performance: An indoor experimental study. Solar Energy, 2022, 236, 626-643.	2.9	35
10	Effect of CuO-water-ethylene glycol nanofluids on the performance of photovoltaic/thermal energy system: an experimental study. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 3673-3691.	1.2	3
11	Nano-Iron Oxide-Ethylene Glycol-Water Nanofluid Based Photovoltaic Thermal (PV/T) System with Spiral Flow Absorber: An Energy and Exergy Analysis. Energies, 2022, 15, 3870.	1.6	10
12	Assessment Cooling of Photovoltaic Modules Using Underground Water. Arab Gulf Journal of Scientific Research, 2022, , 151-169.	0.3	3
13	Adding Nano-TiO2 to Water and Paraffin to Enhance Total Efficiency of a Photovoltaic Thermal PV/T System Subjected to Harsh Weathers. Nanomaterials, 2022, 12, 2266.	1.9	6
14	Ultralow Sulfur Diesel and Rapeseed Methyl Ester Fuel Impact on Performance, Emitted Regulated, Unregulated, and Nanoparticle Pollutants. ACS Omega, 2022, 7, 26056-26075.	1.6	4
15	A comparison of dust impacts on polycrystalline and monocrystalline solar photovoltaic performance: an outdoor experimental study. Environmental Science and Pollution Research, 2022, 29, 88788-88802.	2.7	8
16	Emissions Characteristics and Engine Performance from the Interaction Effect of EGR and Diesel-Ethanol Blends in Diesel Engine. International Journal of Renewable Energy Development, 2022, 11, 991-1001.	1.2	4
17	Influence of fuel injection pressure and RME on combustion, NO emissions and soot nanoparticles characteristics in common-rail HSDI diesel engine. International Journal of Thermofluids, 2022, 15, 100173.	4.0	17
18	A review of photovoltaic thermal systems: Achievements and applications. International Journal of Energy Research, 2021, 45, 1269-1308.	2.2	32

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19	Evaluation of Dust Elements on Photovoltaic Module Performance: an Experimental Study. Renewable Energy and Environmental Sustainability, 2021, 6, 30.	0.7	8
20	Investigation of a nanofluidâ€based photovoltaic thermal system using<scp>singleâ€wall</scp>carbon nanotubes: An experimental study. International Journal of Energy Research, 2021, 45, 10285-10303.	2.2	17
21	Comparison and evaluation of solar photovoltaic thermal system with hybrid collector: An experimental study. Thermal Science and Engineering Progress, 2021, 22, 100845.	1.3	13
22	Carbon nanotubes/paraffin wax nanocomposite for improving the performance of a solar air heating system. Thermal Science and Engineering Progress, 2021, 23, 100877.	1.3	32
23	Engine performance and PM concentrations from the combustion of Iraqi sunflower oil biodiesel under variable diesel engine operating conditions. Journal of Physics: Conference Series, 2021, 1973, 012051.	0.3	5
24	Numerical and experimental evaluation of nanofluids based photovoltaic/thermal systems in Oman: Using silicone-carbide nanoparticles with water-ethylene glycol mixture. Case Studies in Thermal Engineering, 2021, 26, 101009.	2.8	21
25	The effect of first generation biofuel on emission characteristics under variable conditions of engine speeds and loads in diesel engine. Journal of Physics: Conference Series, 2021, 1973, 012041.	0.3	0
26	Controlling the melting and solidification points temperature of PCMs on the performance and economic return of the water-cooled photovoltaic thermal system. Solar Energy, 2021, 224, 1344-1357.	2.9	36
27	An investigation of effect of hematocrit on thermal conductivity of a bio-nanofluid (MWCNT or) Tj ETQq1 1 0.784314 rgBT /Overlock	1.3	5
28	Influence of fuel injection timing strategies on performance, combustion, emissions and particulate matter characteristics fueled with rapeseed methyl ester in modern diesel engine. Fuel, 2021, 306, 121589.	3.4	35
29	Mathematical and neural network modeling for predicting and analyzing of nanofluid-nano PCM photovoltaic thermal systems performance. Renewable Energy, 2020, 145, 963-980.	4.3	101
30	Computer simulation of CH4â€“G222â€“H2 behaviour in a non-premixed combustion chamber. Thermal Science and Engineering Progress, 2020, 17, 100389.	1.3	4
31	The Impact of Dustâ€™s Physical Properties on Photovoltaic Modules Outcomes. Innovative Renewable Energy, 2020, , 495-506.	0.2	4
32	Progress of MWCNT, Al ₂ O ₃ , and CuO with water in enhancing the photovoltaic thermal system. International Journal of Energy Research, 2020, 44, 821-832.	2.2	58
33	Impact of dust ingredient on photovoltaic performance: An experimental study. Solar Energy, 2020, 195, 651-659.	2.9	80
34	CFD Simulation of the CO Emissions of Pollutants Contained in Flames H2-C3H8/Air. IOP Conference Series: Materials Science and Engineering, 2020, 928, 022079.	0.3	1
35	Evaluation and comparison of different flow configurations PVT systems in Oman: A numerical and experimental investigation. Solar Energy, 2020, 208, 58-88.	2.9	59
36	A review of dust accumulation and cleaning methods for solar photovoltaic systems. Journal of Cleaner Production, 2020, 276, 123187.	4.6	152

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37	Evaluation of aging and performance of grid-connected photovoltaic system northern Oman: Seven yearsâ€™ experimental study. Solar Energy, 2020, 207, 1247-1258.	2.9	32
38	CFD Simulation of the Co Emissions of Pollutants Contained in Flames H₂-C₃H₈/Air. , 2020, , .		1
39	Flat solar air heater collector with phase change materials for domestic purposes in Iraqi climate. IOP Conference Series: Materials Science and Engineering, 2020, 928, 022099.	0.3	3
40	The influence of dust physical specifications photovoltaic modules performance. IOP Conference Series: Materials Science and Engineering, 2020, 928, 022123.	0.3	4
41	Photovoltaic panel type influence on the performance degradation due dust accumulation. IOP Conference Series: Materials Science and Engineering, 2020, 928, 022092.	0.3	5
42	Combustion analysis and performance characteristics of compression ignition engines with diesel fuel supplemented with nano-TiO2 and nano-Al2O3. Case Studies in Thermal Engineering, 2020, 20, 100651.	2.8	26
43	Evaluation of the electrical performance of a photovoltaic thermal system using nano-enhanced paraffin and nanofluids. Case Studies in Thermal Engineering, 2020, 21, 100678.	2.8	56
44	A novel model and experimental validation of dust impact on grid-connected photovoltaic system performance in Northern Oman. Solar Energy, 2020, 206, 564-578.	2.9	43
45	Improve the performance of a solar air heater by adding aluminum chip, paraffin wax, and nano-SiC. Case Studies in Thermal Engineering, 2020, 19, 100622.	2.8	47
46	Impact of using Iraqi biofuelâ€“kerosene blends on coarse and fine particulate matter emitted from compression ignition engines. AEJ - Alexandria Engineering Journal, 2020, 59, 1717-1724.	3.4	12
47	The effect of dust components and contaminants on the performance of photovoltaic for the four regions in Iraq: a practical study. Renewable Energy and Environmental Sustainability, 2020, 5, 3.	0.7	26
48	The impact of adding nano-Al2O3 and nano-ZnO to Iraqi diesel fuel in terms of compression ignition engines' performance and emitted pollutants. Thermal Science and Engineering Progress, 2020, 18, 100535.	1.3	52
49	Biofuel Addition to Kerosene-A Way to Reduce the Level of Contamination. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2020, 68, 51-57.	0.3	3
50	ENVIRONMENTAL IMPACT OF USING GENERATORS IN THE UNIVERSITY OF TECHNOLOGY IN BAGHDAD, IRAQ. Journal of Thermal Engineering, 2020, 6, 272-281.	0.8	9
51	Experimental and deep learning artificial neural network approach for evaluating grid-connected photovoltaic systems. International Journal of Energy Research, 2019, 43, 8572-8591.	2.2	43
52	Novel criteria for assessing PV/T solar energy production. Case Studies in Thermal Engineering, 2019, 16, 100547.	2.8	20
53	Effect of nanomaterial addition on the thermophysical properties of Iraqi paraffin wax. Case Studies in Thermal Engineering, 2019, 15, 100537.	2.8	34
54	Mathematical and neural network models for predicting the electrical performance of a PV/T system. International Journal of Energy Research, 2019, 43, 8100.	2.2	10

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55	Performance, regulated and unregulated exhaust emission of a stationary compression ignition engine fueled by water-ULSD emulsion. Energy, 2019, 181, 1036-1050.	4.5	46
56	The effect of dust accumulation and cleaning methods on PV panelsâ€™ outcomes based on an experimental study of six locations in Northern Oman. Solar Energy, 2019, 187, 30-38.	2.9	121
57	Artificial neural network modeling and analysis of photovoltaic/thermal system based on the experimental study. Energy Conversion and Management, 2019, 186, 368-379.	4.4	108
58	Experimental investigation of using nano-PCM/nanofluid on a photovoltaic thermal system (PVT): Technical and economic study. Thermal Science and Engineering Progress, 2019, 11, 213-230.	1.3	150
59	Analysis and forecasting of weather conditions in Oman for renewable energy applications. Case Studies in Thermal Engineering, 2019, 13, 100355.	2.8	32
60	Performance and emitted pollutants assessment of diesel engine fuelled with biokerosene. Case Studies in Thermal Engineering, 2019, 13, 100381.	2.8	26
61	Influence of the base fluid on the thermo-physical properties of PV/T nanofluids with surfactant. Case Studies in Thermal Engineering, 2019, 13, 100340.	2.8	61
62	Modeling and experimental validation of a PVT system using nanofluid coolant and nano-PCM. Solar Energy, 2019, 177, 178-191.	2.9	210
63	Evaluation and analysis of nanofluid and surfactant impact on photovoltaic-thermal systems. Case Studies in Thermal Engineering, 2019, 13, 100392.	2.8	81
64	Photovoltaic/Thermal (PV/T) Systems. , 2019, , .		35
65	PV/T Feasibility and Cost Assessment. , 2019, , 153-171.		0
66	The Impact of Climatic Conditions on PV/PVT Outcomes. , 2019, , 173-222.		0
67	Advanced PV/T Systems. , 2019, , 125-151.		0
68	Applications and PV/T Systems. , 2019, , 223-263.		0
69	Environmental Conditions and Its Effect on PV Performance. , 2018, , 83-129.		2
70	Combustion and emission characteristics of E85 and diesel blend in conventional diesel engine operating in PPCI mode. Thermal Science and Engineering Progress, 2018, 7, 45-53.	1.3	35
71	Comparison of prediction methods of PV/T nanofluid and nano-PCM system using a measured dataset and artificial neural network. Solar Energy, 2018, 162, 378-396.	2.9	150
72	Generating Electricity Using Photovoltaic Solar Plants in Iraq. , 2018, , .		47

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73	Comparison study of indoor/outdoor experiments of a photovoltaic thermal PV/T system containing SiC nanofluid as a coolant. Energy, 2018, 151, 33-44.	4.5	101
74	Single slope solar distillator productivity improvement using phase change material and Al2O3 nanoparticle. Solar Energy, 2018, 164, 370-381.	2.9	88
75	Traffic and outdoor air pollution levels near highways in Baghdad, Iraq. Environment, Development and Sustainability, 2018, 20, 589-603.	2.7	62
76	Techno-economical assessment of grid connected PV/T using nanoparticles and water as base-fluid systems in Malaysia. International Journal of Sustainable Energy, 2018, 37, 558-575.	1.3	63
77	Performance and emission characteristics of CIE using hydrogen, biodiesel, and massive EGR. International Journal of Hydrogen Energy, 2018, 43, 5415-5435.	3.8	70
78	Solar Photovoltaic Technology Principles. , 2018, , 47-82.		2
79	Nanofluid based grid connected PV/T systems in Malaysia: A techno-economical assessment. Sustainable Energy Technologies and Assessments, 2018, 28, 81-95.	1.7	59
80	Numerical study on the effect of operating nanofluids of photovoltaic thermal system (PV/T) on the convective heat transfer. Case Studies in Thermal Engineering, 2018, 12, 405-413.	2.8	61
81	Experimental Study on Solar Air Heating. Al-Khawarizmi Engineering Journal, 2018, 14, 1-9.	0.3	9
82	Photovoltaic Experiences in Iraq Neighborhood Countries. , 2018, , 131-183.		2
83	Design, measurement and evaluation of photovoltaic pumping system for rural areas in Oman. Environment, Development and Sustainability, 2017, 19, 1041-1053.	2.7	34
84	Photovoltaic/Thermal (PV/T) systems: Status and future prospects. Renewable and Sustainable Energy Reviews, 2017, 77, 109-130.	8.2	323
85	Techno-economic feasibility analysis of 1 MW photovoltaic grid connected system in Oman. Case Studies in Thermal Engineering, 2017, 10, 131-141.	2.8	92
86	Climate change: The game changer in the Gulf Cooperation Council Region. Renewable and Sustainable Energy Reviews, 2017, 76, 555-576.	8.2	104
87	An experimental investigation of SiC nanofluid as a base-fluid for a photovoltaic thermal PV/T system. Energy Conversion and Management, 2017, 142, 547-558.	4.4	240
88	Evaluation of the nanofluid and nano-PCM based photovoltaic thermal (PVT) system: An experimental study. Energy Conversion and Management, 2017, 151, 693-708.	4.4	311
89	Novel technique for enhancement of diesel fuel: Impact of aqueous alumina nano-fluid on engine's performance and emissions. Case Studies in Thermal Engineering, 2017, 10, 611-620.	2.8	67
90	Comparative study to use nano-(Al 2 O 3 , CuO, and SiC) with water to enhance photovoltaic thermal PV/T collectors. Energy Conversion and Management, 2017, 148, 963-973.	4.4	149

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91	Optimum design and evaluation of hybrid solar/wind/diesel power system for Masirah Island. Environment, Development and Sustainability, 2017, 19, 1761-1778.	2.7	77
92	Evaluation of the Economic and Environmental Aspects of Using Photovoltaic Water Pumping System. Lecture Notes in Electrical Engineering, 2017, , 715-723.	0.3	12
93	The impact of oil price fluctuations on common renewable energies in GCC countries. Renewable and Sustainable Energy Reviews, 2017, 75, 989-1007.	8.2	136
94	Effect of Shadows on the Performance of Solar Photovoltaic. , 2017, , 379-385.		26
95	Photovoltaic Thermal PV/T systems: A review. International Journal of Computation and Applied Sciences, 2017, 2, 62-67.	0.3	12
96	Experimental analysis of the effect of dustâ€™s physical properties on photovoltaic modules in Northern Oman. Solar Energy, 2016, 139, 68-80.	2.9	136
97	Design and assessment of solar concentrator distillating system using phase change materials (PCM) suitable for desertic weathers. Desalination and Water Treatment, 2016, 57, 14897-14907.	1.0	61
98	The Impact of Using Solar Colored Filters to Cover the PV Panel in Its Outcomes. Scholars Bulletin, 2016, 2, 464-469.	0.2	15
99	Water solar distiller productivity enhancement using concentrating solar water heater and phase change material (PCM). Case Studies in Thermal Engineering, 2015, 5, 151-159.	2.8	73
100	Improvement of NOx-PM Trade-off in CIE Though Blends of Ethanol or Methanol and EGR. Iarjset, 2015, 2, 121-128.	0.0	4
101	Dust effect on photovoltaic utilization in Iraq: Review article. Renewable and Sustainable Energy Reviews, 2014, 37, 734-749.	8.2	107
102	Status and future prospects of renewable energy in Iraq. Renewable and Sustainable Energy Reviews, 2012, 16, 6007-6012.	8.2	75
103	Experimental evaluation of dust composition impact on photovoltaic performance in Iraq. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-22.	1.2	28
104	Modeling and experimental validation of dust impact on solar cell performance. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-17.	1.2	9