

# Hussain H Al-Kayiem

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11574199/publications.pdf>

Version: 2024-02-01

69  
papers

1,862  
citations

236925

25  
h-index

276875

41  
g-index

69  
all docs

69  
docs citations

69  
times ranked

1633  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of copper nanoparticles in Paraffin wax compositions for solar thermal energy storage. <i>Solar Energy</i> , 2016, 132, 267-278.	6.1	212
2	Performance evaluation of a solar water heater integrated with a PCM nanocomposite TES at various inclinations. <i>Solar Energy</i> , 2014, 109, 82-92.	6.1	135
3	Power management optimization of hybrid solar photovoltaic-battery integrated with pumped-hydro-storage system for standalone electricity generation. <i>Energy Conversion and Management</i> , 2020, 215, 112942.	9.2	89
4	Historic and recent progress in solar chimney power plant enhancing technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 1269-1292.	16.4	75
5	Review of municipal solid waste management options in Malaysia, with an emphasis on sustainable waste-to-energy options. <i>Journal of Material Cycles and Waste Management</i> , 2014, 16, 693-710.	3.0	64
6	Experimental investigation and evaluation of hybrid solar/thermal dryer combined with supplementary recovery dryer. <i>Solar Energy</i> , 2016, 134, 284-293.	6.1	64
7	Potential of Renewable Energy Resources with an Emphasis on Solar Power in Iraq: An Outlook. <i>Resources</i> , 2019, 8, 42.	3.5	62
8	Mathematical analysis of the influence of the chimney height and collector area on the performance of a roof top solar chimney. <i>Energy and Buildings</i> , 2014, 68, 305-311.	6.7	60
9	Performance enhancement of free convective solar air heater by pin protrusions on the absorber. <i>Solar Energy</i> , 2017, 151, 173-185.	6.1	57
10	Assessment of standalone solar PV-Battery system for electricity generation and utilization of excess power for water pumping. <i>Solar Energy</i> , 2019, 194, 766-776.	6.1	50
11	Nanoadditives induced enhancement of the thermal properties of paraffin-based nanocomposites for thermal energy storage. <i>Solar Energy</i> , 2016, 135, 644-653.	6.1	49
12	Experimental and numerical analysis of the influence of inlet configuration on the performance of a roof top solar chimney. <i>Energy and Buildings</i> , 2018, 159, 89-98.	6.7	49
13	Influence of alkali-surfactant-polymer flooding on the coalescence and sedimentation of oil/water emulsion in gravity separation. <i>Journal of Petroleum Science and Engineering</i> , 2019, 173, 640-649.	4.2	45
14	Performance evaluation of hybrid solar chimney for uninterrupted power generation. <i>Energy</i> , 2019, 166, 490-505.	8.8	44
15	Red-mud geopolymer composite encapsulated phase change material for thermal comfort in built-sector. <i>Solar Energy</i> , 2019, 181, 464-474.	6.1	42
16	Statistical assessment of experimental observation on the slug body length and slug translational velocity in a horizontal pipe. <i>International Journal of Heat and Mass Transfer</i> , 2017, 105, 252-260.	4.8	40
17	Comparative critique on the design parameters and their effect on the performance of S-rotors. <i>Renewable Energy</i> , 2016, 99, 1306-1317.	8.9	38
18	One-way coupled fluid-structure interaction of gas-liquid slug flow in a horizontal pipe: Experiments and simulations. <i>Journal of Fluids and Structures</i> , 2020, 97, 103083.	3.4	37

#	ARTICLE	IF	CITATIONS
19	On the natural convection heat transfer in a rectangular passage solar air heater. <i>Solar Energy</i> , 2015, 112, 310-318.	6.1	36
20	Review on the Enhancement Techniques and Introduction of an Alternate Enhancement Technique of Solar Chimney Power Plant. <i>Journal of Applied Sciences</i> , 2011, 11, 1877-1884.	0.3	34
21	Experimental Investigation on the Performance Enhancement of Integrated PCM-Flat Plate Solar Collector. <i>Journal of Applied Sciences</i> , 2012, 12, 2390-2396.	0.3	33
22	Measurement of global and direct normal solar energy radiation in Seri Iskandar and comparison with other cities of Malaysia. <i>Case Studies in Thermal Engineering</i> , 2020, 18, 100591.	5.7	31
23	Experimental characterization and comparison of performance parameters of S-rotors for standalone wind power system. <i>Energy</i> , 2017, 138, 752-763.	8.8	30
24	Performance investigation on a thermal energy storage integrated solar collector system using nanofluid. <i>International Journal of Energy Research</i> , 2017, 41, 650-657.	4.5	30
25	Measurements of translational slug velocity and slug length using an image processing technique. <i>Flow Measurement and Instrumentation</i> , 2016, 50, 112-120.	2.0	28
26	A comparative analysis on the uniformity enhancement methods of solar thermal drying. <i>Energy</i> , 2018, 148, 1103-1115.	8.8	25
27	Evaluation of Alkali/Surfactant/Polymer Flooding on Separation and Stabilization of Water/Oil Emulsion by Statistical Modeling. <i>Energy &amp; Fuels</i> , 2017, 31, 9290-9301.	5.1	24
28	Investigations on the slug two-phase flow in horizontal pipes: Past, presents, and future directives. <i>Chemical Engineering Science</i> , 2021, 238, 116611.	3.8	22
29	Flow uniformity assessment in a multi-chamber cabinet of a hybrid solar dryer. <i>Solar Energy</i> , 2021, 224, 823-832.	6.1	20
30	A comparative study of dispersed and grafted nanofluids of graphene nanoplatelets with natural polymer in high salinity brine for enhanced oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 2022, 210, 110004.	4.2	20
31	Dynamic analysis of laminated composite thermo-magneto-electro-elastic shells. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 4877-4891.	1.5	19
32	Solar-biomass hybrid dryer enhanced by the Co-Gen technique. <i>Drying Technology</i> , 2016, 34, 287-295.	3.1	19
33	Natural polymer non-covalently grafted graphene nanoplatelets for improved oil recovery process: A micromodel evaluation. <i>Journal of Molecular Liquids</i> , 2020, 310, 113076.	4.9	19
34	Solar vortex engine: Experimental modelling and evaluation. <i>Renewable Energy</i> , 2018, 121, 389-399.	8.9	18
35	Energetic and Exergetic Performance of a Solar Flat-Plate Collector Working With Cu Nanofluid. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2018, 140, .	1.8	18
36	Upper limits for the work extraction by nanofluid-filled selective flat-plate solar collectors. <i>Energy</i> , 2018, 160, 875-885.	8.8	18

#	ARTICLE	IF	CITATIONS
37	Effect of slug flow frequency on the mechanical stress behavior of pipelines. International Journal of Pressure Vessels and Piping, 2019, 172, 1-9.	2.6	18
38	Thermal behavior of encapsulated phase change material energy storage. Journal of Renewable and Sustainable Energy, 2012, 4, 013112.	2.0	17
39	An integrated program of a stand-alone parabolic trough solar thermal power plant: Code description and test. Case Studies in Thermal Engineering, 2018, 12, 26-37.	5.7	15
40	Performance enhancement of solar vortex power generator by Al <sub>2</sub> O <sub>3</sub> -in-black paint coating. Journal of Cleaner Production, 2021, 316, 128303.	9.3	13
41	De-Emulsification and Gravity Separation of Micro-Emulsion Produced with Enhanced Oil Recovery Chemicals Flooding. Energies, 2021, 14, 2249.	3.1	12
42	Energy management strategy of hybrid solar-hydro system with various probabilities of power supply loss. Solar Energy, 2022, 233, 230-245.	6.1	11
43	Overview of Hazardous Waste Management Status in Malaysia. , 0, , .		10
44	A Technique for Localized Rapid Soot Oxidation Using Metal Aided Microwave Radiation. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 37-43.	4.6	10
45	Review and comparative analysis of vortex generation systems for sustainable electric power production. IET Renewable Power Generation, 2017, 11, 1613-1624.	3.1	10
46	Experimental investigation and mathematical modeling of oil/water emulsion separation effectiveness containing alkali-surfactant-polymer. Journal of Dispersion Science and Technology, 2021, 42, 1286-1298.	2.4	10
47	Optical Performance Analysis of Single Flow Through and Concentric Tube Receiver Coupled with a Modified CPC Collector Under Different Configurations. Energies, 2019, 12, 4147.	3.1	9
48	State of the Art of Techno-Economics of Nanofluid-Laden Flat-Plate Solar Collectors for Sustainable Accomplishment. Sustainability, 2020, 12, 9119.	3.2	9
49	Soot Reduction Strategy: A Review. Journal of Applied Sciences, 2012, 12, 2338-2345.	0.3	9
50	Investigation of thermal behaviour, pressure drop, and pumping power in a Cu nanofluid-filled solar flat-plate collector. MATEC Web of Conferences, 2017, 131, 01003.	0.2	8
51	Prediction of the phase distribution of diesel/CNG bubbly flow in a horizontal pipe under the influence of a magnetic field. Journal of Mechanical Science and Technology, 2017, 31, 5299-5309.	1.5	7
52	Dynamic Responses of Magneto-Thermo-Electro-Elastic Shell Structures with Closed-Circuit Surface Condition. Journal of Applied Sciences, 2012, 12, 2541-2547.	0.3	6
53	Concentrated solar tower hybrid evacuated tube“ photovoltaic/thermal receiver with a non-imaging optic reflector: A case study. Journal of Cleaner Production, 2021, 298, 126683.	9.3	5
54	Analytical Analysis of Roof Top Solar Chimney for Power Generation. Journal of Applied Sciences, 2011, 11, 1741-1748.	0.3	5

#	ARTICLE	IF	CITATIONS
55	Mathematical Modeling of the Flow of Diesel-CNG Fuel Mixture in a Pipe under the Influence of a Magnetic Field. Journal of Applied Fluid Mechanics, 2017, 10, 389-396.	0.2	4
56	Design and modeling of solar parabolic trough power plant with MATLAB. MATEC Web of Conferences, 2017, 131, 02008.	0.2	3
57	Development of multi chamber technique to improve the uniformity in drying application. AIP Conference Proceedings, 2018, , .	0.4	3
58	Experimental dataset on the dispersion stability of natural polymer non-covalently functionalized graphene nanoplatelets in high salinity brines. Data in Brief, 2020, 31, 105702.	1.0	3
59	Numerical Simulation of the Transient Development of Slug Flow in Horizontal Pipes. Applied Mechanics and Materials, 0, 819, 300-304.	0.2	2
60	Experimental data for the slug two-phase flow characteristics in horizontal pipeline. Data in Brief, 2018, 16, 527-530.	1.0	2
61	Computational analysis of the inflow air slot size influence on solar vortex generator performance. MATEC Web of Conferences, 2018, 225, 04013.	0.2	2
62	Modeling of the Waxing-dewaxing Process in Scraped Surface Exchangers. Journal of Applied Sciences, 2011, 11, 1594-1599.	0.3	2
63	Magneto-hydrodynamics of bubbly flow in horizontal pipe: New criteria through numerical simulation. AIP Conference Proceedings, 2018, , .	0.4	1
64	Electric Field Prediction using Micro-plasma Inside a Microwave Cavity for Soot Oxidation. MATEC Web of Conferences, 2014, 13, 04012.	0.2	0
65	Performance Comparison of Different Models of Direct Steam Solar Plants Based on Parabolic Trough Technology by Simulink MATLAB. MATEC Web of Conferences, 2018, 225, 02007.	0.2	0
66	Suitability of base liquid in a nanofluid-laden solar flat-plate collector with emphasize on bioglycol. MATEC Web of Conferences, 2018, 225, 04014.	0.2	0
67	Integration of Compound Parabolic Concentrator with Solar Power Tower Receiver. Green Energy and Technology, 2021, , 73-92.	0.6	0
68	Estimation Model for the Wax Crystal Size Distribution in Solvent Dewaxing Process. Journal of Applied Sciences, 2012, 12, 2548-2554.	0.3	0
69	A Framework for the Optimal Sizing of Hybrid Solar PV-Battery-Hydro System for a Rural House in Malaysia. Lecture Notes in Mechanical Engineering, 2020, , 733-740.	0.4	0