Anil Kumar

List of Publications by Year
in descending order

218 papers	7,024 citations	57758 44 h-index	82547 72 g-index
227 all docs	227 docs citations	227 times ranked	4216 citing authors

#	Article	IF	Citations
1	A review on biomass energy resources, potential, conversion and policy in India. Renewable and Sustainable Energy Reviews, 2015, 45, 530-539.	16.4	372
2	Natural dyes for dye sensitized solar cell: A review. Renewable and Sustainable Energy Reviews, 2017, 69, 705-718.	16.4	307
3	Solar stills system design: A review. Renewable and Sustainable Energy Reviews, 2015, 51, 153-181.	16.4	156
4	Development of correlations for Nusselt number and friction factor for solar air heater with roughened duct having multi v-shaped with gap rib as artificial roughness. Renewable Energy, 2013, 58, 151-163.	8.9	155
5	Experimental investigation on heat transfer and fluid flow characteristics of air flow in a rectangular duct with Multi v-shaped rib with gap roughness on the heated plate. Solar Energy, 2012, 86, 1733-1749.	6.1	152
6	Exergo-environmental analysis of an indirect forced convection solar dryer for drying bitter gourd slices. Renewable Energy, 2020, 146, 2210-2223.	8.9	152
7	Experimental and analytical studies of earthâ€“air heat exchanger (EAHE) systems in India: A review. Renewable and Sustainable Energy Reviews, 2013, 19, 238-246.	16.4	151
8	Historical and recent development of photovoltaic thermal (PVT) technologies. Renewable and Sustainable Energy Reviews, 2015, 42, 1428-1436.	16.4	151
9	Mathematical modeling and performance analysis of thin layer drying of bitter gourd in sensible storage based indirect solar dryer. Innovative Food Science and Emerging Technologies, 2016, 36, 59-67.	5.6	144
10	Thermal energy storage based solar drying systems: A review. Innovative Food Science and Emerging Technologies, 2016, 34, 86-99.	5.6	142
11	Solar greenhouse drying: A review. Renewable and Sustainable Energy Reviews, 2014, 29, 905-910.	16.4	138
12	Historical Review and Recent Trends in Solar Drying Systems. International Journal of Green Energy, 2013, 10, 690-738.	3.8	131
13	Recent developments in greenhouse solar drying: A review. Renewable and Sustainable Energy Reviews, 2018, 82, 3250-3262.	16.4	96
14	Effect of mass on convective mass transfer coefficient during open sun and greenhouse drying of onion flakes. Journal of Food Engineering, 2007, 79, 1337-1350.	5.2	91
15	Thermal modeling of a natural convection greenhouse drying system for jaggery: An experimental validation. Solar Energy, 2006, 80, 1135-1144.	6.1	84
16	Efficiency improvement of solar photovoltaic/solar air collectors by using impingement jets: A review. Renewable and Sustainable Energy Reviews, 2018, 93, 331-353.	16.4	82
17	Performance of modified greenhouse dryer with thermal energy storage. Energy Reports, 2016, 2, 155-162.	5.1	81
18	Heat and fluid flow characteristics of roughened solar air heater ducts â€“ A review. Renewable Energy, 2012, 47, 77-94.	8.9	79

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19	A review of thermohydraulic performance of artificially roughened solar air heaters. Renewable and Sustainable Energy Reviews, 2014, 37, 100-122.	16.4	78
20	Thermo-environomical and drying kinetics of bitter gourd flakes drying under north wall insulated greenhouse dryer. Solar Energy, 2018, 162, 205-216.	6.1	78
21	Review on solar Stirling engine: Development and performance. Thermal Science and Engineering Progress, 2018, 8, 244-256.	2.7	78
22	Wind energy status in India: A short review. Renewable and Sustainable Energy Reviews, 2012, 16, 1157-1164.	16.4	76
23	Environomical Analysis and Mathematical Modelling for Tomato Flakes Drying in a Modified Greenhouse Dryer under Active Mode. International Journal of Food Engineering, 2014, 10, 669-681.	1.5	75
24	Applications of software in solar drying systems: A review. Renewable and Sustainable Energy Reviews, 2015, 51, 1326-1337.	16.4	74
25	Review on various modelling techniques for the solar dryers. Renewable and Sustainable Energy Reviews, 2016, 62, 396-417.	16.4	74
26	Calculation of total solar fraction for different orientation of greenhouse using 3D-shadow analysis in Auto-CAD. Energy and Buildings, 2012, 47, 27-34.	6.7	71
27	Heat transfer enhancement of heat exchanger tube with multiple square perforated twisted tape inserts: Experimental investigation and correlation development. Chemical Engineering and Processing: Process Intensification, 2017, 116, 76-96.	3.6	70
28	Effect of roughness width ratios in discrete multi V-rib with staggered rib roughness on overall thermal performance of solar air channel. Solar Energy, 2015, 119, 399-414.	6.1	67
29	Mathematical modeling and performance investigation of mixed-mode and indirect solar dryers for natural rubber sheet drying. Energy for Sustainable Development, 2016, 34, 44-53.	4.5	62
30	Energy metrics of earthâ€“air heat exchanger system for hot and dry climatic conditions of India. Energy and Buildings, 2015, 86, 214-221.	6.7	61
31	Performance analysis of greenhouse dryer by using insulated north-wall under natural convection mode. Energy Reports, 2016, 2, 107-116.	5.1	61
32	Heat transfer and fluid flow characteristics in air duct with various V-pattern rib roughness on the heated plate: A comparative study. Energy, 2016, 103, 75-85.	8.8	61
33	A review on progress of concentrated solar power in India. Renewable and Sustainable Energy Reviews, 2017, 79, 304-307.	16.4	60
34	Computational fluid dynamic analysis of innovative design of solar-biomass hybrid dryer: An experimental validation. Renewable Energy, 2016, 92, 185-191.	8.9	56
35	Developing heat transfer and friction loss in an impingement jets solar air heater with multiple arc protrusion obstacles. Solar Energy, 2017, 158, 117-131.	6.1	56
36	A review on exergy analysis of solar parabolic collectors. Solar Energy, 2020, 197, 411-432.	6.1	56

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37	Convective heat transfer enhancement in solar air channels. Applied Thermal Engineering, 2015, 89, 239-261.	6.0	53
38	Review on biodiesel production by two-step catalytic conversion. Biocatalysis and Agricultural Biotechnology, 2019, 18, 101023.	3.1	51
39	Analysis of Heat Transfer and Fluid Flow in Different Shaped Roughness Elements on the Absorber Plate Solar Air Heater Duct. Energy Procedia, 2014, 57, 2102-2111.	1.8	50
40	ANFIS modelling of a natural convection greenhouse drying system for jaggery: an experimental validation. International Journal of Sustainable Energy, 2014, 33, 316-335.	2.4	50
41	Heat transfer enhancement in solar air channel with broken multiple V-type baffle. Case Studies in Thermal Engineering, 2016, 8, 187-197.	5.7	50
42	Heat transfer augmentation in solar thermal collectors using impinging air jets: A comprehensive review. Renewable and Sustainable Energy Reviews, 2018, 82, 3179-3190.	16.4	50
43	Thermal modeling and drying kinetics of gooseberry drying inside north wall insulated greenhouse dryer. Applied Thermal Engineering, 2018, 130, 587-597.	6.0	49
44	Heat transfer analysis of PV integrated modified greenhouse dryer. Renewable Energy, 2018, 121, 53-65.	8.9	48
45	Empirical correlations development for heat transfer and friction factor of a solar rectangular air passage with spherical-shaped turbulence promoters. Journal of Thermal Analysis and Calorimetry, 2020, 139, 1195-1212.	3.6	48
46	Experimental study and correlation development for Nusselt number and friction factor for discretized broken V-pattern baffle solar air channel. Experimental Thermal and Fluid Science, 2017, 81, 56-75.	2.7	47
47	Thermo-hydraulic and exergy analysis of inclined impinging jets on absorber plate of solar air heater. Renewable Energy, 2021, 179, 84-95.	8.9	47
48	Heat transfer analysis of north wall insulated greenhouse dryer under natural convection mode. Energy, 2017, 118, 1264-1274.	8.8	46
49	Correlation development for Nusselt number and friction factor of a multiple type V-pattern dimpled obstacles solar air passage. Renewable Energy, 2017, 109, 461-479.	8.9	45
50	A review on thermal models for greenhouse dryers. Renewable and Sustainable Energy Reviews, 2017, 75, 548-558.	16.4	45
51	Embodied energy analysis of the indirect solar drying unit. International Journal of Ambient Energy, 2017, 38, 280-285.	2.5	44
52	Solar air-heating system with packed-bed energy-storage systems. Renewable and Sustainable Energy Reviews, 2017, 72, 215-227.	16.4	44
53	Effect of shape and size on convective mass transfer coefficient during greenhouse drying (GHD) of Jaggery. Journal of Food Engineering, 2006, 73, 121-134.	5.2	43
54	Optimizing discrete V obstacle parameters using a novel Entropy-VIKOR approach in a solar air flow channel. Renewable Energy, 2017, 106, 310-320.	8.9	43

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55	Medium temperature application of concentrated solar thermal technology: Indian perspective. Renewable and Sustainable Energy Reviews, 2017, 76, 369-378.	16.4	43
56	Experimental study of enhancement of heat transfer and pressure drop in a solar air channel with discretized broken V-pattern baffle. Renewable Energy, 2017, 101, 856-872.	8.9	41
57	Experimental Investigation on Modified Solar Still Using Nanoparticles and Water Sprinkler Attachment. Frontiers in Materials, 2017, 4, .	2.4	41
58	Semantic segmentation of PolSAR image data using advanced deep learning model. Scientific Reports, 2021, 11, 15365.	3.3	40
59	Thermodynamic analysis of Organic Rankine cycle driven by reversed absorber hybrid photovoltaic thermal compound parabolic concentrator system. Renewable Energy, 2020, 147, 2118-2127.	8.9	39
60	Thermal modeling and drying kinetics of bitter gourd flakes drying in modified greenhouse dryer. Renewable Energy, 2018, 118, 799-813.	8.9	39
61	A comprehensive review of Scheffler solar collector. Renewable and Sustainable Energy Reviews, 2017, 77, 890-898.	16.4	38
62	Optimization of single arc protrusion ribs parameters in solar air heater with impinging air jets based upon PSI approach. Thermal Science and Engineering Progress, 2018, 7, 146-154.	2.7	38
63	An overview of conventional and non-conventional hydrogen production methods. Materials Today: Proceedings, 2021, 46, 5353-5359.	1.8	38
64	Effect of roughness width ratio in discrete Multi v-shaped rib roughness on thermo-hydraulic performance of solar air heater. Heat and Mass Transfer, 2015, 51, 209-220.	2.1	37
65	Effect of square wings in multiple square perforated twisted tapes on fluid flow and heat transfer of heat exchanger tube. Case Studies in Thermal Engineering, 2017, 10, 28-43.	5.7	36
66	Thermal Hydraulic Performance in a Solar Air Heater Channel with Multi V-Type Perforated Baffles. Energies, 2016, 9, 564.	3.1	35
67	Fabrication and characterization of mixed dye: Natural and synthetic organic dye. Optical Materials, 2018, 79, 296-301.	3.6	34
68	Bamboo as a complementary crop to address climate change and livelihoods â€“ Insights from India. Forest Policy and Economics, 2019, 102, 66-74.	3.4	34
69	Investigation of thermal and hydrodynamic performance of impingement jets solar air passage with protrusion with combination arc obstacle on the heated plate. Experimental Heat Transfer, 2018, 31, 232-250.	3.2	33
70	Annual Performance of a Modified Greenhouse Dryer Under Passive Mode In No-Load Conditions. International Journal of Green Energy, 2015, 12, 1091-1099.	3.8	32
71	Experimental and thermal performance investigations on sensible storage based solar air heater. Journal of Energy Storage, 2020, 31, 101620.	8.1	32
72	Study on Calculation Models of Earth-Air Heat Exchanger Systems. Journal of Energy, 2014, 2014, 1-15.	3.2	30

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73	Application of artificial neural network for the prediction of jaggery mass during drying inside the natural convection greenhouse dryer. International Journal of Ambient Energy, 2014, 35, 186-192.	2.5	30
74	Thermohydraulic performance of rectangular ducts with different multiple V-rib roughness shapes: A comprehensive review and comparative study. Renewable and Sustainable Energy Reviews, 2016, 54, 635-652.	16.4	30
75	Investigation of physicochemical properties of oil palm biomass for evaluating potential of biofuels production via pyrolysis processes. Biomass Conversion and Biorefinery, 2021, 11, 1987-2001.	4.6	30
76	Cycle test stability and corrosion evaluation of phase change materials used in thermal energy storage systems. Journal of Energy Storage, 2021, 39, 102664.	8.1	30
77	Performance evaluation of greenhouse dryer with opaque north wall. Heat and Mass Transfer, 2014, 50, 493-500.	2.1	28
78	Single-phase thermal and hydraulic performance analysis of a V-pattern dimpled obstacles air passage. Experimental Heat Transfer, 2017, 30, 393-426.	3.2	28
79	Experimental study of heat transfer enhancement in a rectangular duct distributed by multi V-perforated baffle of different relative baffle width. Heat and Mass Transfer, 2017, 53, 1289-1304.	2.1	28
80	A Novel Chemical Method for Determining Ester Content in Biodiesel. Energy Procedia, 2017, 138, 536-543.	1.8	28
81	Convective heat transfer enhancement techniques of heat exchanger tubes: a review. International Journal of Ambient Energy, 2018, 39, 649-670.	2.5	27
82	Comparative study of effect of various blockage arrangements on thermal hydraulic performance in a roughened air passage. Renewable and Sustainable Energy Reviews, 2018, 81, 447-463.	16.4	27
83	Effect of ventilated solar-geothermal drying on 3E (exergy, energy, and economic analysis), and quality attributes of tomato paste. Energy, 2022, 243, 122764.	8.8	27
84	Numerical optimization of solar air heaters having different types of roughness shapes on the heated plate â€“ Technical note. Energy, 2014, 72, 731-738.	8.8	26
85	Experimental investigation of effect of flow attack angle on thermohydraulic performance of air flow in a rectangular channel with discrete V-pattern baffle on the heated plate. Advances in Mechanical Engineering, 2016, 8, 168781401664105.	1.6	26
86	Development of new correlations for heat transfer and pressure loss due to internal conical ring obstacles in an impinging jet solar air heater passage. Thermal Science and Engineering Progress, 2020, 17, 100493.	2.7	26
87	Properties of functionally gradient composites reinforced with waste natural fillers. Acta Periodica Technologica, 2019, , 250-259.	0.2	26
88	Developing heat transfer and pressure loss in an air passage with multi discrete V-blockages. Experimental Thermal and Fluid Science, 2017, 84, 266-278.	2.7	25
89	A novel two-step transesterification process catalyzed by homogeneous base catalyst in the first step and heterogeneous acid catalyst in the second step. Fuel Processing Technology, 2017, 168, 97-104.	7.2	25
90	An experimental study of heat transfer enhancement in an air channel with broken multi type V-baffles. Heat and Mass Transfer, 2017, 53, 3593-3612.	2.1	25

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91	Experimental investigation on overall thermal performance of fluid-flow in a rectangular channel with discrete V-pattern baffle. Thermal Science, 2018, 22, 183-191.	1.1	25
92	Numerical analysis of thermal hydraulic performance of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0077.gif" overflow="scroll"><mml:mrow><mml:msub subscriptshift="65%"><mml:mrow><mml:mi mathvariant="italic">Al</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub subscriptshift="65%"><mml:mrow><mml:mi>O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0. Case Studies in Thermal Engineering, 2	5.7	24
93	Design and feasibility analysis of hydrogen based hybrid energy system: A case study. International Journal of Hydrogen Energy, 2021, 46, 34574-34586.	7.1	24
94	Experimental determination of enhancement of heat transfer in a multiple square perforated twisted tape inserts heat exchanger tube. Experimental Heat Transfer, 2018, 31, 85-105.	3.2	23
95	CFD Analysis on the Thermal Hydraulic Performance of an SAH Duct with Multi V-Shape Roughened Ribs. Energies, 2016, 9, 415.	3.1	22
96	Development of new correlations for heat transfer and friction loss of solid ring with combined square wing twisted tape inserts heat exchanger tube. Experimental Heat Transfer, 2019, 32, 179-200.	3.2	22
97	Review on fabrication methodologies and its impacts on performance of dye-sensitized solar cells. Environmental Science and Pollution Research, 2022, 29, 15233-15251.	5.3	22
98	Experimental investigation on the comparison of fenugreek drying in an indirect solar dryer and under open sun. Heat and Mass Transfer, 2016, 52, 1963-1972.	2.1	21
99	Drying Kinetics, Quality Assessment, and Economic Analysis of Bitter Gourd Flakes Drying Inside Forced Convection Greenhouse Dryer. Journal of Solar Energy Engineering, Transactions of the ASME, 2018, 140, .	1.8	21
100	Correlations development for Nusselt number and friction factor in a dimpled surface heat exchanger tube. Experimental Heat Transfer, 2020, 33, 101-122.	3.2	21
101	Enviro-economical feasibility of groundnut drying under greenhouse and indoor forced convection hot air dryers. Journal of Stored Products Research, 2021, 93, 101848.	2.6	21
102	Numerical and experimental investigation of enhancement of heat transfer in dimpled rib heat exchanger tube. Heat and Mass Transfer, 2017, 53, 3501-3516.	2.1	20
103	Effect of multiple arc protrusion ribs on heat transfer and fluid flow of a circular-jet impingement solar air passage. Chemical Engineering and Processing: Process Intensification, 2017, 120, 114-133.	3.6	20
104	Turbulent heat transfer and nanofluid flow in a protruded ribbed square passage. Results in Physics, 2017, 7, 3603-3618.	4.1	20
105	Experimental investigation of heat transfer and fluid flow behaviour in multiple square perforated twisted tape with square wing inserts heat exchanger tube. Heat and Mass Transfer, 2018, 54, 1813-1826.	2.1	20
106	Thin layer drying characteristics of curry leaves (Murraya koenigii) in an indirect solar dryer. Thermal Science, 2017, 21, 359-367.	1.1	20
107	Solar air heater duct roughened with wavy delta winglets: correlations development and parametric optimization. Heat and Mass Transfer, 2019, 55, 3473-3491.	2.1	19
108	DESIGN, DEVELOPMENT, AND TESTING OF A MODIFIED GREENHOUSE DRYER UNDER CONDITIONS OF NATURAL CONVECTION. Heat Transfer Research, 2014, 45, 433-451.	1.6	19

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109	Thermal performance evaluation of modified active greenhouse dryer. Journal of Building Physics, 2014, 37, 395-402.	2.4	18
110	Augmented artificially roughened solar air heaters. Materials Today: Proceedings, 2022, 63, 226-239.	1.8	18
111	Economic analysis and drying kinetics of a geothermalâ€assisted solar dryer for tomato paste drying. Journal of the Science of Food and Agriculture, 2021, 101, 6542-6551.	3.5	17
112	Garlic dehydration inside heat exchanger-evacuated tube assisted drying system: Thermal performance, drying kinetic and color index. Journal of Stored Products Research, 2021, 93, 101852.	2.6	17
113	Effect of circular inside conical ring obstacles on heat transfer and friction characteristics of round jets impingement solar air rectangular passage. International Journal of Green Energy, 2019, 16, 1091-1104.	3.8	16
114	Thermal analysis of jet impingement on hemispherical protrusion on heated surface. Experimental Heat Transfer, 2021, 34, 662-677.	3.2	16
115	Parboiled Paddy Drying with Different Dryers: Thermodynamic and Quality Properties, Mathematical Modeling Using ANNs Assessment. Foods, 2020, 9, 86.	4.3	16
116	A comprehensive review on the heat transfer and nanofluid flow characteristics in different shaped channels. International Journal of Ambient Energy, 2021, 42, 345-361.	2.5	16
117	PREDICTION OF THE RATE OF MOISTURE EVAPORATION FROM JAGGERY IN GREENHOUSE DRYING USING THE FUZZY LOGIC. Heat Transfer Research, 2015, 46, 923-935.	1.6	15
118	Conjugate heat and mass transfer modeling of a new rubber smoking room and experimental validation. Applied Thermal Engineering, 2017, 112, 761-770.	6.0	15
119	Experimental analysis and thermal performance of evacuated tube solar collector assisted solar dryer. Materials Today: Proceedings, 2021, 47, 5846-5851.	1.8	15
120	A comprehensive overview on solar grapes drying: Modeling, energy, environmental and economic analysis. Sustainable Energy Technologies and Assessments, 2021, 47, 101513.	2.7	15
121	Drying kinetics and economic analysis of bitter gourd flakes drying inside hybrid greenhouse dryer. Environmental Science and Pollution Research, 2023, 30, 72026-72040.	5.3	15
122	A review of techniques for increasing the productivity of passive solar stills. Sustainable Energy Technologies and Assessments, 2022, 52, 102033.	2.7	15
123	Comparison of groundnut drying in simple and modified natural convection greenhouse dryers: Thermal, environmental and kinetic analyses. Journal of Stored Products Research, 2022, 98, 101990.	2.6	15
124	Heating potential evaluation of earthâ€“air heat exchanger system for winter season. Journal of Building Physics, 2015, 39, 242-260.	2.4	14
125	Performance and economic analysis of natural convection based rubber smoking room for rubber cooperatives in Thailand. Renewable Energy, 2019, 132, 233-242.	8.9	14
126	Recent advancements of PCM based indirect type solar drying systems: A state of art. Materials Today: Proceedings, 2021, 47, 5852-5855.	1.8	14

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127	Emissions from homogeneous charge compression ignition (HCCI) engine using different fuels: a review. Environmental Science and Pollution Research, 2022, 29, 50960-50969.	5.3	14
128	The significance of context for curriculum development in engineering education: a case study across three African countries. European Journal of Engineering Education, 2016, 41, 279-292.	2.3	12
129	Localization of Nuclei in Breast Cancer Using Whole Slide Imaging System Supported by Morphological Features and Shape Formulas . Cancer Management and Research, 2020, Volume 12, 4573-4583.	1.9	12
130	Advancements in steam distillation system for oil extraction from peppermint leaves. Materials Today: Proceedings, 2021, 47, 5794-5799.	1.8	12
131	Experimental and numerical analysis of heat transfer and fluid flow characteristics inside pulsating heat pipe. Chemical Engineering Communications, 2023, 210, 549-565.	2.6	12
132	Concentrated solar power plants: A critical review of regional dynamics and operational parameters. Energy Research and Social Science, 2022, 83, 102331.	6.4	12
133	Experimental investigations on latent heat storage based modified mixedâ€mode greenhouse groundnuts drying. Journal of Food Processing and Preservation, 2022, 46, .	2.0	12
134	Assessment of sensible heat storage and fuel utilization efficiency enhancement in rubber sheet drying. Journal of Energy Storage, 2017, 10, 67-74.	8.1	11
135	Development and Performance Study of Solar Air Heater for Solar Drying Applications. Green Energy and Technology, 2017, , 579-601.	0.6	11
136	Promising biomass materials for biofuels in Indiaâ€™s context. Materials Letters, 2018, 220, 175-177.	2.6	11
137	Effect of helical perforated twisted tape parameters on thermal and hydrodynamic performance in heat exchanger circular tube. Heat and Mass Transfer, 2020, 56, 507-519.	2.1	11
138	TiO₂/H₂O nanofluid flow and heat transfer analysis in V-pattern with combined protrusion obstacle square channel: experimental analysis and CFD validation. International Journal of Ambient Energy, 2021, 42, 652-671.	2.5	11
139	Financial viability assessment of concentrated solar power technologies under Indian climatic conditions. Sustainable Energy Technologies and Assessments, 2021, 43, 100928.	2.7	11
140	Performance characteristic of HCCI engine for different fuels. Materials Today: Proceedings, 2021, 47, 6030-6034.	1.8	11
141	Numerical study on overall thermal performance in SAH duct with compound roughness of V-shaped ribs and dimples. Journal of the Korean Solar Energy Society, 2015, 35, 43-55.	0.4	11
142	Exergy and energy analysis of sensible heat storage based double pass hybrid solar air heater. Sustainable Energy Technologies and Assessments, 2022, 49, 101714.	2.7	11
143	Thermal characteristics of sensible heat storage materials applicable for concentrated solar power systems. Materials Today: Proceedings, 2021, 47, 5812-5817.	1.8	10
144	Thermohydraulic analysis of twisted tape inserts with SiO_2/H_2 O nanofluid in heat exchanger. Australian Journal of Mechanical Engineering, 2023, 21, 1184-1197.	2.1	10

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145	Effect of a unique winglet twisted tape insert on thermal and hydraulic properties of tubular heat exchanger. Experimental Heat Transfer, 2022, 35, 1077-1098.	3.2	10
146	Performance evaluation of mixed synthetic organic dye as sensitizer based dye sensitized solar cell. Optical Materials, 2021, 111, 110658.	3.6	9
147	Fundamental Concepts of Drying. Green Energy and Technology, 2017, , 3-38.	0.6	9
148	NUMERICAL OPTIMIZATION OF THE THERMAL PERFORMANCE OF A SOLAR AIR CHANNEL HAVING DISCRETE MULTI V-RIB ROUGHNESS ON THE ABSORBER PLATE. Heat Transfer Research, 2016, 47, 449-469.	1.6	9
149	Numerical simulation of effective efficiency of a discrete multi V-pattern rib solar air channel. Heat and Mass Transfer, 2016, 52, 2051-2065.	2.1	8
150	A review on technology and promotional initiatives for concentrated solar power in world. International Journal of Ambient Energy, 2018, 39, 297-316.	2.5	8
151	Effect of Aging on the Spectral Radiative Properties of Plastic Film-Covered Greenhouse under Arid Conditions. International Journal of Thermophysics, 2018, 39, 1.	2.1	8
152	Effect of straight slot rib height on heat transfer enhancement of nanofluid flow through rectangular channel. Materials Today: Proceedings, 2022, 50, 1159-1163.	1.8	8
153	Mathematical Simulation on Thermal Performance of Packed Bed Solar Energy Storage System. Transactions of the Korean Hydrogen and New Energy Society, 2015, 26, 331-338.	0.6	8
154	Heat transfer and friction factor of solar air heater having duct roughened artificially with discrete multiple v-ribs. Journal of Renewable and Sustainable Energy, 2012, 4, 033103.	2.0	7
155	Techno-economic assessment of forced-convection rubber smoking room for rubber cooperatives. Energy, 2017, 137, 152-159.	8.8	7
156	Evaluation of Biodiesel Production Process by the Determining of the Total Glycerol Content in Biodiesel. Energy Procedia, 2017, 138, 544-551.	1.8	7
157	Thermal analysis of insulated north-wall greenhouse with solar collector under passive mode. International Journal of Sustainable Energy, 2018, 37, 325-339.	2.4	7
158	Effect of square wing with combined solid ring twisted tape inserts on heat transfer and fluid flow of a circular tube heat exchanger. International Journal of Green Energy, 2018, 15, 663-680.	3.8	7
159	Development and characterization of ternary mixture series of mediumâ€•and longâ€chain saturated fatty acids for energy applications. Energy Storage, 2020, 2, e112.	4.3	7
160	Critical assessment on application of software for designing hybrid energy systems. Materials Today: Proceedings, 2022, 49, 425-432.	1.8	7
161	Exergetic efficiency analysis of impingement jets integrated with internal conical ring roughened solar heat collector. Experimental Heat Transfer, 2023, 36, 75-95.	3.2	7
162	Process optimization of conventional steam distillation system for peppermint oil extraction. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2022, 44, 3960-3980.	2.3	7

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163	A Comprehensive Overview of Renewable Energy Status in India. , 2015, , 91-105.		6
164	Advancement in Biogas Digester. Green Energy and Technology, 2015, , 351-382.	0.6	6
165	Thermal analysis of domestic type single Slopeâ€“Basin solar still under two different water depths. Materials Today: Proceedings, 2021, 46, 5482-5489.	1.8	6
166	Design and evaluation of stand-alone solar-hydrogen energy storage system for academic institute: A case study. Materials Today: Proceedings, 2021, 47, 5918-5922.	1.8	6
167	Solar Photovoltaic Technology and Its Sustainability. Green Energy and Technology, 2015, , 3-25.	0.6	5
168	A Review on Enhancement of Biogas Yield by Pre-treatment and addition of Additives. MATEC Web of Conferences, 2016, 62, 06002.	0.2	5
169	KINETICS OF FENUGREEK DRYING IN AN INDIRECT SOLAR DRYER. Heat Transfer Research, 2017, 48, 787-797.	1.6	5
170	AN EXPERIMENTAL INVESTIGATION OF ENHANCED HEAT TRANSFER DUE TO A GAP IN A CONTINUOUS MULTIPLE V-RIB ARRANGEMENT IN A SOLAR AIR CHANNEL. Journal of Enhanced Heat Transfer, 2014, 21, 21-49.	1.1	5
171	Parametric optimization of impinging air jet on hemispherical protrusion of a solar thermal collector. Experimental Heat Transfer, 2023, 36, 786-807.	3.2	5
172	Development of Phase Change Materials (PCMs) for Solar Drying Systems. Green Energy and Technology, 2017, , 619-633.	0.6	4
173	Experimental and CFD Analysis of Solar Air Heater with Rectangular Shaped Hollow Bodies. , 2018, , .		4
174	Desalination and Solar Still: Boon to Earth. Green Energy and Technology, 2019, , 1-24.	0.6	4
175	Sensitivity analysis and multi-objective optimization of organic Rankine cycle integrated with vapor compression refrigeration system. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-13.	2.3	4
176	Exergy Analysis of Solar Dryers. Green Energy and Technology, 2017, , 239-262.	0.6	4
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