

# Anil Kumar

## List of Publications by Citations

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214  
papers

4,429  
citations

36  
h-index

58  
g-index

227  
ext. papers

5,665  
ext. citations

4.2  
avg, IF

6.61  
L-index

#	Paper	IF	Citations
214	A review on biomass energy resources, potential, conversion and policy in India. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 45, 530-539	16.2	268
213	Natural dyes for dye sensitized solar cell: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 69, 705-718	16.2	208
212	Historical and recent development of photovoltaic thermal (PVT) technologies. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 42, 1428-1436	16.2	116
211	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. <i>Solar Energy</i> , <b>2012</b> , 86, 1733-1749	6.8	114
210	Solar stills system design: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 51, 153-181	16.2	111
209	Experimental and analytical studies of earth-air heat exchanger (EAHE) systems in India: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 19, 238-246	16.2	111
208	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. <i>Renewable Energy</i> , <b>2013</b> , 58, 151-163	8.1	109
207	Thermal energy storage based solar drying systems: A review. <i>Innovative Food Science and Emerging Technologies</i> , <b>2016</b> , 34, 86-99	6.8	101
206	Solar greenhouse drying: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 29, 905-910	16.2	99
205	Historical Review and Recent Trends in Solar Drying Systems. <i>International Journal of Green Energy</i> , <b>2013</b> , 10, 690-738	3	91
204	Mathematical modeling and performance analysis of thin layer drying of bitter gourd in sensible storage based indirect solar dryer. <i>Innovative Food Science and Emerging Technologies</i> , <b>2016</b> , 36, 59-67	6.8	86
203	Exergo-environmental analysis of an indirect forced convection solar dryer for drying bitter gourd slices. <i>Renewable Energy</i> , <b>2020</b> , 146, 2210-2223	8.1	79
202	Effect of mass on convective mass transfer coefficient during open sun and greenhouse drying of onion flakes. <i>Journal of Food Engineering</i> , <b>2007</b> , 79, 1337-1350	6	72
201	Heat and fluid flow characteristics of roughened solar air heater ducts [A review]. <i>Renewable Energy</i> , <b>2012</b> , 47, 77-94	8.1	67
200	Thermal modeling of a natural convection greenhouse drying system for jaggery: An experimental validation. <i>Solar Energy</i> , <b>2006</b> , 80, 1135-1144	6.8	66
199	Wind energy status in India: A short review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 1157-1164	16.2	64
198	A review of thermohydraulic performance of artificially roughened solar air heaters. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 37, 100-122	16.2	62

197	Recent developments in greenhouse solar drying: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 3250-3262	16.2	57
196	Applications of software in solar drying systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 51, 1326-1337	16.2	56
195	Heat transfer enhancement of heat exchanger tube with multiple square perforated twisted tape inserts: Experimental investigation and correlation development. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2017</b> , 116, 76-96	3.7	53
194	Calculation of total solar fraction for different orientation of greenhouse using 3D-shadow analysis in Auto-CAD. <i>Energy and Buildings</i> , <b>2012</b> , 47, 27-34	7	52
193	Environomical Analysis and Mathematical Modelling for Tomato Flakes Drying in a Modified Greenhouse Dryer under Active Mode. <i>International Journal of Food Engineering</i> , <b>2014</b> , 10, 669-681	1.9	51
192	Efficiency improvement of solar photovoltaic/solar air collectors by using impingement jets: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 93, 331-353	16.2	51
191	Review on various modelling techniques for the solar dryers. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 62, 396-417	16.2	48
190	Effect of roughness width ratios in discrete multi V-rib with staggered rib roughness on overall thermal performance of solar air channel. <i>Solar Energy</i> , <b>2015</b> , 119, 399-414	6.8	47
189	Energy metrics of earth-air heat exchanger system for hot and dry climatic conditions of India. <i>Energy and Buildings</i> , <b>2015</b> , 86, 214-221	7	47
188	Performance of modified greenhouse dryer with thermal energy storage. <i>Energy Reports</i> , <b>2016</b> , 2, 155-162	4.2	44
187	Performance analysis of greenhouse dryer by using insulated north-wall under natural convection mode. <i>Energy Reports</i> , <b>2016</b> , 2, 107-116	4.6	44
186	Heat transfer and fluid flow characteristics in air duct with various V-pattern rib roughness on the heated plate: A comparative study. <i>Energy</i> , <b>2016</b> , 103, 75-85	7.9	44
185	Convective heat transfer enhancement in solar air channels. <i>Applied Thermal Engineering</i> , <b>2015</b> , 89, 239-248	3.8	41
184	Mathematical modeling and performance investigation of mixed-mode and indirect solar dryers for natural rubber sheet drying. <i>Energy for Sustainable Development</i> , <b>2016</b> , 34, 44-53	5.4	40
183	Empirical correlations development for heat transfer and friction factor of a solar rectangular air passage with spherical-shaped turbulence promoters. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 139, 1195-1212	4.1	40
182	Review on solar Stirling engine: Development and performance. <i>Thermal Science and Engineering Progress</i> , <b>2018</b> , 8, 244-256	3.6	40
181	A review on progress of concentrated solar power in India. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 79, 304-307	16.2	39
180	Computational fluid dynamic analysis of innovative design of solar-biomass hybrid dryer: An experimental validation. <i>Renewable Energy</i> , <b>2016</b> , 92, 185-191	8.1	37

179	ANFIS modelling of a natural convection greenhouse drying system for jaggery: an experimental validation. <i>International Journal of Sustainable Energy</i> , <b>2014</b> , 33, 316-335	2.7	37
178	A review on exergy analysis of solar parabolic collectors. <i>Solar Energy</i> , <b>2020</b> , 197, 411-432	6.8	36
177	Review on biodiesel production by two-step catalytic conversion. <i>Biocatalysis and Agricultural Biotechnology</i> , <b>2019</b> , 18, 101023	4.2	35
176	Solar air-heating system with packed-bed energy-storage systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 72, 215-227	16.2	34
175	Thermo-environmental and drying kinetics of bitter melon flakes drying under north wall insulated greenhouse dryer. <i>Solar Energy</i> , <b>2018</b> , 162, 205-216	6.8	33
174	Heat transfer enhancement in solar air channel with broken multiple V-type baffle. <i>Case Studies in Thermal Engineering</i> , <b>2016</b> , 8, 187-197	5.6	33
173	Experimental study and correlation development for Nusselt number and friction factor for discretized broken V-pattern baffle solar air channel. <i>Experimental Thermal and Fluid Science</i> , <b>2017</b> , 81, 56-75	3	33
172	Analysis of Heat Transfer and Fluid Flow in Different Shaped Roughness Elements on the Absorber Plate Solar Air Heater Duct. <i>Energy Procedia</i> , <b>2014</b> , 57, 2102-2111	2.3	32
171	Thermal modeling and drying kinetics of gooseberry drying inside north wall insulated greenhouse dryer. <i>Applied Thermal Engineering</i> , <b>2018</b> , 130, 587-597	5.8	32
170	Medium temperature application of concentrated solar thermal technology: Indian perspective. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 76, 369-378	16.2	31
169	Developing heat transfer and friction loss in an impingement jets solar air heater with multiple arc protrusion obstacles. <i>Solar Energy</i> , <b>2017</b> , 158, 117-131	6.8	31
168	Heat transfer augmentation in solar thermal collectors using impinging air jets: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 3179-3190	16.2	30
167	A review on thermal models for greenhouse dryers. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 75, 548-558	16.2	30
166	Effect of shape and size on convective mass transfer coefficient during greenhouse drying (GHD) of Jaggery. <i>Journal of Food Engineering</i> , <b>2006</b> , 73, 121-134	6	29
165	Thermal modeling and drying kinetics of bitter melon flakes drying in modified greenhouse dryer. <i>Renewable Energy</i> , <b>2018</b> , 118, 799-813	8.1	29
164	Heat transfer analysis of north wall insulated greenhouse dryer under natural convection mode. <i>Energy</i> , <b>2017</b> , 118, 1264-1274	7.9	28
163	Embodied energy analysis of the indirect solar drying unit. <i>International Journal of Ambient Energy</i> , <b>2017</b> , 38, 280-285	2	27
162	Correlation development for Nusselt number and friction factor of a multiple type V-pattern dimpled obstacles solar air passage. <i>Renewable Energy</i> , <b>2017</b> , 109, 461-479	8.1	27

161	Heat transfer analysis of PV integrated modified greenhouse dryer. <i>Renewable Energy</i> , <b>2018</b> , 121, 53-65	8.1	27
160	Experimental Investigation on Modified Solar Still Using Nanoparticles and Water Sprinkler Attachment. <i>Frontiers in Materials</i> , <b>2017</b> , 4,	4	27
159	Effect of square wings in multiple square perforated twisted tapes on fluid flow and heat transfer of heat exchanger tube. <i>Case Studies in Thermal Engineering</i> , <b>2017</b> , 10, 28-43	5.6	25
158	Effect of roughness width ratio in discrete Multi v-shaped rib roughness on thermo-hydraulic performance of solar air heater. <i>Heat and Mass Transfer</i> , <b>2015</b> , 51, 209-220	2.2	25
157	Thermal Hydraulic Performance in a Solar Air Heater Channel with Multi V-Type Perforated Baffles. <i>Energies</i> , <b>2016</b> , 9, 564	3.1	25
156	Thermodynamic analysis of Organic Rankine cycle driven by reversed absorber hybrid photovoltaic thermal compound parabolic concentrator system. <i>Renewable Energy</i> , <b>2020</b> , 147, 2118-2127	8.1	25
155	Annual Performance of a Modified Greenhouse Dryer Under Passive Mode In No-Load Conditions. <i>International Journal of Green Energy</i> , <b>2015</b> , 12, 1091-1099	3	24
154	Fabrication and characterization of mixed dye: Natural and synthetic organic dye. <i>Optical Materials</i> , <b>2018</b> , 79, 296-301	3.3	23
153	Thermohydraulic performance of rectangular ducts with different multiple V-rib roughness shapes: A comprehensive review and comparative study. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 54, 635-652	16.2	23
152	Numerical optimization of solar air heaters having different types of roughness shapes on the heated plate Technical note. <i>Energy</i> , <b>2014</b> , 72, 731-738	7.9	23
151	Optimizing discrete V obstacle parameters using a novel Entropy-VIKOR approach in a solar air flow channel. <i>Renewable Energy</i> , <b>2017</b> , 106, 310-320	8.1	22
150	A comprehensive review of Scheffler solar collector. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 77, 890-898	16.2	22
149	Study on Calculation Models of Earth-Air Heat Exchanger Systems. <i>Journal of Energy</i> , <b>2014</b> , 2014, 1-15	1	22
148	Single-phase thermal and hydraulic performance analysis of a V-pattern dimpled obstacles air passage. <i>Experimental Heat Transfer</i> , <b>2017</b> , 30, 393-426	2.4	21
147	Experimental study of enhancement of heat transfer and pressure drop in a solar air channel with discretized broken V-pattern baffle. <i>Renewable Energy</i> , <b>2017</b> , 101, 856-872	8.1	21
146	A Novel Chemical Method for Determining Ester Content in Biodiesel. <i>Energy Procedia</i> , <b>2017</b> , 138, 536-543	3	21
145	Investigation of thermal and hydrodynamic performance of impingement jets solar air passage with protrusion with combination arc obstacle on the heated plate. <i>Experimental Heat Transfer</i> , <b>2018</b> , 31, 232-240	2.4	21
144	Experimental determination of enhancement of heat transfer in a multiple square perforated twisted tape inserts heat exchanger tube. <i>Experimental Heat Transfer</i> , <b>2018</b> , 31, 85-105	2.4	21

143	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. <i>Advances in Mechanical Engineering</i> , <b>2016</b> , 8, 168781401664105	1.2	20
142	CFD Analysis on the Thermal Hydraulic Performance of an SAH Duct with Multi V-Shape Roughened Ribs. <i>Energies</i> , <b>2016</b> , 9, 415	3.1	19
141	Performance evaluation of greenhouse dryer with opaque north wall. <i>Heat and Mass Transfer</i> , <b>2014</b> , 50, 493-500	2.2	18
140	A novel two-step transesterification process catalyzed by homogeneous base catalyst in the first step and heterogeneous acid catalyst in the second step. <i>Fuel Processing Technology</i> , <b>2017</b> , 168, 97-104	7.2	18
139	Developing heat transfer and pressure loss in an air passage with multi discrete V-blockages. <i>Experimental Thermal and Fluid Science</i> , <b>2017</b> , 84, 266-278	3	17
138	Convective heat transfer enhancement techniques of heat exchanger tubes: a review. <i>International Journal of Ambient Energy</i> , <b>2018</b> , 39, 649-670	2	17
137	Experimental investigation on the comparison of fenugreek drying in an indirect solar dryer and under open sun. <i>Heat and Mass Transfer</i> , <b>2016</b> , 52, 1963-1972	2.2	17
136	Application of artificial neural network for the prediction of jaggery mass during drying inside the natural convection greenhouse dryer. <i>International Journal of Ambient Energy</i> , <b>2014</b> , 35, 186-192	2	17
135	Experimental and thermal performance investigations on sensible storage based solar air heater. <i>Journal of Energy Storage</i> , <b>2020</b> , 31, 101620	7.8	17
134	Numerical analysis of thermal hydraulic performance of Al <sub>2</sub> O <sub>3</sub> /H <sub>2</sub> O nanofluid flowing through a protrusion obstacles square mini channel. <i>Case Studies in Thermal Engineering</i> , <b>2017</b> , 9, 108-121	5.6	16
133	Turbulent heat transfer and nanofluid flow in a protruded ribbed square passage. <i>Results in Physics</i> , <b>2017</b> , 7, 3603-3618	3.7	16
132	Experimental study of heat transfer enhancement in a rectangular duct distributed by multi V-perforated baffle of different relative baffle width. <i>Heat and Mass Transfer</i> , <b>2017</b> , 53, 1289-1304	2.2	16
131	Properties of functionally gradient composites reinforced with waste natural fillers. <i>Acta Periodica Technologica</i> , <b>2019</b> , 250-259	0.8	16
130	Investigation of physicochemical properties of oil palm biomass for evaluating potential of biofuels production via pyrolysis processes. <i>Biomass Conversion and Biorefinery</i> , <b>2020</b> , 11, 1987	2.3	16
129	Bamboo as a complementary crop to address climate change and livelihoods [Insights from India. <i>Forest Policy and Economics</i> , <b>2019</b> , 102, 66-74	3.6	15
128	An experimental study of heat transfer enhancement in an air channel with broken multi type V-baffles. <i>Heat and Mass Transfer</i> , <b>2017</b> , 53, 3593-3612	2.2	15
127	Experimental investigation on overall thermal performance of fluid-flow in a rectangular channel with discrete V-pattern baffle. <i>Thermal Science</i> , <b>2018</b> , 22, 183-191	1.2	15
126	Development of new correlations for heat transfer and friction loss of solid ring with combined square wing twisted tape inserts heat exchanger tube. <i>Experimental Heat Transfer</i> , <b>2019</b> , 32, 179-200	2.4	15

125	Correlations development for Nusselt number and friction factor in a dimpled surface heat exchanger tube. <i>Experimental Heat Transfer</i> , <b>2020</b> , 33, 101-122	2.4	15
124	Comparative study of effect of various blockage arrangements on thermal hydraulic performance in a roughened air passage. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 81, 447-463	16.2	15
123	Numerical and experimental investigation of enhancement of heat transfer in dimpled rib heat exchanger tube. <i>Heat and Mass Transfer</i> , <b>2017</b> , 53, 3501-3516	2.2	13
122	Drying Kinetics, Quality Assessment, and Economic Analysis of Bitter Gourd Flakes Drying Inside Forced Convection Greenhouse Dryer. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , <b>2018</b> , 140,	2.3	13
121	Effect of multiple arc protrusion ribs on heat transfer and fluid flow of a circular-jet impingement solar air passage. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2017</b> , 120, 114-133	3.7	13
120	Thermal performance evaluation of modified active greenhouse dryer. <i>Journal of Building Physics</i> , <b>2014</b> , 37, 395-402	2.6	13
119	Thin layer drying characteristics of curry leaves ( <i>Murraya koenigii</i> ) in an indirect solar dryer. <i>Thermal Science</i> , <b>2017</b> , 21, 359-367	1.2	13
118	Conjugate heat and mass transfer modeling of a new rubber smoking room and experimental validation. <i>Applied Thermal Engineering</i> , <b>2017</b> , 112, 761-770	5.8	12
117	PREDICTION OF THE RATE OF MOISTURE EVAPORATION FROM JAGGERY IN GREENHOUSE DRYING USING THE FUZZY LOGIC. <i>Heat Transfer Research</i> , <b>2015</b> , 46, 923-935	3.9	12
116	DESIGN, DEVELOPMENT, AND TESTING OF A MODIFIED GREENHOUSE DRYER UNDER CONDITIONS OF NATURAL CONVECTION. <i>Heat Transfer Research</i> , <b>2014</b> , 45, 433-451	3.9	12
115	Effect of circular inside conical ring obstacles on heat transfer and friction characteristics of round jets impingement solar air rectangular passage. <i>International Journal of Green Energy</i> , <b>2019</b> , 16, 1091-1104	3.4	11
114	Thermo-hydraulic and exergy analysis of inclined impinging jets on absorber plate of solar air heater. <i>Renewable Energy</i> , <b>2021</b> , 179, 84-95	8.1	11
113	Experimental investigation of heat transfer and fluid flow behaviour in multiple square perforated twisted tape with square wing inserts heat exchanger tube. <i>Heat and Mass Transfer</i> , <b>2018</b> , 54, 1813-1826	2.2	10
112	Parboiled Paddy Drying with Different Dryers: Thermodynamic and Quality Properties, Mathematical Modeling Using ANNs Assessment. <i>Foods</i> , <b>2020</b> , 9,	4.9	9
111	NUMERICAL OPTIMIZATION OF THE THERMAL PERFORMANCE OF A SOLAR AIR CHANNEL HAVING DISCRETE MULTI V-RIB ROUGHNESS ON THE ABSORBER PLATE. <i>Heat Transfer Research</i> , <b>2016</b> , 47, 449-469	3.9	9
110	A comprehensive review on the heat transfer and nanofluid flow characteristics in different shaped channels. <i>International Journal of Ambient Energy</i> , <b>2021</b> , 42, 345-361	2	9
109	An overview of conventional and non-conventional hydrogen production methods. <i>Materials Today: Proceedings</i> , <b>2021</b> , 46, 5353-5359	1.4	9
108	Optimization of single arc protrusion ribs parameters in solar air heater with impinging air jets based upon PSI approach. <i>Thermal Science and Engineering Progress</i> , <b>2018</b> , 7, 146-154	3.6	9



107	Development of new correlations for heat transfer and pressure loss due to internal conical ring obstacles in an impinging jet solar air heater passage. <i>Thermal Science and Engineering Progress</i> , <b>2020</b> , 17, 100493	3.6	8
106	Promising biomass materials for biofuels in India's context. <i>Materials Letters</i> , <b>2018</b> , 220, 175-177	3.3	8
105	A review on technology and promotional initiatives for concentrated solar power in world. <i>International Journal of Ambient Energy</i> , <b>2018</b> , 39, 297-316	2	8
104	Performance and economic analysis of natural convection based rubber smoking room for rubber cooperatives in Thailand. <i>Renewable Energy</i> , <b>2019</b> , 132, 233-242	8.1	8
103	Numerical study on overall thermal performance in SAH duct with compound roughness of V-shaped ribs and dimples. <i>Journal of the Korean Solar Energy Society</i> , <b>2015</b> , 35, 43-55	0.1	8
102	Solar air heater duct roughened with wavy delta winglets: correlations development and parametric optimization. <i>Heat and Mass Transfer</i> , <b>2019</b> , 55, 3473-3491	2.2	7
101	Heating potential evaluation of earth-air heat exchanger system for winter season. <i>Journal of Building Physics</i> , <b>2015</b> , 39, 242-260	2.6	7
100	Mathematical Simulation on Thermal Performance of Packed Bed Solar Energy Storage System. <i>Transactions of the Korean Hydrogen and New Energy Society</i> , <b>2015</b> , 26, 331-338	0.5	7
99	Thermal analysis of jet impingement on hemispherical protrusion on heated surface. <i>Experimental Heat Transfer</i> , <b>2020</b> , 1-16	2.4	7
98	Semantic segmentation of PolSAR image data using advanced deep learning model. <i>Scientific Reports</i> , <b>2021</b> , 11, 15365	4.9	7
97	Effect of helical perforated twisted tape parameters on thermal and hydrodynamic performance in heat exchanger circular tube. <i>Heat and Mass Transfer</i> , <b>2020</b> , 56, 507-519	2.2	7
96	TiO <sub>2</sub> /H <sub>2</sub> O nanofluid flow and heat transfer analysis in V-pattern with combined protrusion obstacle square channel: experimental analysis and CFD validation. <i>International Journal of Ambient Energy</i> , <b>2021</b> , 42, 652-671	2	7
95	Financial viability assessment of concentrated solar power technologies under Indian climatic conditions. <i>Sustainable Energy Technologies and Assessments</i> , <b>2021</b> , 43, 100928	4.7	7
94	Assessment of sensible heat storage and fuel utilization efficiency enhancement in rubber sheet drying. <i>Journal of Energy Storage</i> , <b>2017</b> , 10, 67-74	7.8	6
93	Localization of Nuclei in Breast Cancer Using Whole Slide Imaging System Supported by Morphological Features and Shape Formulas. <i>Cancer Management and Research</i> , <b>2020</b> , 12, 4573-4583	3.6	6
92	Numerical simulation of effective efficiency of a discrete multi V-pattern rib solar air channel. <i>Heat and Mass Transfer</i> , <b>2016</b> , 52, 2051-2065	2.2	6
91	Heat transfer and friction factor of solar air heater having duct roughened artificially with discrete multiple v-ribs. <i>Journal of Renewable and Sustainable Energy</i> , <b>2012</b> , 4, 033103	2.5	6
90	Development and characterization of ternary mixture series of medium- and long-chain saturated fatty acids for energy applications. <i>Energy Storage</i> , <b>2020</b> , 2, e112	2.8	6



89	Economic analysis and drying kinetics of a geothermal-assisted solar dryer for tomato paste drying. <i>Journal of the Science of Food and Agriculture</i> , <b>2021</b> , 101, 6542-6551	4.3	6
88	Effect of square wing with combined solid ring twisted tape inserts on heat transfer and fluid flow of a circular tube heat exchanger. <i>International Journal of Green Energy</i> , <b>2018</b> , 15, 663-680	3	6
87	Thermal analysis of insulated north-wall greenhouse with solar collector under passive mode. <i>International Journal of Sustainable Energy</i> , <b>2018</b> , 37, 325-339	2.7	5
86	Development and Performance Study of Solar Air Heater for Solar Drying Applications. <i>Green Energy and Technology</i> , <b>2017</b> , 579-601	0.6	5
85	Techno-economic assessment of forced-convection rubber smoking room for rubber cooperatives. <i>Energy</i> , <b>2017</b> , 137, 152-159	7.9	5
84	Evaluation of Biodiesel Production Process by the Determining of the Total Glycerol Content in Biodiesel. <i>Energy Procedia</i> , <b>2017</b> , 138, 544-551	2.3	5
83	Fundamental Concepts of Drying. <i>Green Energy and Technology</i> , <b>2017</b> , 3-38	0.6	5
82	Cycle test stability and corrosion evaluation of phase change materials used in thermal energy storage systems. <i>Journal of Energy Storage</i> , <b>2021</b> , 39, 102664	7.8	5
81	Augmented artificially roughened solar air heaters. <i>Materials Today: Proceedings</i> , <b>2022</b> ,	1.4	5
80	Advancement in Biogas Digester. <i>Green Energy and Technology</i> , <b>2015</b> , 351-382	0.6	4
79	The significance of context for curriculum development in engineering education: a case study across three African countries. <i>European Journal of Engineering Education</i> , <b>2016</b> , 41, 279-292	1.5	4
78	Effect of Aging on the Spectral Radiative Properties of Plastic Film-Covered Greenhouse under Arid Conditions. <i>International Journal of Thermophysics</i> , <b>2018</b> , 39, 1	2.1	4
77	AN EXPERIMENTAL INVESTIGATION OF ENHANCED HEAT TRANSFER DUE TO A GAP IN A CONTINUOUS MULTIPLE V-RIB ARRANGEMENT IN A SOLAR AIR CHANNEL. <i>Journal of Enhanced Heat Transfer</i> , <b>2014</b> , 21, 21-49	1.7	4
76	Advancements in steam distillation system for oil extraction from peppermint leaves. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 5794-5794	1.4	4
75	A comprehensive overview on solar grapes drying: Modeling, energy, environmental and economic analysis. <i>Sustainable Energy Technologies and Assessments</i> , <b>2021</b> , 47, 101513	4.7	4
74	Solar Photovoltaic Technology and Its Sustainability. <i>Green Energy and Technology</i> , <b>2015</b> , 3-25	0.6	3
73	Development of Phase Change Materials (PCMs) for Solar Drying Systems. <i>Green Energy and Technology</i> , <b>2017</b> , 619-633	0.6	3
72	A Comprehensive Overview of Renewable Energy Status in India <b>2015</b> , 91-105		3

71	Review on fabrication methodologies and its impacts on performance of dye-sensitized solar cells.. <i>Environmental Science and Pollution Research</i> , <b>2022</b> , 29, 15233	5.1	3
70	KINETICS OF FENUGREEK DRYING IN AN INDIRECT SOLAR DRYER. <i>Heat Transfer Research</i> , <b>2017</b> , 48, 787-797	3.97	3
69	Exergy and energy analysis of sensible heat storage based double pass hybrid solar air heater. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 49, 101714	4.7	3
68	Drying kinetics and economic analysis of bitter gourd flakes drying inside hybrid greenhouse dryer. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	3
67	Exergy Analysis of Solar Dryers. <i>Green Energy and Technology</i> , <b>2017</b> , 239-262	0.6	3
66	Performance characteristic of HCCI engine for different fuels. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 6030-6030	1.4	3
65	Recent advancements of PCM based indirect type solar drying systems: A state of art. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	3
64	Design and evaluation of stand-alone solar-hydrogen energy storage system for academic institute: A case study. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	3
63	Thermohydraulic analysis of twisted tape inserts with SiO <sub>2</sub> /H <sub>2</sub> O nanofluid in heat exchanger. <i>Australian Journal of Mechanical Engineering</i> , 1-14	1	3
62	Garlic dehydration inside heat exchanger-evacuated tube assisted drying system: Thermal performance, drying kinetic and color index. <i>Journal of Stored Products Research</i> , <b>2021</b> , 93, 101852	2.5	3
61	Desalination and Solar Still: Boon to Earth. <i>Green Energy and Technology</i> , <b>2019</b> , 1-24	0.6	2
60	Energy Analysis of the Direct and Indirect Solar Drying System. <i>Green Energy and Technology</i> , <b>2017</b> , 529-542	5.42	2
59	Effect of ventilated solar-geothermal drying on 3E (exergy, energy, and economic analysis), and quality attributes of tomato paste. <i>Energy</i> , <b>2021</b> , 122764	7.9	2
58	Critical assessment on application of software for designing hybrid energy systems. <i>Materials Today: Proceedings</i> , <b>2021</b> , 49, 425-425	1.4	2
57	Experimental analysis and thermal performance of evacuated tube solar collector assisted solar dryer. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	2
56	Thermal characteristics of sensible heat storage materials applicable for concentrated solar power systems. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	2
55	A Review on Enhancement of Biogas Yield by Pre-treatment and addition of Additives. <i>MATEC Web of Conferences</i> , <b>2016</b> , 62, 06002	0.3	2
54	Performance evaluation of mixed synthetic organic dye as sensitizer based dye sensitized solar cell. <i>Optical Materials</i> , <b>2021</b> , 111, 110658	3.3	2

53	Experimental and numerical analysis of heat transfer and fluid flow characteristics inside pulsating heat pipe. <i>Chemical Engineering Communications</i> ,1-17	2.2	2
52	Enviro-economical feasibility of groundnut drying under greenhouse and indoor forced convection hot air dryers. <i>Journal of Stored Products Research</i> , <b>2021</b> , 93, 101848	2.5	2
51	Design and feasibility analysis of hydrogen based hybrid energy system: A case study. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 34574-34586	6.7	2
50	Effect of a unique wingleet twisted tape insert on thermal and hydraulic properties of tubular heat exchanger. <i>Experimental Heat Transfer</i> ,1-22	2.4	2
49	Exergy Analysis of Active and Passive Solar Still. <i>Green Energy and Technology</i> , <b>2019</b> , 261-273	0.6	1
48	Simulation, Modeling, and Experimental Studies of Solar Distillation Systems. <i>Green Energy and Technology</i> , <b>2019</b> , 149-166	0.6	1
47	Design and Selection Criteria of Biogas Digester. <i>Green Energy and Technology</i> , <b>2018</b> , 91-112	0.6	1
46	Economic Analysis of Various Developed Solar Dryers. <i>Green Energy and Technology</i> , <b>2017</b> , 495-513	0.6	1
45	Numerical simulation of single and double slope solar still for temperature distribution. <i>WEENTECH Proceedings in Energy</i> ,221-231	0	1
44	Exergetic efficiency analysis of impingement jets integrated with internal conical ring roughened solar heat collector. <i>Experimental Heat Transfer</i> ,1-21	2.4	1
43	Fluid flow and heat transfer enhancement in wings with combined solid ring twisted tape inserts circular heat exchanger tube. <i>Thermal Science</i> , <b>2019</b> , 23, 3893-3903	1.2	1
42	Concentrated solar power plants: A critical review of regional dynamics and operational parameters. <i>Energy Research and Social Science</i> , <b>2022</b> , 83, 102331	7.7	1
41	Advancement in Greenhouse Drying System. <i>Green Energy and Technology</i> , <b>2017</b> , 177-196	0.6	1
40	Energetic and exergetic study of dual slope solar distiller coupled with evacuated tube collector under force mode. <i>Materials Today: Proceedings</i> , <b>2021</b> , 47, 5800-5800	1.4	1
39	Thermal analysis of domestic type single SlopeBasin solar still under two different water depths. <i>Materials Today: Proceedings</i> , <b>2021</b> , 46, 5482-5489	1.4	1
38	Review on Spray-Assisted Solar Desalination: Concept, Performance and Modeling. <i>Arabian Journal for Science and Engineering</i> , <b>2021</b> , 46, 11521	2.5	1
37	Effect of straight slot rib height on heat transfer enhancement of nanofluid flow through rectangular channel. <i>Materials Today: Proceedings</i> , <b>2021</b> , 50, 1159-1159	1.4	1
36	Emissions from homogeneous charge compression ignition (HCCI) engine using different fuels: a review. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	1

35	Thermal Pyrolysis of Used Tyres to Produce Liquid Fuel: Process Optimization and How It Compares to Microwave Pyrolysis. <i>Journal of Energy</i> , <b>2022</b> , 2022, 1-12	1	1
34	Thermal Performance Improvement of Solar Parabolic Dish System Using Modified Spiral Coil Tubular Receiver. <i>International Journal of Photoenergy</i> , <b>2021</b> , 2021, 1-18	2.1	1
33	Analysis and Implementation of Thermal Heat Exchanger Tube Performance with Helically Pierced Twisted Tape Inserts Using ANFIS Model. <i>Mathematical Problems in Engineering</i> , <b>2021</b> , 2021, 1-13	1.1	1
32	Parametric optimization of impinging air jet on hemispherical protrusion of a solar thermal collector. <i>Experimental Heat Transfer</i> , 1-22	2.4	1
31	Effect of Design Parameters on Productivity of Various Passive Solar Stills. <i>Green Energy and Technology</i> , <b>2019</b> , 49-73	0.6	0
30	A review of techniques for increasing the productivity of passive solar stills. <i>Sustainable Energy Technologies and Assessments</i> , <b>2022</b> , 52, 102033	4.7	0
29	Sensitivity analysis and multi-objective optimization of organic Rankine cycle integrated with vapor compression refrigeration system. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-13	1.6	0
28	A Short Review on Oil Palm Biomass as Feedstock for Pyrolysis Process. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 531-539	0.4	0
27	Thermal performance and energy consumption analysis of retail buildings through daylighting: A numerical model with experimental validation. <i>Materials Science for Energy Technologies</i> , <b>2021</b> , 4, 367-382	5.2	0
26	Fuel Cell: Fundamental, Classification, Application, and Environmental Impact. <i>Green Energy and Technology</i> , <b>2018</b> , 363-385	0.6	0
25	Fundamentals and Performance Evaluation Parameters of Solar Dryer. <i>Green Energy and Technology</i> , <b>2018</b> , 37-50	0.6	0
24	Process optimization of conventional steam distillation system for peppermint oil extraction. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2022</b> , 44, 3960-3980	1.6	0
23	Application of Software in Predicting Thermal Behaviours of Solar Stills. <i>Green Energy and Technology</i> , <b>2019</b> , 105-148	0.6	
22	Integrated PVT Hybrid Active Solar Still (HASS) with an Optimized Number of Collectors. <i>Green Energy and Technology</i> , <b>2019</b> , 219-236	0.6	
21	A Preliminary Assessment of Solar Industrial Process Heating for Cement Industry. <i>Lecture Notes in Mechanical Engineering</i> , <b>2022</b> , 171-177	0.4	
20	Thermodynamic analysis of sensible heat storage based double pass hybrid solar air heater with and without reflector. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2022</b> , 47, 1	1	
19	Solar photovoltaic (PV)-driven active crop drying system for plantain (MUSA SPP): Design, development, and performance evaluation. <i>Journal of Food Process Engineering</i> , e13892	2.4	
18	Heat loss analysis of a parabolic type dish cooker. <i>International Journal of Energy Technology</i> , <b>2019</b> , 1	0.3	

17	Computational fluid dynamics (CFD) modelling of hybrid photovoltaic thermal system. <i>Vibroengineering PROCEDIA</i> , <b>2019</b> , 29, 243-248	0.4
16	Industrial prospective of bio-fuel production from Algae harvesting: A Review. <i>WEENTECH Proceedings in Energy</i> , 183-192	0
15	Solar Equipment Based Micro Grid in Hilly Terrains of Rural India - A Broad Perspective. <i>International Journal of Innovative Technology and Exploring Engineering</i> , <b>2020</b> , 10, 26-35	1.6
14	Applications of Soft Computing in Solar Drying Systems. <i>Green Energy and Technology</i> , <b>2017</b> , 419-438	0.6
13	EXPERIMENTAL INVESTIGATION ON THERMAL BEHAVIOR OF HYBRID SINGLE SLOPE SOLAR STILL. <i>Journal of Thermal Engineering</i> , 677-689	1.1
12	Combustion Characteristics of Mui and Taru Basin Coal in a Fluidized Bed Combustor. <i>Journal of Combustion</i> , <b>2021</b> , 2021, 1-8	0.8
11	Investigation on Heating Load for Polyhouse Located in Agra: A Case Study. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 43-50	0.4
10	Analyzing the Barriers of Green Construction Using Interpretive Structural Modeling. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 1119-1128	0.4
9	Solar Thermal Application for Crop Residue Management. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 303-315	0.4
8	New Approach for Evaluating Different Concrete Mixer Based on Concrete Slurry Property. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 637-650	0.4
7	Commissioning Process and Energy Analysis in the Building: A Case Study for Ranchi City. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 19-29	0.4
6	CFD Analysis of an Airfoil Due to the Influence of Active Airflow. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 625-635	0.4
5	Investigations on Ethanol as the Raw Material for Hydrogen Production, Storage, and Applications. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 317-326	0.4
4	Intelligent Moving Machine (IMM) Based on Battery for an Efficient Regenerative Braking System. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 257-264	0.4
3	Performance and Exergy Analysis of Single Slope Passive Solar Still in Clear Sky Condition. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 385-394	0.4
2	A Review on Nuclear Energy-Based Hydrogen Production Methods. <i>Lecture Notes in Mechanical Engineering</i> , <b>2021</b> , 131-141	0.4
1	Development of New Correlations and Parametric Optimization in Nanofluid Flow through Protruded Roughened Square Channel. <i>Mathematical Problems in Engineering</i> , <b>2022</b> , 2022, 1-18	1.1