

# Anil Kumar

## List of Publications by Year in descending order

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142  
papers

5,474  
citations

81434

41  
h-index

111975

67  
g-index

144  
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144  
docs citations

144  
times ranked

4153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Drying kinetics and economic analysis of bitter melon flakes drying inside hybrid greenhouse dryer. <i>Environmental Science and Pollution Research</i> , 2023, 30, 72026-72040.	2.7	15
2	Physico-Mechanical Properties and Taguchi Optimized Abrasive Wear of Alkali Treated and Fly Ash Reinforced Himalayan Agave Fiber Polyester Composite. <i>Journal of Natural Fibers</i> , 2022, 19, 9269-9282.	1.7	18
3	Concentrated solar power plants: A critical review of regional dynamics and operational parameters. <i>Energy Research and Social Science</i> , 2022, 83, 102331.	3.0	12
4	Exergy and energy analysis of sensible heat storage based double pass hybrid solar air heater. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 49, 101714.	1.7	11
5	Effect of ventilated solar-geothermal drying on 3E (exergy, energy, and economic analysis), and quality attributes of tomato paste. <i>Energy</i> , 2022, 243, 122764.	4.5	27
6	Investigation of design configurations and effective parameters on productivity enhancement of vertical diffusion solar stills. <i>International Journal of Environmental Science and Technology</i> , 2022, 19, 6889-6924.	1.8	5
7	Review on fabrication methodologies and its impacts on performance of dye-sensitized solar cells. <i>Environmental Science and Pollution Research</i> , 2022, 29, 15233-15251.	2.7	22
8	A review of techniques for increasing the productivity of passive solar stills. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102033.	1.7	15
9	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> , 2022, 47, 1.	0.8	0
10	Evaluation of Physical, Mechanical, and Wear Properties of Jatropha Shell Powder Reinforced Epoxy Glass Fiber Composites. <i>Journal of Natural Fibers</i> , 2022, 19, 12195-12207.	1.7	10
11	Energy, environmental, economic, and color analysis of geo-exchange energy assisted-insulated north wall solar dryer for onion slices under relatively cloudy and rainy conditions. <i>Solar Energy</i> , 2022, 236, 1-16.	2.9	7
12	Methods to enhance the productivity of solar still: A review. <i>Materials Today: Proceedings</i> , 2022, , .	0.9	0
13	Performance analysis of single slope solar still under composite climate in India: Numerical simulation and thermal modeling approach. <i>Materials Today: Proceedings</i> , 2022, , .	0.9	0
14	Experimental investigations on latent heat storage based modified mixed-mode greenhouse groundnuts drying. <i>Journal of Food Processing and Preservation</i> , 2022, 46, .	0.9	12
15	Process optimization of conventional steam distillation system for peppermint oil extraction. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2022, 44, 3960-3980.	1.2	7
16	Financial feasibility of concentrated solar power with and without sensible heat storage in hot and dry Indian climate. <i>Journal of Energy Storage</i> , 2022, 52, 105002.	3.9	7
17	Comparison of groundnut drying in simple and modified natural convection greenhouse dryers: Thermal, environmental and kinetic analyses. <i>Journal of Stored Products Research</i> , 2022, 98, 101990.	1.2	15
18	Investigation of physicochemical properties of oil palm biomass for evaluating potential of biofuels production via pyrolysis processes. <i>Biomass Conversion and Biorefinery</i> , 2021, 11, 1987-2001.	2.9	30

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19	Thermal analysis of jet impingement on hemispherical protrusion on heated surface. <i>Experimental Heat Transfer</i> , 2021, 34, 662-677.	2.3	16
20	Fabrication and evaluation of physical and mechanical properties of jute and coconut coir reinforced polymer matrix composite. <i>Materials Today: Proceedings</i> , 2021, 38, 2572-2577.	0.9	24
21	Financial viability assessment of concentrated solar power technologies under Indian climatic conditions. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 43, 100928.	1.7	11
22	Performance evaluation of mixed synthetic organic dye as sensitizer based dye sensitized solar cell. <i>Optical Materials</i> , 2021, 111, 110658.	1.7	9
23	Thermal performance and energy consumption analysis of retail buildings through daylighting: A numerical model with experimental validation. <i>Materials Science for Energy Technologies</i> , 2021, 4, 367-382.	1.0	2
24	Comparative Investigation of Yield and Quality of Bio-Oil and Biochar from Pyrolysis of Woody and Non-Woody Biomasses. <i>Energies</i> , 2021, 14, 1092.	1.6	27
25	Advancements in steam distillation system for oil extraction from peppermint leaves. <i>Materials Today: Proceedings</i> , 2021, 47, 5794-5799.	0.9	12
26	Physical and Mechanical Properties of Natural Leaf Fiber-Reinforced Epoxy Polyester Composites. <i>Polymers</i> , 2021, 13, 1369.	2.0	48
27	Experimental analysis and thermal performance of evacuated tube solar collector assisted solar dryer. <i>Materials Today: Proceedings</i> , 2021, 47, 5846-5851.	0.9	15
28	Thermal characteristics of sensible heat storage materials applicable for concentrated solar power systems. <i>Materials Today: Proceedings</i> , 2021, 47, 5812-5817.	0.9	10
29	Recent advancements of PCM based indirect type solar drying systems: A state of art. <i>Materials Today: Proceedings</i> , 2021, 47, 5852-5855.	0.9	14
30	CFD Modelling and Simulation of an Indirect Forced Convection Solar Dryer. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 795, 012008.	0.2	6
31	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> , 2021, 101, 6542-6551.	1.7	17
32	Cycle test stability and corrosion evaluation of phase change materials used in thermal energy storage systems. <i>Journal of Energy Storage</i> , 2021, 39, 102664.	3.9	30
33	Review on Spray-Assisted Solar Desalination: Concept, Performance and Modeling. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 11521.	1.7	3
34	Garlic dehydration inside heat exchanger-evacuated tube assisted drying system: Thermal performance, drying kinetic and color index. <i>Journal of Stored Products Research</i> , 2021, 93, 101852.	1.2	17
35	Enviro-economical feasibility of groundnut drying under greenhouse and indoor forced convection hot air dryers. <i>Journal of Stored Products Research</i> , 2021, 93, 101848.	1.2	21
36	A comprehensive overview on solar grapes drying: Modeling, energy, environmental and economic analysis. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101513.	1.7	15

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37	Thermodynamic analysis of Organic Rankine cycle driven by reversed absorber hybrid photovoltaic thermal compound parabolic concentrator system. <i>Renewable Energy</i> , 2020, 147, 2118-2127.	4.3	39
38	Exergo-environmental analysis of an indirect forced convection solar dryer for drying bitter gourd slices. <i>Renewable Energy</i> , 2020, 146, 2210-2223.	4.3	152
39	Development of indirect type solar dryer and experiments for estimation of drying parameters of apple and watermelon. <i>Thermal Science and Engineering Progress</i> , 2020, 16, 100477.	1.3	56
40	Development and characterization of ternary mixture series of medium and long chain saturated fatty acids for energy applications. <i>Energy Storage</i> , 2020, 2, e112.	2.3	7
41	Daylight availability assessment and the application of energy simulation software "A literature review. <i>Materials Science for Energy Technologies</i> , 2020, 3, 679-689.	1.0	15
42	Experimental study of single slope solar still coupled with parabolic trough collector. <i>Materials Science for Energy Technologies</i> , 2020, 3, 700-708.	1.0	19
43	Solar cell technologies. , 2020, , 27-50.		7
44	A review on exergy analysis of solar parabolic collectors. <i>Solar Energy</i> , 2020, 197, 411-432.	2.9	56
45	Parboiled Paddy Drying with Different Dryers: Thermodynamic and Quality Properties, Mathematical Modeling Using ANNs Assessment. <i>Foods</i> , 2020, 9, 86.	1.9	16
46	Experimental and thermal performance investigations on sensible storage based solar air heater. <i>Journal of Energy Storage</i> , 2020, 31, 101620.	3.9	32
47	Performance and economic analysis of natural convection based rubber smoking room for rubber cooperatives in Thailand. <i>Renewable Energy</i> , 2019, 132, 233-242.	4.3	14
48	Review on biodiesel production by two-step catalytic conversion. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 18, 101023.	1.5	51
49	Desalination and Solar Still: Boon to Earth. <i>Green Energy and Technology</i> , 2019, , 1-24.	0.4	4
50	Exergy Analysis of Active and Passive Solar Still. <i>Green Energy and Technology</i> , 2019, , 261-273.	0.4	2
51	Application of Software in Predicting Thermal Behaviours of Solar Stills. <i>Green Energy and Technology</i> , 2019, , 105-148.	0.4	0
52	Bamboo as a complementary crop to address climate change and livelihoods " Insights from India. <i>Forest Policy and Economics</i> , 2019, 102, 66-74.	1.5	34
53	Computational fluid dynamics simulation and energy analysis of domestic direct-type multi-shelf solar dryer. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 173-184.	2.0	19
54	Different Techniques for Separation of Brackish Water. <i>Asian Journal of Chemistry</i> , 2019, 31, 9-17.	0.1	1

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55	Properties of functionally gradient composites reinforced with waste natural fillers. Acta Periodica Technologica, 2019, , 250-259.	0.5	26
56	Heat loss analysis of a parabolic type dish cooker. International Journal of Energy Technology, 2019, , 1.	0.3	0
57	Promising biomass materials for biofuels in India's context. Materials Letters, 2018, 220, 175-177.	1.3	11
58	Fabrication and characterization of mixed dye: Natural and synthetic organic dye. Optical Materials, 2018, 79, 296-301.	1.7	34
59	Thermo-environmental and drying kinetics of bitter melon flakes drying under north wall insulated greenhouse dryer. Solar Energy, 2018, 162, 205-216.	2.9	78
60	Heat transfer analysis of PV integrated modified greenhouse dryer. Renewable Energy, 2018, 121, 53-65.	4.3	48
61	Thermal analysis of insulated north-wall greenhouse with solar collector under passive mode. International Journal of Sustainable Energy, 2018, 37, 325-339.	1.3	7
62	A review on technology and promotional initiatives for concentrated solar power in world. International Journal of Ambient Energy, 2018, 39, 297-316.	1.4	8
63	Heat transfer augmentation in solar thermal collectors using impinging air jets: A comprehensive review. Renewable and Sustainable Energy Reviews, 2018, 82, 3179-3190.	8.2	50
64	Recent developments in greenhouse solar drying: A review. Renewable and Sustainable Energy Reviews, 2018, 82, 3250-3262.	8.2	96
65	Thermal modeling and drying kinetics of goseberry drying inside north wall insulated greenhouse dryer. Applied Thermal Engineering, 2018, 130, 587-597.	3.0	49
66	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.	2.3	33
67	Review on solar Stirling engine: Development and performance. Thermal Science and Engineering Progress, 2018, 8, 244-256.	1.3	78
68	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.	1.3	38
69	Fundamentals and Performance Evaluation Parameters of Solar Dryer. Green Energy and Technology, 2018, , 37-50.	0.4	2
70	Drying Kinetics, Quality Assessment, and Economic Analysis of Bitter Melon Flakes Drying Inside Forced Convection Greenhouse Dryer. Journal of Solar Energy Engineering, Transactions of the ASME, 2018, 140, .	1.1	21
71	Thermal modeling and drying kinetics of bitter melon flakes drying in modified greenhouse dryer. Renewable Energy, 2018, 118, 799-813.	4.3	39
72	Experimental investigation on overall thermal performance of fluid-flow in a rectangular channel with discrete V-pattern baffle. Thermal Science, 2018, 22, 183-191.	0.5	25

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73	Embodied energy analysis of the indirect solar drying unit. International Journal of Ambient Energy, 2017, 38, 280-285.	1.4	44
74	Optimizing discrete V obstacle parameters using a novel Entropy-VIKOR approach in a solar air flow channel. Renewable Energy, 2017, 106, 310-320.	4.3	43
75	Developing heat transfer and pressure loss in an air passage with multi discrete V-blockages. Experimental Thermal and Fluid Science, 2017, 84, 266-278.	1.5	25
76	Assessment of sensible heat storage and fuel utilization efficiency enhancement in rubber sheet drying. Journal of Energy Storage, 2017, 10, 67-74.	3.9	11
77	A review on progress of concentrated solar power in India. Renewable and Sustainable Energy Reviews, 2017, 79, 304-307.	8.2	60
78	Medium temperature application of concentrated solar thermal technology: Indian perspective. Renewable and Sustainable Energy Reviews, 2017, 76, 369-378.	8.2	43
79	Development of Phase Change Materials (PCMs) for Solar Drying Systems. Green Energy and Technology, 2017, , 619-633.	0.4	4
80	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.	3.7	25
81	Economic Analysis of Various Developed Solar Dryers. Green Energy and Technology, 2017, , 495-513.	0.4	3
82	Energy Analysis of the Direct and Indirect Solar Drying System. Green Energy and Technology, 2017, , 529-542.	0.4	3
83	Development and Performance Study of Solar Air Heater for Solar Drying Applications. Green Energy and Technology, 2017, , 579-601.	0.4	11
84	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.	1.8	20
85	Techno-economic assessment of forced-convection rubber smoking room for rubber cooperatives. Energy, 2017, 137, 152-159.	4.5	7
86	Conjugate heat and mass transfer modeling of a new rubber smoking room and experimental validation. Applied Thermal Engineering, 2017, 112, 761-770.	3.0	15
87	Heat transfer analysis of north wall insulated greenhouse dryer under natural convection mode. Energy, 2017, 118, 1264-1274.	4.5	46
88	A review on thermal models for greenhouse dryers. Renewable and Sustainable Energy Reviews, 2017, 75, 548-558.	8.2	45
89	Natural dyes for dye sensitized solar cell: A review. Renewable and Sustainable Energy Reviews, 2017, 69, 705-718.	8.2	307
90	A Novel Chemical Method for Determining Ester Content in Biodiesel. Energy Procedia, 2017, 138, 536-543.	1.8	28

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91	Evaluation of Biodiesel Production Process by the Determining of the Total Glycerol Content in Biodiesel. <i>Energy Procedia</i> , 2017, 138, 544-551.	1.8	7
92	Experimental Investigation on Modified Solar Still Using Nanoparticles and Water Sprinkler Attachment. <i>Frontiers in Materials</i> , 2017, 4, .	1.2	41
93	Parametric study and shrinkage modelling of natural rubber sheet drying using COMSOL multiphysics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 243, 012012.	0.3	2
94	Fundamental Concepts of Drying. <i>Green Energy and Technology</i> , 2017, , 3-38.	0.4	9
95	Exergy Analysis of Solar Dryers. <i>Green Energy and Technology</i> , 2017, , 239-262.	0.4	4
96	Thin layer drying characteristics of curry leaves ( <i>Murraya koenigii</i> ) in an indirect solar dryer. <i>Thermal Science</i> , 2017, 21, 359-367.	0.5	20
97	Applications of Soft Computing in Solar Drying Systems. <i>Green Energy and Technology</i> , 2017, , 419-438.	0.4	2
98	Advancement in Greenhouse Drying System. <i>Green Energy and Technology</i> , 2017, , 177-196.	0.4	3
99	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> , 2016, 8, 168781401664105.	0.8	26
100	Review on various modelling techniques for the solar dryers. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 62, 396-417.	8.2	74
101	Mathematical modeling and performance investigation of mixed-mode and indirect solar dryers for natural rubber sheet drying. <i>Energy for Sustainable Development</i> , 2016, 34, 44-53.	2.0	62
102	Performance of modified greenhouse dryer with thermal energy storage. <i>Energy Reports</i> , 2016, 2, 155-162.	2.5	81
103	Chapter 4 Review on Performance Affected Parameters for Dye Sensitized Solar Cell. , 2016, , 93-112.		0
104	Review on Indian Solar Drying Status. <i>Current Sustainable/Renewable Energy Reports</i> , 2016, 3, 113-120.	1.2	23
105	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> , 2016, 36, 59-67.	2.7	144
106	Performance analysis of greenhouse dryer by using insulated north-wall under natural convection mode. <i>Energy Reports</i> , 2016, 2, 107-116.	2.5	61
107	Thermal energy storage based solar drying systems: A review. <i>Innovative Food Science and Emerging Technologies</i> , 2016, 34, 86-99.	2.7	142
108	Experimental investigation on the comparison of fenugreek drying in an indirect solar dryer and under open sun. <i>Heat and Mass Transfer</i> , 2016, 52, 1963-1972.	1.2	21

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109	Computational fluid dynamic analysis of innovative design of solar-biomass hybrid dryer: An experimental validation. <i>Renewable Energy</i> , 2016, 92, 185-191.	4.3	56
110	PREDICTION OF THE RATE OF MOISTURE EVAPORATION FROM JAGGERY IN GREENHOUSE DRYING USING THE FUZZY LOGIC. <i>Heat Transfer Research</i> , 2015, 46, 923-935.	0.9	15
111	A Comprehensive Overview of Renewable Energy Status in India. , 2015, , 91-105.		6
112	A review on biomass energy resources, potential, conversion and policy in India. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 45, 530-539.	8.2	372
113	Applications of software in solar drying systems: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 1326-1337.	8.2	74
114	Solar stills system design: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 153-181.	8.2	156
115	Heating potential evaluation of earthâ€“air heat exchanger system for winter season. <i>Journal of Building Physics</i> , 2015, 39, 242-260.	1.2	14
116	Annual Performance of a Modified Greenhouse Dryer Under Passive Mode In No-Load Conditions. <i>International Journal of Green Energy</i> , 2015, 12, 1091-1099.	2.1	32
117	Solar Photovoltaic Technology and Its Sustainability. <i>Green Energy and Technology</i> , 2015, , 3-25.	0.4	5
118	Historical and recent development of photovoltaic thermal (PVT) technologies. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 1428-1436.	8.2	151
119	Energy metrics of earthâ€“air heat exchanger system for hot and dry climatic conditions of India. <i>Energy and Buildings</i> , 2015, 86, 214-221.	3.1	61
120	Study on Calculation Models of Earth-Air Heat Exchanger Systems. <i>Journal of Energy</i> , 2014, 2014, 1-15.	1.4	30
121	Environomical Analysis and Mathematical Modelling for Tomato Flakes Drying in a Modified Greenhouse Dryer under Active Mode. <i>International Journal of Food Engineering</i> , 2014, 10, 669-681.	0.7	75
122	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> , 2014, 35, 186-192.	1.4	30
123	Thermal performance evaluation of modified active greenhouse dryer. <i>Journal of Building Physics</i> , 2014, 37, 395-402.	1.2	18
124	Solar greenhouse drying: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 29, 905-910.	8.2	138
125	ANFIS modelling of a natural convection greenhouse drying system for jaggery: an experimental validation. <i>International Journal of Sustainable Energy</i> , 2014, 33, 316-335.	1.3	50
126	Performance evaluation of greenhouse dryer with opaque north wall. <i>Heat and Mass Transfer</i> , 2014, 50, 493-500.	1.2	28



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127	A review of thermohydraulic performance of artificially roughened solar air heaters. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 37, 100-122.	8.2	78
128	DESIGN, DEVELOPMENT, AND TESTING OF A MODIFIED GREENHOUSE DRYER UNDER CONDITIONS OF NATURAL CONVECTION. <i>Heat Transfer Research</i> , 2014, 45, 433-451.	0.9	19
129	Experimental and analytical studies of earth-air heat exchanger (EAHE) systems in India: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2013, 19, 238-246.	8.2	151
130	Historical Review and Recent Trends in Solar Drying Systems. <i>International Journal of Green Energy</i> , 2013, 10, 690-738.	2.1	131
131	Calculation of total solar fraction for different orientation of greenhouse using 3D-shadow analysis in Auto-CAD. <i>Energy and Buildings</i> , 2012, 47, 27-34.	3.1	71
132	Wind energy status in India: A short review. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 1157-1164.	8.2	76
133	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> , 2012, 86, 1733-1749.	2.9	152
134	Effect of mass on convective mass transfer coefficient during open sun and greenhouse drying of onion flakes. <i>Journal of Food Engineering</i> , 2007, 79, 1337-1350.	2.7	91
135	Thermal modeling of a natural convection greenhouse drying system for jaggery: An experimental validation. <i>Solar Energy</i> , 2006, 80, 1135-1144.	2.9	84
136	Effect of shape and size on convective mass transfer coefficient during greenhouse drying (GHD) of Jaggery. <i>Journal of Food Engineering</i> , 2006, 73, 121-134.	2.7	43
137	Thermal Modeling and Parametric Study of a Forced Convection Greenhouse Drying System for Jaggery: An Experimental Validation. <i>International Journal of Agricultural Research</i> , 2006, 1, 265-279.	0.0	33
138	Role of Greenhouse Technology in Agricultural Engineering. <i>International Journal of Agricultural Research</i> , 2006, 1, 364-372.	0.0	33
139	Using renewable energy technologies for domestic cooking in India: a methodology for potential estimation. <i>Renewable Energy</i> , 2002, 26, 235-246.	4.3	47
140	EXPERIMENTAL INVESTIGATION ON THERMAL BEHAVIOR OF HYBRID SINGLE SLOPE SOLAR STILL. <i>Journal of Thermal Engineering</i> , 0, , 677-689.	0.8	2
141	Solar photovoltaic (PV)-driven active crop drying system for plantain ( MUSA SPP ): Design, development, and performance evaluation. <i>Journal of Food Process Engineering</i> , 0, , e13892.	1.5	0
142	Drying kinetics, performance, and quality assessment for banana slices using heat pump-assisted drying system ( HPADS ). <i>Journal of Food Process Engineering</i> , 0, , .	1.5	4