

Amrit Kumar Thakur

List of Publications by Year in descending order

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40
papers

1,155
citations

394421

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docs citations

43
times ranked

573
citing authors

#	ARTICLE	IF	CITATIONS
1	A state of art review and future viewpoint on advance cooling techniques for Lithium-ion battery system of electric vehicles. <i>Journal of Energy Storage</i> , 2020, 32, 101771.	8.1	137
2	Improving the performance of solar still using different heat localization materials. <i>Environmental Science and Pollution Research</i> , 2020, 27, 12332-12344.	5.3	77
3	Photovoltaics performance improvement using different cooling methodologies: A state-of-art review. <i>Journal of Cleaner Production</i> , 2020, 273, 122772.	9.3	74
4	Improved thermo-economic performance of solar desalination via copper chips, nanofluid, and nano-based phase change material. <i>Solar Energy</i> , 2021, 224, 1313-1325.	6.1	69
5	A critical review on phase change material energy storage systems with cascaded configurations. <i>Journal of Cleaner Production</i> , 2021, 283, 124653.	9.3	66
6	Performance amelioration of single basin solar still integrated with V- type concentrator: Energy, exergy, and economic analysis. <i>Environmental Science and Pollution Research</i> , 2021, 28, 3406-3420.	5.3	46
7	Sea-water desalination using a desalting unit integrated with a parabolic trough collector and activated carbon pellets as energy storage medium. <i>Desalination</i> , 2021, 516, 115217.	8.2	46
8	A novel reduced graphene oxide based absorber for augmenting the water yield and thermal performance of solar desalination unit. <i>Materials Letters</i> , 2021, 286, 128867.	2.6	45
9	Advancement in graphene-based nanocomposites as high capacity anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2628-2661.	10.3	39
10	Performance analysis of a modified solar still using reduced graphene oxide coated absorber plate with activated carbon pellet. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101046.	2.7	38
11	Infrared thermography-based condition monitoring of solar photovoltaic systems: A mini review of recent advances. <i>Solar Energy</i> , 2021, 223, 33-43.	6.1	38
12	Secondary transmission of SARS-CoV-2 through wastewater: Concerns and tactics for treatment to effectively control the pandemic. <i>Journal of Environmental Management</i> , 2021, 290, 112668.	7.8	36
13	Augmented performance of solar desalination unit by utilization of nano-silicon coated glass cover for promoting drop-wise condensation. <i>Desalination</i> , 2021, 515, 115191.	8.2	34
14	Exploring the potential of MXene-based advanced solar-absorber in improving the performance and efficiency of a solar-desalination unit for brackish water purification. <i>Desalination</i> , 2022, 526, 115521.	8.2	33
15	An experimental investigation of a water desalination unit using different microparticle-coated absorber plate: yield, thermal, economic, and environmental assessments. <i>Environmental Science and Pollution Research</i> , 2021, 28, 37371-37386.	5.3	26
16	Nano-enhanced cooling techniques for photovoltaic panels: A systematic review and prospect recommendations. <i>Solar Energy</i> , 2021, 227, 259-272.	6.1	25
17	Synergetic effect of absorber and condenser nano-coating on evaporation and thermal performance of solar distillation unit for clean water production. <i>Solar Energy Materials and Solar Cells</i> , 2022, 240, 111698.	6.2	24
18	Comparative Study and Yield Productivity of Nano-paint and Nano-fluid Used in a Passive-Type Single Basin Solar Still. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 709-716.	0.4	23

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19	Numerical investigation on the fluid droplet separation performance of corrugated plate gas-liquid separators. Separation and Purification Technology, 2020, 248, 117027.	7.9	22
20	A novel solar absorber using activated carbon nanoparticles synthesized from bio-waste for the performance improvement of solar desalination unit. Desalination, 2022, 527, 115564.	8.2	20
21	Optimization of a solar water heating system for vapor absorption refrigeration system. Environmental Progress and Sustainable Energy, 2021, 40, .	2.3	19
22	Exploring the thermo-physical characteristic of novel multi-wall carbon nanotube-therminol-55-based nanofluids for solar-thermal applications. Environmental Science and Pollution Research, 2021, , 1.	5.3	19
23	Low-cost bilayered structure for improving the performance of solar stills: Performance/cost analysis and water yield prediction using machine learning. Sustainable Energy Technologies and Assessments, 2022, 49, 101783.	2.7	19
24	Numerical analysis of chevron demisters with drainage hooks in optimizing separation performance. International Journal of Heat and Mass Transfer, 2020, 152, 119522.	4.8	17
25	Productivity Modeling Enhancement of a Solar Desalination Unit with Nanofluids Using Machine Learning Algorithms Integrated with Bayesian Optimization. Energy Technology, 2021, 9, 2100189.	3.8	16
26	Improved freshwater generation via hemispherical solar desalination unit using paraffin wax as phase change material encapsulated in waste aluminium cans. Desalination, 2022, 538, 115907.	8.2	16
27	Productivity Comparison of Solar Still with Nano Fluid and Phase Changing Material with Same Depth of Water. Springer Proceedings in Energy, 2018, , 119-129.	0.3	13
28	Improving the potable water generation through tubular solar still using eggshell powder (bio-based) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Science and Pollution Research, 2022, 29, 40903-40920.	5.3	12
29	Numerical analysis of heat transfer enhancement of fluid past an oscillating circular cylinder in laminar flow regime. Progress in Nuclear Energy, 2021, 139, 103853.	2.9	11
30	Augmented Yield Productivity of Solar Still Using Energy Storage Materials: Experimental Investigation Under the Climatic Conditions of Rajasthan. Green Energy and Technology, 2020, , 817-831.	0.6	11
31	Development of candle soot dispersed phase change material for improving water generation potential of tubular solar distillation unit. Solar Energy Materials and Solar Cells, 2022, 241, 111748.	6.2	11
32	Exploring the photo-thermal conversion behavior and extinction coefficient of activated carbon nanofluids for direct absorption solar collector applications. Environmental Science and Pollution Research, 2022, 29, 13188-13200.	5.3	10
33	Effects of ultrasonication and surfactant on the thermal and electrical conductivity of water - Solar glycol mixture based Al ₂ O ₃ nanofluids for solar-thermal applications. Sustainable Energy Technologies and Assessments, 2021, 47, 101371.	2.7	10
34	Productivity Enhancement of Passive Type Solar Still Using Copper and Aluminum Based Absorber Plate with Al ₂ O ₃ NanoFluid in Water Basin. Springer Proceedings in Energy, 2020, , 273-281.	0.3	9
35	A review on carbon nanomaterials for <sc>K&Cion</sc> battery anode: Progress and perspectives. International Journal of Energy Research, 2022, 46, 4033-4070.	4.5	9
36	Development of a novel cellulose foam augmented with candle-soot derived carbon nanoparticles for solar-powered desalination of brackish water. Environmental Science: Nano, 0, , .	4.3	9

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37	A case study of SARS-CoV-2 transmission behavior in a severely air-polluted city (Delhi, India) and the potential usage of graphene based materials for filtering air-pollutants and controlling/monitoring the COVID-19 pandemic. Environmental Sciences: Processes and Impacts, 2021, 23, 923-946.	3.5	7
38	A State of Art Critical Review on Advancement in MXenes for Electrochemical Energy Storage in the View of Interlayer Spacing. ECS Transactions, 2020, 99, 143-149.	0.5	5
39	Analysis of a solar still with photovoltaic modules and electrical heater - Energy and exergy approach. Environmental Science and Pollution Research, 2022, 29, 57453-57465.	5.3	5
40	Optimization of thermal efficiency on solar parabolic collectors using phase change materials "experimental and numerical study. Environmental Science and Pollution Research, 2022, 29, 14719-14732.	5.3	3