

Himanshu Tyagi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

2,257
citations

21
h-index

47
g-index

62
ext. papers

2,574
ext. citations

4.2
avg, IF

5.08
L-index

#	Paper	IF	Citations
51	Thermal design of a humidification-dehumidification desalination cycle consisting of packed-bed humidifier and finned-tube dehumidifier. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 183, 1221-1233	4.9	3
50	Use of Phase Change Materials for Energy-Efficient Buildings in India. <i>Energy, Environment, and Sustainability</i> , 2021 , 305-327	0.8	
49	Hybrid nanoparticles-laden fluid based spiral solar collector: A proof-of-concept experimental study. <i>Renewable Energy</i> , 2021 , 179, 1360-1369	8.1	2
48	Optimization of tumor ablation volume for nanoparticle-mediated thermal therapy. <i>International Journal of Thermal Sciences</i> , 2020 , 157, 106515	4.1	1
47	Mathematical Modelling of Solar Updraft Tower. <i>Energy, Environment, and Sustainability</i> , 2020 , 95-114	0.8	
46	Silicone oil envelope for enhancing the performance of nanofluid-based direct absorption solar collectors. <i>Renewable Energy</i> , 2020 , 145, 2733-2740	8.1	7
45	An integrated, solar-driven membrane distillation system for water purification and energy generation. <i>Applied Energy</i> , 2019 , 237, 534-548	10.7	83
44	Parametric study of the energy efficiency of the HDH desalination unit integrated with nanofluid-based solar collector. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 1465-1478	4.1	16
43	Application of Nanofluid-Based Direct Absorption Solar Collector in Once-Through Multistage Flash Desalination System. <i>Energy, Environment, and Sustainability</i> , 2019 , 519-535	0.8	2
42	Investigation of factors influencing the performance of nanofluid-based direct absorption solar collector using Taguchi method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 1493-1505	4.1	14
41	Experimental investigation of photo-thermal analysis of blended nanoparticles (Al ₂ O ₃ /Co ₃ O ₄) for direct absorption solar thermal collector. <i>Renewable Energy</i> , 2018 , 123, 616-626	8.1	61
40	Performance evaluation of a brine-recirculation multistage flash desalination system coupled with nanofluid-based direct absorption solar collector. <i>Renewable Energy</i> , 2018 , 122, 140-151	8.1	28
39	Solar Selective Volumetric Receivers for Harnessing Solar Thermal Energy. <i>Journal of Heat Transfer</i> , 2018 , 140,	1.8	10
38	Parameters influencing the performance of nanoparticles-laden fluid-based solar thermal collectors: A review on optical properties. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 84, 12-42	16.2	36
37	Potential Heat Transfer Fluids (Nanofluids) for Direct Volumetric Absorption-Based Solar Thermal Systems. <i>Journal of Thermal Science and Engineering Applications</i> , 2018 , 10,	1.9	24
36	Technological Advances to Maximize Solar Collector Energy Output: A Review. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2018 , 140,	2	8
35	Direct Absorption Solar Thermal Technologies. <i>Energy, Environment, and Sustainability</i> , 2018 , 81-97	0.8	1

34	Solar Thermal Energy: Use of Volumetric Absorption in Domestic Applications. <i>Energy, Environment, and Sustainability</i> , 2018 , 99-112	0.8	1
33	Biomass, Its Potential and Applications. <i>Biofuel and Biorefinery Technologies</i> , 2018 , 25-52	1	4
32	Biomass Gasification and Sustainability Assessment of Biomass Utilization. <i>Biofuel and Biorefinery Technologies</i> , 2018 , 53-85	1	1
31	Solar energy harvesting by cobalt oxide nanoparticles, a nanofluid absorption based system. <i>Sustainable Energy Technologies and Assessments</i> , 2017 , 24, 45-54	4.7	29
30	Time value of emission and technology discounting rate for off-grid electricity generation in India using intermediate pyrolysis. <i>Environmental Impact Assessment Review</i> , 2016 , 59, 10-26	5.3	
29	Nanoparticle-Laden Flow for Solar Absorption 2016 , 1-30		1
28	Solar Selective Volumetric Receivers for Harnessing Solar Thermal Energy 2016 ,		3
27	Limits of selectivity of direct volumetric solar absorption. <i>Solar Energy</i> , 2015 , 114, 206-216	6.8	45
26	Experimental and numerical investigation of heat confinement during nanoparticle-assisted thermal therapy. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 69, 11-17	5.8	14
25	The influence of tumour blood perfusion variability on thermal damage during nanoparticle-assisted thermal therapy. <i>International Journal of Hyperthermia</i> , 2015 , 31, 615-25	3.7	17
24	Envisioning advanced solar electricity generation: Parametric studies of CPV/T systems with spectral filtering and high temperature PV. <i>Applied Energy</i> , 2015 , 140, 224-233	10.7	68
23	Theoretical Analysis and Testing of Nanofluids-Based Solar Photovoltaic/Thermal Hybrid Collector. <i>Journal of Heat Transfer</i> , 2015 , 137,	1.8	45
22	Harvesting solar thermal energy through nanofluid-based volumetric absorption systems. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 77, 377-384	4.9	98
21	Investigation on nanoparticle distribution for thermal ablation of a tumour subjected to nanoparticle assisted thermal therapy. <i>Journal of Thermal Biology</i> , 2014 , 43, 70-80	2.9	41
20	Small particles, big impacts: A review of the diverse applications of nanofluids. <i>Journal of Applied Physics</i> , 2013 , 113, 011301	2.5	512
19	Role of optical coefficients and healthy tissue-sparing characteristics in gold nanorod-assisted thermal therapy. <i>International Journal of Hyperthermia</i> , 2013 , 29, 87-97	3.7	36
18	Trends and Opportunities in Direct-Absorption Solar Thermal Collectors. <i>Journal of Thermal Science and Engineering Applications</i> , 2013 , 5,	1.9	66
17	Numerical Study of Solar Photovoltaic/Thermal (PV/T) Hybrid Collector Using Nanofluids 2013 ,		11

16	Enhancing the efficiency of absorption refrigeration cycle by seeding nanoparticles directly in the working fluid. <i>International Journal of Environmental Studies</i> , 2013 , 70, 808-823	1.8	4
15	A study on environmental impact of nanofluid-based concentrating solar water heating system. <i>International Journal of Environmental Studies</i> , 2012 , 69, 220-232	1.8	32
14	Space Cooling Using the Concept of Nanofluids-Based Direct Absorption Solar Collectors 2012 ,		2
13	Critical Review of the Novel Applications and Uses of Nanofluids 2012 ,		9
12	Solar Energy Harvesting Using Nanofluids-Based Concentrating Solar Collector. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2012 , 3,		140
11	Enhancing Optical Efficiency of a Linear Parabolic Solar Collector through Nanofluids 2011 ,		6
10	Spatially Varying Extinction Coefficient for Direct Absorption Solar Thermal Collector Optimization. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2011 , 133,	2.3	36
9	Tuning the Extinction Coefficient for Direct Absorption Solar Thermal Collector Optimization 2010 ,		1
8	Applicability of Nanofluids in Concentrated Solar Energy Harvesting 2010 ,		10
7	Predicted Efficiency of a Low-Temperature Nanofluid-Based Direct Absorption Solar Collector. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2009 , 131,	2.3	419
6	Thermochemical Conversion of Biomass Using Solar Energy: Use of Nanoparticle-Laden Molten Salt as the Working Fluid 2009 ,		2
5	Increased hot-plate ignition probability for nanoparticle-laden diesel fuel. <i>Nano Letters</i> , 2008 , 8, 1410-6	11.5	254
4	Predicted Efficiency of a Nanofluid-Based Direct Absorption Solar Receiver 2007 , 729		22
3	Measurement of wake properties of a sphere in freestream turbulence. <i>Experimental Thermal and Fluid Science</i> , 2006 , 30, 587-604	3	29
2	Experimental Study of Vortex Shedding From a Solid Sphere in Turbulent Freestream 2005 ,		2
1	Thermodynamic Analysis of the Volumetric Absorption Solar Collector driven Direct Contact Membrane Distillation System. <i>Journal of Thermal Science and Engineering Applications</i> , 1-19	1.9	