

Himanshu Tyagi

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,916
citations

304602

22
h-index

315616

38
g-index

62
all docs

62
docs citations

62
times ranked

2616
citing authors

#	ARTICLE	IF	CITATIONS
1	Small particles, big impacts: A review of the diverse applications of nanofluids. Journal of Applied Physics, 2013, 113, .	1.1	622
2	Predicted Efficiency of a Low-Temperature Nanofluid-Based Direct Absorption Solar Collector. Journal of Solar Energy Engineering, Transactions of the ASME, 2009, 131, .	1.1	533
3	Increased Hot-Plate Ignition Probability for Nanoparticle-Laden Diesel Fuel. Nano Letters, 2008, 8, 1410-1416.	4.5	305
4	Solar Energy Harvesting Using Nanofluids-Based Concentrating Solar Collector. Journal of Nanotechnology in Engineering and Medicine, 2012, 3, .	0.8	166
5	An integrated, solar-driven membrane distillation system for water purification and energy generation. Applied Energy, 2019, 237, 534-548.	5.1	127
6	Harvesting solar thermal energy through nanofluid-based volumetric absorption systems. International Journal of Heat and Mass Transfer, 2014, 77, 377-384.	2.5	123
7	Trends and Opportunities in Direct-Absorption Solar Thermal Collectors. Journal of Thermal Science and Engineering Applications, 2013, 5, .	0.8	83
8	Experimental investigation of photo-thermal analysis of blended nanoparticles (Al ₂ O ₃ /Co ₃ O ₄) for direct absorption solar thermal collector. Renewable Energy, 2018, 123, 616-626.	4.3	82
9	Envisioning advanced solar electricity generation: Parametric studies of CPV/T systems with spectral filtering and high temperature PV. Applied Energy, 2015, 140, 224-233.	5.1	76
10	Theoretical Analysis and Testing of Nanofluids-Based Solar Photovoltaic/Thermal Hybrid Collector. Journal of Heat Transfer, 2015, 137, .	1.2	70
11	Investigation on nanoparticle distribution for thermal ablation of a tumour subjected to nanoparticle assisted thermal therapy. Journal of Thermal Biology, 2014, 43, 70-80.	1.1	56
12	Limits of selectivity of direct volumetric solar absorption. Solar Energy, 2015, 114, 206-216.	2.9	55
13	Parameters influencing the performance of nanoparticles-laden fluid-based solar thermal collectors: A review on optical properties. Renewable and Sustainable Energy Reviews, 2018, 84, 12-42.	8.2	52
14	Role of optical coefficients and healthy tissue-sparing characteristics in gold nanorod-assisted thermal therapy. International Journal of Hyperthermia, 2013, 29, 87-97.	1.1	51
15	Spatially Varying Extinction Coefficient for Direct Absorption Solar Thermal Collector Optimization. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, .	1.1	45
16	A study on environmental impact of nanofluid-based concentrating solar water heating system. International Journal of Environmental Studies, 2012, 69, 220-232.	0.7	44
17	Performance evaluation of a brine-recirculation multistage flash desalination system coupled with nanofluid-based direct absorption solar collector. Renewable Energy, 2018, 122, 140-151.	4.3	44
18	Solar energy harvesting by cobalt oxide nanoparticles, a nanofluid absorption based system. Sustainable Energy Technologies and Assessments, 2017, 24, 45-54.	1.7	35

#	ARTICLE	IF	CITATIONS
19	Potential Heat Transfer Fluids (Nanofluids) for Direct Volumetric Absorption-Based Solar Thermal Systems. <i>Journal of Thermal Science and Engineering Applications</i> , 2018, 10, .	0.8	34
20	Measurement of wake properties of a sphere in freestream turbulence. <i>Experimental Thermal and Fluid Science</i> , 2006, 30, 587-604.	1.5	33
21	Predicted Efficiency of a Nanofluid-Based Direct Absorption Solar Receiver. , 2007, , 729.		33
22	The influence of tumour blood perfusion variability on thermal damage during nanoparticle-assisted thermal therapy. <i>International Journal of Hyperthermia</i> , 2015, 31, 615-625.	1.1	26
23	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, 122153.	2.5	25
24	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.	2.0	24
25	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.	2.0	23
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.	2.9	21
27	Solar Selective Volumetric Receivers for Harnessing Solar Thermal Energy. <i>Journal of Heat Transfer</i> , 2018, 140, .	1.2	17
28	Technological Advances to Maximize Solar Collector Energy Output: A Review. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2018, 140, .	1.2	16
29	Numerical Study of Solar Photovoltaic/Thermal (PV/T) Hybrid Collector Using Nanofluids. , 2013, , .		15
30	Critical Review of the Novel Applications and Uses of Nanofluids. , 2012, , .		12
31	Applicability of Nanofluids in Concentrated Solar Energy Harvesting. , 2010, , .		11
32	Silicone oil envelope for enhancing the performance of nanofluid-based direct absorption solar collectors. <i>Renewable Energy</i> , 2020, 145, 2733-2740.	4.3	9
33	Enhancing Optical Efficiency of a Linear Parabolic Solar Collector through Nanofluids. , 2011, , .		7
34	Biomass, Its Potential and Applications. <i>Biofuel and Biorefinery Technologies</i> , 2018, , 25-52.	0.1	6
35	Hybrid nanoparticles-laden fluid based spiral solar collector: A proof-of-concept experimental study. <i>Renewable Energy</i> , 2021, 179, 1360-1369.	4.3	6
36	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.	0.7	5

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37	Solar Selective Volumetric Receivers for Harnessing Solar Thermal Energy. , 2016, , .		3
38	Biomass Gasification and Sustainability Assessment of Biomass Utilization. Biofuel and Biorefinery Technologies, 2018, , 53-85.	0.1	3
39	Optimization of tumor ablation volume for nanoparticle-mediated thermal therapy. International Journal of Thermal Sciences, 2020, 157, 106515.	2.6	3
40	Thermochemical Conversion of Biomass Using Solar Energy: Use of Nanoparticle-Laden Molten Salt as the Working Fluid. , 2009, , .		2
41	Space Cooling Using the Concept of Nanofluids-Based Direct Absorption Solar Collectors. , 2012, , .		2
42	Experimental Study of Vortex Shedding From a Solid Sphere in Turbulent Freestream. , 2005, , .		2
43	Tuning the Extinction Coefficient for Direct Absorption Solar Thermal Collector Optimization. , 2010, , .		1
44	Time value of emission and technology discounting rate for off-grid electricity generation in India using intermediate pyrolysis. Environmental Impact Assessment Review, 2016, 59, 10-26.	4.4	1
45	Direct Absorption Solar Thermal Technologies. Energy, Environment, and Sustainability, 2018, , 81-97.	0.6	1
46	Solar Thermal Energy: Use of Volumetric Absorption in Domestic Applications. Energy, Environment, and Sustainability, 2018, , 99-112.	0.6	1
47	Use of Phase Change Materials for Energy-Efficient Buildings in India. Energy, Environment, and Sustainability, 2021, , 305-327.	0.6	1
48	Experimental Investigation of Perforated Plate Turbulent Flow Past a Solid Sphere. , 2004, , .		1
49	Nanoparticle-Laden Flow for Solar Absorption. , 2016, , 1-30.		1
50	Ignition and Combustion Characteristics of Liquid Fuel Droplets Containing Metal Nanoparticles. , 2008, , .		0
51	Light Interaction of a Nanoparticle Embedded Tissue towards a Novel Hyperthermia Treatment. , 2011, , .		0
52	Spatiotemporal Temperature in a Tumor During Nanorod Assisted Thermal Therapy. , 2013, , .		0
53	Wind Solar Hybrid Power System Modeling and Analysis. , 2013, , .		0
54	Effect of Nanoparticle Concentration on Thermal Damage in Nanoparticle-Assisted Thermal Therapy. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
55	Numerical Study of Nanofluid-Based Solar Collector for Humidification-Dehumidification (HDH) Desalination. , 2018, , .		0
56	NUMERICAL INVESTIGATION OF INFLUENCE OF SURFACE DEPOSITION OF NANOPARTICLES IN TUMORS DURING NANOFLUID INJECTION. , 2021, , .		0
57	PARAMETRIC ANALYSIS BETWEEN CLOSED AIR OPEN WATER (CAOW) AND CLOSED WATER OPEN AIR (CWOA) HDH CYCLES. , 2021, , .		0
58	PERFORMANCE INDEX OF THE HDH DESALINATION UNIT DRIVEN BY NANOFLUID BASED SOLAR COLLECTOR. , 2019, , .		0
59	Mathematical Modelling of Solar Updraft Tower. Energy, Environment, and Sustainability, 2020, , 95-114.	0.6	0
60	Thermodynamic Analysis of the Volumetric Absorption Solar Collector-Driven Direct Contact Membrane Distillation System. Journal of Thermal Science and Engineering Applications, 2022, 14, .	0.8	0