

# Santosh Ravichandran

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

501  
citations

759055

12  
h-index

713332

21  
g-index

22  
all docs

22  
docs citations

22  
times ranked

430  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical studies of thermal performance enhancement in the receiver part of solar parabolic trough collectors. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 77, 1363-1374.	8.2	103
2	Technological advancements in solar energy driven humidification-dehumidification desalination systems - A review. <i>Journal of Cleaner Production</i> , 2019, 207, 826-845.	4.6	79
3	Investigation of humidification-dehumidification desalination system through waste heat recovery from household air conditioning unit. <i>Desalination</i> , 2019, 467, 1-11.	4.0	43
4	Experimental parametric investigation of waste heat powered humidification dehumidification system for production of freshwater from wastewater. <i>Desalination</i> , 2020, 484, 114422.	4.0	42
5	A comprehensive review on humidifiers and dehumidifiers in solar and low-grade waste heat powered humidification-dehumidification desalination systems. <i>Journal of Cleaner Production</i> , 2022, 347, 131300.	4.6	35
6	Performance evaluation and optimization of humidification-dehumidification desalination system for low-grade waste heat energy applications. <i>Desalination</i> , 2022, 526, 115516.	4.0	31
7	Experimental and numerical investigation of solar flat plate cooking unit for domestic applications. <i>Energy</i> , 2018, 157, 436-447.	4.5	29
8	Effect of Structural Heterogeneity on In Situ Deformation of Dissimilar Weld Between Ferritic and Austenitic Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 3555-3568.	1.1	21
9	Optimization of a solar water heating system for vapor absorption refrigeration system. <i>Environmental Progress and Sustainable Energy</i> , 2021, 40, .	1.3	19
10	Study of effect of Al and Cu microparticles dispersed in D-Mannitol PCM for effective solar thermal energy storage. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 895-904.	2.0	16
11	Comprehensive insights into performance of water gap and air gap membrane distillation modules using hollow fiber membranes. <i>Desalination</i> , 2022, 525, 115497.	4.0	16
12	Numerical Analysis of Baffle Cut on Shell Side Heat Exchanger Performance with Inclined Baffles. <i>Heat Transfer Engineering</i> , 2018, 39, 1156-1165.	1.2	14
13	Performance evaluation of solar box cooker assisted with latent heat energy storage system for cooking application. <i>IOP Conference Series: Earth and Environmental Science</i> , 2017, 67, 012017.	0.2	12
14	Humidification-Dehumidification Desalination System Powered by Simultaneous Air-Water Solar Heater. <i>Sustainability</i> , 2021, 13, 13491.	1.6	10
15	Experimental and Computational Investigation of Structural Integrity of Dissimilar Metal Weld Between Ferritic and Austenitic Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 2099-2112.	1.1	8
16	CFD and Experimental Analysis of Phase Change Material Behaviour Encapsulated in Internally Finned Spherical Capsule. <i>E3S Web of Conferences</i> , 2019, 128, 01002.	0.2	6
17	Comparative investigation on heat transfer enhancement of surface-roughened and nano-dispersed phase change material for thermal energy storage. <i>International Journal of Energy Research</i> , 2021, 45, 15992-16005.	2.2	6
18	Three-Dimensional Thermomechanical Simulation and Experimental Validation on Failure of Dissimilar Material Welds. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 3511-3521.	1.1	3

#	ARTICLE	IF	CITATIONS
19	Experimental Evaluation of PVA as Novel Humidifier Material for Humidification-Dehumidification Applications. <i>Journal of Testing and Evaluation</i> , 2021, 49, 2730-2741.	0.4	3
20	Optimized modeling and experimental investigation on the thermal/electrical characteristics of <sc>MWCNT</sc> nanofluid for effective solar thermal applications. <i>International Journal of Energy Research</i> , 2022, 46, 4572-4587.	2.2	3
21	Effect of Teflon-Coated PVDF Membrane on the Performance of a Solar-Powered Direct Contact Membrane Distillation System. <i>Sustainability</i> , 2022, 14, 6895.	1.6	2
22	Effect of different parameters on uncertainty during evaluation of strength of dissimilar metal weld. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2016, 47, 845-851.	0.5	0