Hamza Babar

List of Publications by Year
in descending order

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20 papers	1,388 citations	759233 12 h-index	1125743 13 g-index
20 all docs	20 docs citations	20 times ranked	1054 citing authors

#	Article	IF	Citations
1	Recent advances on the fundamental physical phenomena behind stability, dynamic motion, thermophysical properties, heat transport, applications, and challenges of nanofluids. Physics Reports, 2022, 946, 1-94.	25.6	179
2	Oriented square shaped pin-fin heat sink: Performance evaluation employing mixture based on ethylene glycol/water graphene oxide nanofluid. Applied Thermal Engineering, 2022, 206, 118085.	6.0	30
3	Potential evaluation of water-based ferric oxide (Fe2O3-water) nanocoolant: An experimental study. Energy, 2022, 246, 123441.	8.8	9
4	Staggered oriented airfoil shaped pin-fin heat sink: Investigating the efficacy of novel water based ferric oxide-silica hybrid nanofluid. International Journal of Heat and Mass Transfer, 2022, 194, 123085.	4.8	29
5	Heat pipes: progress in thermal performance enhancement for microelectronics. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2227-2243.	3.6	37
6	Advanced Thermal Energy Storage Materials. , 2021, , 31-69.		0
7	Thermal Energy Storage System. , 2021, , 13-30.		0
8	Thermophysical Properties of Advanced Energy Storage Materials. , 2021, , 71-78.		0
9	Energy Storage Materials in Thermal Storage Applications. , 2021, , 79-117.		1
10	Energy harvesting: role of hybrid nanofluids. , 2021, , 173-211.		4
11	Concentrated photovoltaics as light harvesters: Outlook, recent progress, and challenges. Sustainable Energy Technologies and Assessments, 2021, 46, 101199.	2.7	63
12	Internal convective heat transfer of nanofluids in different flow regimes: A comprehensive review. Physica A: Statistical Mechanics and Its Applications, 2020, 538, 122783.	2.6	53
13	Nanofluid: Potential evaluation in automotive radiator. Journal of Molecular Liquids, 2020, 297, 112014.	4.9	105
14	Hybrid nanofluids as a heat transferring media. , 2020, , 143-177.		2
15	Airfoil shaped pin-fin heat sink: Potential evaluation of ferric oxide and titania nanofluids. Energy Conversion and Management, 2019, 202, 112194.	9.2	84
16	Solar energy systems â€“ Potential of nanofluids. Journal of Molecular Liquids, 2019, 289, 111049.	4.9	143
17	Towards hybrid nanofluids: Preparation, thermophysical properties, applications, and challenges. Journal of Molecular Liquids, 2019, 281, 598-633.	4.9	342
18	Viscosity of hybrid nanofluids: A critical review. Thermal Science, 2019, 23, 1713-1754.	1.1	106

#	Article	IF	Citations
19	Preparation Techniques of TiO2 Nanofluids and Challenges: A Review. Applied Sciences (Switzerland), 2018, 8, 587.	2.5	187
20	Application of Nanofluids for Thermal Management of Photovoltaic Modules: A Review. , 0, , .		14