

Haider Ali

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

910
citations

516710

16
h-index

477307

29
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58
all docs

58
docs citations

58
times ranked

756
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of dust and mud on the optical, chemical and mechanical properties of a pv protective glass. Scientific Reports, 2015, 5, 15833.	3.3	94
2	Thermodynamic analysis of a thermoelectric power generator in relation to geometric configuration device pins. Energy Conversion and Management, 2014, 78, 634-640.	9.2	93
3	Dynamics of a water droplet on a hydrophobic inclined surface: influence of droplet size and surface inclination angle on droplet rolling. RSC Advances, 2017, 7, 48806-48818.	3.6	80
4	Water Droplet Dynamics on a Hydrophobic Surface in Relation to the Self-Cleaning of Environmental Dust. Scientific Reports, 2018, 8, 2984.	3.3	59
5	Characterization of Environmental Dust in the Dammam Area and Mud After-Effects on Bisphenol-A Polycarbonate Sheets. Scientific Reports, 2016, 6, 24308.	3.3	49
6	A Water Droplet Pinning and Heat Transfer Characteristics on an Inclined Hydrophobic Surface. Scientific Reports, 2018, 8, 3061.	3.3	38
7	Innovative design of a thermoelectric generator with extended and segmented pin configurations. Applied Energy, 2017, 187, 367-379.	10.1	37
8	Heat transfer characteristics and internal fluidity of a sessile droplet on hydrophilic and hydrophobic surfaces. Applied Thermal Engineering, 2016, 108, 628-640.	6.0	36
9	Configuration of segmented leg for the enhanced performance of segmented thermoelectric generator. International Journal of Energy Research, 2017, 41, 274-288.	4.5	31
10	Segmented thermoelectric generator: Influence of pin shape configuration on the device performance. Energy, 2016, 111, 439-452.	8.8	27
11	Surface Characteristics of Silicon Nanowires/Nanowalls Subjected to Octadecyltrichlorosilane Deposition and n-octadecane Coating. Scientific Reports, 2016, 6, 38678.	3.3	24
12	Influence of thermalcapillary and buoyant forces on flow characteristics in a droplet on hydrophobic surface. International Journal of Thermal Sciences, 2016, 102, 239-253.	4.9	23
13	Water droplet mobility on a hydrophobic surface under a thermal radiative heating. Applied Thermal Engineering, 2018, 128, 92-106.	6.0	22
14	Silicone oil impregnated nano silica modified glass surface and influence of environmental dust particles on optical transmittance. RSC Advances, 2017, 7, 29762-29771.	3.6	19
15	Innovative design of a thermoelectric generator of extended legs with tapering and segmented pin configuration: Thermal performance analysis. Applied Thermal Engineering, 2017, 123, 74-91.	6.0	19
16	Environmental dust effects on aluminum surfaces in humid air ambient. Scientific Reports, 2017, 7, 45999.	3.3	17
17	Segmented thermoelectric generator: exponential area variation in leg. International Journal of Energy Research, 2018, 42, 477-489.	4.5	17
18	Influence of pin material configurations on thermoelectric generator performance. Energy Conversion and Management, 2016, 129, 157-167.	9.2	15

#	ARTICLE	IF	CITATIONS
19	Internal flow and heat transfer in a droplet located on a superhydrophobic surface. International Journal of Thermal Sciences, 2017, 121, 213-227.	4.9	15
20	Environmental dust removal from inclined hydrophobic glass surface: avalanche influence on dynamics of dust particles. RSC Advances, 2018, 8, 33775-33785.	3.6	14
21	Droplet Impacting on a Hydrophobic Surface: Influence of Surface Wetting State on Droplet Behavior. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	1.5	14
22	Heat Transfer and Fluid Flow Characteristics in a Sessile Droplet on Oil-Impregnated Surface Under Thermal Disturbance. Journal of Heat Transfer, 2017, 139, .	2.1	13
23	Droplet dynamics on a hydrophobic surface coated with N-octadecane phase change material. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 546, 28-39.	4.7	13
24	Reversible exchange of wetting state of a hydrophobic surface via phase change material coating. RSC Advances, 2018, 8, 938-947.	3.6	12
25	Influence of heat source size and film thickness on phonon transport in a two-dimensional thin film. Journal of Non-Equilibrium Thermodynamics, 2014, 39, .	4.2	10
26	Assessment of optical transmittance of oil impregnated and non-wetted surfaces in outdoor environment towards solar energy harvesting. Solar Energy, 2018, 163, 25-31.	6.1	10
27	Phonon Transport in Silicon-Diamond Thin Film Pairs: Consideration of Thermal Boundary Resistance Due to Cutoff Mismatch and Diffusive Mismatch Models. Numerical Heat Transfer; Part A: Applications, 2015, 68, 1307-1330.	2.1	9
28	Adhesion of a water droplet on inclined hydrophilic surface and internal fluidity. International Journal of Adhesion and Adhesives, 2020, 96, 102464.	2.9	9
29	Thermal transport in thin dielectric films with minute size aluminum dot in relation to microelectronics. Applied Thermal Engineering, 2017, 127, 1025-1035.	6.0	8
30	Water Droplet Adhesion on Hydrophobic Surfaces: Influence of Droplet Size and Inclination Angle of Surface on Adhesion Force. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	1.5	8
31	Entropy generation in silicon thin film: Influence of film thickness on entropy generation rate. Journal of Non-Equilibrium Thermodynamics, 2014, 39, 147-158.	4.2	7
32	Energy Transport across the Thin Films Pair with Presence of Minute Vacuum Gap at Interface. Journal of Non-Equilibrium Thermodynamics, 2017, 42, 113-131.	4.2	7
33	Performance Analysis of Air and Oxy-Fuel Laminar Combustion in a Porous Plate Reactor. Energies, 2019, 12, 1706.	3.1	7
34	Exergy analysis of a thermoelectric power generator: influence of bi-tapered pin geometry on device characteristics. International Journal of Exergy, 2015, 16, 53.	0.4	6
35	Phonon transport characteristics across silicon thin film pair: Presence of a gap between the films. Journal of Non-Equilibrium Thermodynamics, 2015, 40, .	4.2	6
36	Sol-gel coating of colloidal particles deposited glass surface pertinent to self-cleaning applications. Progress in Organic Coatings, 2019, 127, 202-210.	3.9	6

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37	Texture Analysis of Hydrophobic Polycarbonate and Polydimethylsiloxane Surfaces via Persistent Homology. <i>Coatings</i> , 2017, 7, 139.	2.6	5
38	Thermal Characteristics of an Aluminum Thin Film due to Temperature Disturbance at Film Edges. <i>International Journal of Thermophysics</i> , 2015, 36, 157-182.	2.1	4
39	Thermal transport across a pair of thin silicon films with the presence of minute vacuum gap: effect of film thickness on thermal characteristics. <i>Canadian Journal of Physics</i> , 2016, 94, 933-944.	1.1	4
40	Droplet Heat Transfer on Micropost Arrays With Hydrophobic and Hydrophilic Characteristics. <i>Journal of Heat Transfer</i> , 2018, 140, .	2.1	4
41	Laser fabricated tungsten oxide surface for solar energy harvesting and dust effects. <i>Solar Energy Materials and Solar Cells</i> , 2019, 191, 190-198.	6.2	4
42	Mobility of A Water Droplet on Liquid Phase of N-Octadecane Coated Hydrophobic Surface. <i>Scientific Reports</i> , 2018, 8, 15060.	3.3	3
43	Thermal stress analysis and entropy generation rate due to laser short pulse heating of a metallic surface. <i>Canadian Journal of Physics</i> , 2014, 92, 1681-1687.	1.1	2
44	Transient Effects of Temperature Disturbance on Phonon Characteristics in Thin Diamond Film. <i>Journal of Computational and Theoretical Transport</i> , 2015, 44, 119-140.	0.8	2
45	Microscale Thermal Energy Transfer Between Thin Films with Vacuum Gap at Interface. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2019, 44, 123-142.	4.2	2
46	Application of Water Droplet for Self-Cleaning of Surfaces. , 2019, , 375-421.		2
47	Crossplane Phonon Transport and Thermal Boundary Resistance Across Thin Films Pair. <i>Journal of Thermophysics and Heat Transfer</i> , 2019, 33, 139-153.	1.6	1
48	Phonon transfer in silicon-diamond films: Influence of thermal boundary resistance on acoustic phonon intensities. <i>Physica B: Condensed Matter</i> , 2019, 556, 82-96.	2.7	1
49	Impacting Water Droplets Can Alleviate Dust from Slanted Hydrophobic Surfaces. <i>Langmuir</i> , 2021, 37, 4355-4369.	3.5	1
50	Analysis of steam reforming of methane integrated with solar central receiver system. , 2018, , .		1
51	Thermal Disturbance of Thin Films Pair: Cross-Plane Thermal Energy Transfer. <i>Journal of Computational and Theoretical Transport</i> , 2018, 47, 152-186.	0.8	0
52	Thermal Boundary Resistance for Cross-Plane Transport and the Presence of Minute Vacuum Gap at Interface. , 2018, , 307-375.		0
53	Environmental Dust on Surfaces. , 2019, , 99-132.		0
54	Water-Droplet Dynamics and Heat Transfer. , 2019, , 133-284.		0

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55	Thermal Energy Transport Across Combined Films: Thermal Characteristics. Journal of Non-Equilibrium Thermodynamics, 2019, 44, 439-453.	4.2	0
56	Heating of a water droplet on inclined transparent polydimethylsiloxane (PDMS) surface. Heat and Mass Transfer, 2020, 56, 1503-1522.	2.1	0
57	Thermally excited quantum dot and energy transfer in thin films. Physica B: Condensed Matter, 2020, 595, 412346.	2.7	0
58	Analysis of steam reforming of methane integrated with solar central receiver system. , 2018, , .		0