Zafer Dursunkaya

List of Publications by Year
in descending order

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35	600	1040056	677142
papers	citations	9	22
		h-index	g-index

35	35	35	256
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	HIZLI VE Ã–NGÃ–RÃœLÃœ ISI BORUSU TASARIM VE ANALÄ°Z ARACI: H-PAT. Isi Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology, 2022, 42, 141-156.	0.6	3
2	Capillary boosting for enhanced heat pipe performance through bifurcation of grooves: Numerical assessment and experimental validation. International Communications in Heat and Mass Transfer, 2022, 137, 106162.	5.6	9
3	Interplay of transport mechanisms during the evaporation of a pinned sessile water droplet. Physical Review Fluids, 2021, 6, .	2.5	7
4	Modeling the Evaporation of Drying Sessile Droplets with Buoyancy Driven Internal Convection. E3S Web of Conferences, 2021, 321, 04013.	0.5	0
5	Performance of a flat grooved heat pipe with a localized heat load. E3S Web of Conferences, 2021, 321, 04010.	0.5	0
6	On the effect of structural forces on a condensing film profile near a fin-groove corner. International Communications in Heat and Mass Transfer, 2020, 116, 104686.	5.6	3
7	A theoretical framework for comprehensive modeling of steadily fed evaporating droplets and the validity of common assumptions. International Journal of Thermal Sciences, 2020, 158, 106529.	4.9	11
8	The effect of surface morphology on the rate of phase change of micron and sub-micron sized 2-D droplets. Nanoscale and Microscale Thermophysical Engineering, 2020, 24, 184-200.	2.6	0
9	Limitations of Matching Condensing Film Profile on a Micro Fin with the Groove: Critical Effect of Disjoining Pressure. Nanoscale and Microscale Thermophysical Engineering, 2019, 23, 289-303.	2.6	4
10	The effect of disjoining pressure on the shape of condensing films in a fin-groove corner. International Journal of Thermal Sciences, 2019, 142, 357-365.	4.9	10
11	An Iterative Solution Approach to Coupled Heat and Mass Transfer in a Steadily Fed Evaporating Water Droplet. Journal of Heat Transfer, 2019, 141, .	2.1	9
12	Experimental Thermal Performance Characterization of Flat Grooved Heat Pipes. Heat Transfer Engineering, 2019, 40, 784-793.	1.9	25
13	Effect of design and operating parameters on the thermal performance of aluminum flat grooved heat pipes. Applied Thermal Engineering, 2018, 132, 174-187.	6.0	54
14	Two-dimensional computational modeling of thin film evaporation. International Journal of Thermal Sciences, 2017, 121, 237-248.	4.9	28
15	Modeling of Evaporation From a Sessile Constant Shape Droplet. , 2017, , .		3
16	A new approach to thin film evaporation modeling. International Journal of Heat and Mass Transfer, 2016, 101, 742-748.	4.8	41
17	A numerical algorithm to determine straightness error, surface roughness, and waviness measured using a fiber optic interferometer. Optics and Laser Technology, 2016, 85, 19-29.	4.6	9
18	Three-dimensional grain design optimization of solid rocket motors. , 2015, , .		2

#	Article	IF	Citations
19	An Interferometric Technique for Measuring Micron Level Clearances Filled With a Lubricant. , 2010, , .		0
20	Generalized transient temperature behavior in induction heated workpieces. Journal of Materials Processing Technology, 2009, 209, 5932-5939.	6.3	10
21	Development of an Interferometric Technique to be Used in Measuring Micron Level Clearances Filled With a Lubricant. , 2009, , .		0
22	Heat transfer effects on the stability of low speed plane Couette-Poiseuille flow. Heat and Mass Transfer, 2007, 43, 1317-1328.	2.1	6
23	Accuracy of the two-iteration spectral method for phase change problems. Applied Mathematical Modelling, 2006, 30, 1515-1524.	4.2	2
24	Experimental Investigation of Oil Accumulation in Second Land of Internal Combustion Engines. Journal of Engineering for Gas Turbines and Power, 2005, 127, 206-212.	1.1	1
25	Numerical solution of solidification in a square prism using an algebraic grid generation technique. Heat and Mass Transfer, 2003, 40, 91-97.	2.1	2
26	Solidification of a Finite Medium Subject to a Periodic Variation of Boundary Temperature. Journal of Applied Mechanics, Transactions ASME, 2003, 70, 633-637.	2.2	8
27	A Model of Piston Secondary Motion and Elastohydrodynamic Skirt Lubrication. Journal of Tribology, 1994, 116, 777-785.	1.9	57
28	Experimental and Numerical Investigation of Inter-Ring Gas Pressures and Blowby in a Diesel Engine. , 1993, , .		12
29	A Comprehensive Model of Piston Skirt Lubrication. , 1992, , .		30
30	Diffusion-thermo and thermal-diffusion effects in transient and steady natural convection from a vertical surface. International Journal of Heat and Mass Transfer, 1992, 35, 2060-2065.	4.8	111
31	An Integrated Model of Ring Pack Performance. Journal of Engineering for Gas Turbines and Power, 1991, 113, 382-389.	1.1	81
32	A Moving Boundary Problem in a Finite Domain. Journal of Applied Mechanics, Transactions ASME, 1990, 57, 50-56.	2.2	11
33	A Model for Evaporative Consumption of Lubricating Oil in Reciprocating Engines. , 0, , .		19
34	Simulation of Secondary Dynamics of Articulated and Conventional Piston Assemblies. , 0, , .		20
35	An Integrated Design Analysis Methodology to Address Piston Tribological Issues. , 0, , .		12