

Zafer Dursunkaya

List of Publications by Year in descending order

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35
papers

600
citations

1040056

9
h-index

677142

22
g-index

35
all docs

35
docs citations

35
times ranked

256
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion-thermo and thermal-diffusion effects in transient and steady natural convection from a vertical surface. <i>International Journal of Heat and Mass Transfer</i> , 1992, 35, 2060-2065.	4.8	111
2	An Integrated Model of Ring Pack Performance. <i>Journal of Engineering for Gas Turbines and Power</i> , 1991, 113, 382-389.	1.1	81
3	A Model of Piston Secondary Motion and Elastohydrodynamic Skirt Lubrication. <i>Journal of Tribology</i> , 1994, 116, 777-785.	1.9	57
4	Effect of design and operating parameters on the thermal performance of aluminum flat grooved heat pipes. <i>Applied Thermal Engineering</i> , 2018, 132, 174-187.	6.0	54
5	A new approach to thin film evaporation modeling. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 742-748.	4.8	41
6	A Comprehensive Model of Piston Skirt Lubrication. , 1992, , .		30
7	Two-dimensional computational modeling of thin film evaporation. <i>International Journal of Thermal Sciences</i> , 2017, 121, 237-248.	4.9	28
8	Experimental Thermal Performance Characterization of Flat Grooved Heat Pipes. <i>Heat Transfer Engineering</i> , 2019, 40, 784-793.	1.9	25
9	Simulation of Secondary Dynamics of Articulated and Conventional Piston Assemblies. , 0, , .		20
10	A Model for Evaporative Consumption of Lubricating Oil in Reciprocating Engines. , 0, , .		19
11	An Integrated Design Analysis Methodology to Address Piston Tribological Issues. , 0, , .		12
12	Experimental and Numerical Investigation of Inter-Ring Gas Pressures and Blowby in a Diesel Engine. , 1993, , .		12
13	A Moving Boundary Problem in a Finite Domain. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1990, 57, 50-56.	2.2	11
14	A theoretical framework for comprehensive modeling of steadily fed evaporating droplets and the validity of common assumptions. <i>International Journal of Thermal Sciences</i> , 2020, 158, 106529.	4.9	11
15	Generalized transient temperature behavior in induction heated workpieces. <i>Journal of Materials Processing Technology</i> , 2009, 209, 5932-5939.	6.3	10
16	The effect of disjoining pressure on the shape of condensing films in a fin-groove corner. <i>International Journal of Thermal Sciences</i> , 2019, 142, 357-365.	4.9	10
17	A numerical algorithm to determine straightness error, surface roughness, and waviness measured using a fiber optic interferometer. <i>Optics and Laser Technology</i> , 2016, 85, 19-29.	4.6	9
18	An Iterative Solution Approach to Coupled Heat and Mass Transfer in a Steadily Fed Evaporating Water Droplet. <i>Journal of Heat Transfer</i> , 2019, 141, .	2.1	9

#	ARTICLE	IF	CITATIONS
19	Capillary boosting for enhanced heat pipe performance through bifurcation of grooves: Numerical assessment and experimental validation. <i>International Communications in Heat and Mass Transfer</i> , 2022, 137, 106162.	5.6	9
20	Solidification of a Finite Medium Subject to a Periodic Variation of Boundary Temperature. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2003, 70, 633-637.	2.2	8
21	Interplay of transport mechanisms during the evaporation of a pinned sessile water droplet. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	7
22	Heat transfer effects on the stability of low speed plane Couette-Poiseuille flow. <i>Heat and Mass Transfer</i> , 2007, 43, 1317-1328.	2.1	6
23	Limitations of Matching Condensing Film Profile on a Micro Fin with the Groove: Critical Effect of Disjoining Pressure. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2019, 23, 289-303.	2.6	4
24	Modeling of Evaporation From a Sessile Constant Shape Droplet. , 2017, , .		3
25	On the effect of structural forces on a condensing film profile near a fin-groove corner. <i>International Communications in Heat and Mass Transfer</i> , 2020, 116, 104686.	5.6	3
26	HIZLI VE Ã–NGÃ–RÃœ ISI BORUSU TASARIM VE ANALÄ°Z ARACI: H-PAT. <i>Isi Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology</i> , 2022, 42, 141-156.	0.6	3
27	Numerical solution of solidification in a square prism using an algebraic grid generation technique. <i>Heat and Mass Transfer</i> , 2003, 40, 91-97.	2.1	2
28	Accuracy of the two-iteration spectral method for phase change problems. <i>Applied Mathematical Modelling</i> , 2006, 30, 1515-1524.	4.2	2
29	Three-dimensional grain design optimization of solid rocket motors. , 2015, , .		2
30	Experimental Investigation of Oil Accumulation in Second Land of Internal Combustion Engines. <i>Journal of Engineering for Gas Turbines and Power</i> , 2005, 127, 206-212.	1.1	1
31	The effect of surface morphology on the rate of phase change of micron and sub-micron sized 2-D droplets. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2020, 24, 184-200.	2.6	0
32	Development of an Interferometric Technique to be Used in Measuring Micron Level Clearances Filled With a Lubricant. , 2009, , .		0
33	An Interferometric Technique for Measuring Micron Level Clearances Filled With a Lubricant. , 2010, , .		0
34	Modeling the Evaporation of Drying Sessile Droplets with Buoyancy Driven Internal Convection. <i>E3S Web of Conferences</i> , 2021, 321, 04013.	0.5	0
35	Performance of a flat grooved heat pipe with a localized heat load. <i>E3S Web of Conferences</i> , 2021, 321, 04010.	0.5	0