

Khalil Khanafer

List of Publications by Year in descending order

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73
papers

6,543
citations

136740

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h-index

91712

69
g-index

73
all docs

73
docs citations

73
times ranked

4810
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat up impact on thermal stresses in SOFC for mobile APU applications: Thermo-structural analysis. Sustainable Energy Technologies and Assessments, 2022, 52, 102159.	1.7	1
2	Analysis of turbulent two-phase flow and heat transfer using nanofluid. International Communications in Heat and Mass Transfer, 2021, 124, 105219.	2.9	13
3	Effect of a circular cylinder and flexible wall on natural convective heat transfer characteristics in a cavity filled with a porous medium. Applied Thermal Engineering, 2020, 181, 115989.	3.0	16
4	Advancing Front Oxygen Transfer Model for the Design of Microchannel Artificial Lungs. ASAIO Journal, 2020, 66, 1054-1062.	0.9	5
5	Numerical study of flow and heat transfer of minimum quantity lubrication based nanofluid in a turning process using Inconel alloy. International Journal of Advanced Manufacturing Technology, 2020, 108, 475-483.	1.5	13
6	Correlation between MMP and TIMP levels and elastic moduli of ascending thoracic aortic aneurysms. Cardiovascular Revascularization Medicine, 2019, 20, 324-327.	0.3	11
7	3D multiphysics modeling aided APU development for vehicle applications: A thermo-structural investigation. International Journal of Hydrogen Energy, 2019, 44, 12094-12107.	3.8	6
8	Numerical and experimental analysis of turbulent flow and heat transfer of minimum quantity lubrication in a turning process using discrete phase model. International Communications in Heat and Mass Transfer, 2019, 104, 23-32.	2.9	18
9	Natural convection heat transfer utilizing nanofluid in a cavity with a periodic side-wall temperature in the presence of a magnetic field. International Communications in Heat and Mass Transfer, 2019, 104, 127-135.	2.9	36
10	Mixed convection heat transfer in a differentially heated cavity with two rotating cylinders. International Journal of Thermal Sciences, 2019, 135, 117-132.	2.6	60
11	A review on the applications of nanofluids in solar energy field. Renewable Energy, 2018, 123, 398-406.	4.3	283
12	Analysis of heat transfer and flow characteristics of a microcantilever beam for piezoelectric energy harvesting. International Communications in Heat and Mass Transfer, 2018, 98, 265-272.	2.9	3
13	Flow and Heat Transfer in a Driven Cavity with Two Cylinders. Journal of Thermophysics and Heat Transfer, 2017, 31, 99-108.	0.9	4
14	Unsteady conjugate natural convection in a porous cavity boarded by two vertical finite thickness walls. International Communications in Heat and Mass Transfer, 2017, 81, 218-228.	2.9	22
15	Experimental Analysis of an Improved Solar Still System with Cooling Fan and Preheating Oil. Energy Engineering: Journal of the Association of Energy Engineers, 2017, 114, 55-71.	0.3	10
16	Mixed convection heat transfer in a lid-driven cavity with a rotating circular cylinder. International Communications in Heat and Mass Transfer, 2017, 86, 131-142.	2.9	71
17	Analysis of the anomalies in graphene thermal properties. International Journal of Heat and Mass Transfer, 2017, 104, 328-336.	2.5	19
18	A Critical Synthesis of Graphene Thermal Properties and Its Applications. Advances in Heat Transfer, 2016, 48, 95-124.	0.4	5

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19	Fluid-structure interaction analysis of flow and heat transfer characteristics around a flexible microcantilever in a fluidic cell. <i>International Communications in Heat and Mass Transfer</i> , 2016, 75, 315-322.	2.9	18
20	The effect of the position of the heated thin porous fin on the laminar natural convection heat transfer in a differentially heated cavity. <i>International Communications in Heat and Mass Transfer</i> , 2016, 78, 190-199.	2.9	35
21	Organization of Endothelial Cells, Pericytes, and Astrocytes into a 3D Microfluidic <i>in Vitro</i> Model of the Blood-Brain Barrier. <i>Molecular Pharmaceutics</i> , 2016, 13, 895-906.	2.3	123
22	Numerical analysis of the incineration of polychlorinated biphenyl wastes in rotary kilns. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 624-632.	3.3	13
23	Techno-economical simulation and study of a novel MSF desalination process. <i>Desalination</i> , 2016, 386, 1-12.	4.0	24
24	Experimental and Clinical Evidence Supporting Septectomy in the Primary Treatment of Acute Type B Thoracic Aortic Dissection. <i>Annals of Vascular Surgery</i> , 2015, 29, 167-173.	0.4	23
25	Laminar natural convection heat transfer in a differentially heated cavity with a thin porous fin attached to the hot wall. <i>International Journal of Heat and Mass Transfer</i> , 2015, 87, 59-70.	2.5	55
26	A critical investigation of the anomalous behavior of molten salt-based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2015, 69, 51-58.	2.9	28
27	Fluid-Structure Interactions in a Tissue during Hyperthermia. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014, 66, 1-16.	1.2	27
28	Comparison of flow and heat transfer characteristics in a lid-driven cavity between flexible and modified geometry of a heated bottom wall. <i>International Journal of Heat and Mass Transfer</i> , 2014, 78, 1032-1041.	2.5	58
29	Sources of error in the measurement of aortic diameter in computed tomography scans. <i>Journal of Vascular Surgery</i> , 2014, 59, 74-79.	0.6	29
30	Response to "Re. How Should We Measure and Report Elasticity of Aortic Tissue?". <i>European Journal of Vascular and Endovascular Surgery</i> , 2014, 47, 111.	0.8	0
31	Laminar mixed convection flow and heat transfer characteristics in a lid driven cavity with a circular cylinder. <i>International Journal of Heat and Mass Transfer</i> , 2013, 66, 200-209.	2.5	133
32	How Should We Measure and Report Elasticity in Aortic Tissue?. <i>European Journal of Vascular and Endovascular Surgery</i> , 2013, 45, 332-339.	0.8	38
33	Applications of Nanomaterials in Solar Energy and Desalination Sectors. <i>Advances in Heat Transfer</i> , 2013, 45, 303-329.	0.4	8
34	Experimental Foundation for <i>In Vivo</i> Measurement of the Elasticity of the Aorta in Computed Tomography Angiography. <i>European Journal of Vascular and Endovascular Surgery</i> , 2013, 46, 447-452.	0.8	13
35	Erratum to "Experimental Foundation for <i>In Vivo</i> Measurement of the Elasticity of the Aorta in Computed Tomography Angiography" [<i>Eur J Vasc Endovasc Surg</i> 46 (2013) 447-452]. <i>European Journal of Vascular and Endovascular Surgery</i> , 2013, 46, 733.	0.8	0
36	Fluid-structure interaction analysis of non-Darcian effects on natural convection in a porous enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2013, 58, 382-394.	2.5	31

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37	THE ROLE OF POROUS MEDIA IN MODELING FLUID FLOW WITHIN HOLLOW FIBER MEMBRANES OF THE TOTAL ARTIFICIAL LUNG. <i>Journal of Porous Media</i> , 2012, 15, 113-122.	1.0	23
38	Determination of the elastic modulus of ascending thoracic aortic aneurysm at different ranges of pressure using uniaxial tensile testing. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2011, 142, 682-686.	0.4	79
39	Fluid-dynamic and NO _x computation in swirl burners. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 5030-5038.	2.5	43
40	A critical synthesis of thermophysical characteristics of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 4410-4428.	2.5	917
41	Fluid-structure interaction analysis of mixed convection heat transfer in a lid-driven cavity with a flexible bottom wall. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 3826-3836.	2.5	89
42	Non-Darcian Effects on Buoyancy-Induced Heat Transfer in a Partially Divided Square Enclosure with Internal Heat Generation. <i>Transport in Porous Media</i> , 2010, 84, 663-683.	1.2	1
43	In Vitro Characterisation of Physiological and Maximum Elastic Modulus of Ascending Thoracic Aortic Aneurysms Using Uniaxial Tensile Testing. <i>European Journal of Vascular and Endovascular Surgery</i> , 2010, 39, 700-707.	0.8	128
44	Fluid-structure interaction analysis of flow and heat transfer characteristics around a flexible microcantilever in a fluidic cell. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 1646-1653.	2.5	32
45	Quantitative evaluation of the effect of poly(amidoamine) dendrimers on the porosity of epithelial monolayers. <i>Nanoscale</i> , 2010, 2, 755.	2.8	17
46	Non-Darcian effects on natural convection heat transfer in a wavy porous enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 1887-1896.	2.5	76
47	Fluid-structure interaction analysis of turbulent pulsatile flow within a layered aortic wall as related to aortic dissection. <i>Journal of Biomechanics</i> , 2009, 42, 2642-2648.	0.9	88
48	Effects of strain rate, mixing ratio, and stress-strain definition on the mechanical behavior of the polydimethylsiloxane (PDMS) material as related to its biological applications. <i>Biomedical Microdevices</i> , 2009, 11, 503-508.	1.4	228
49	Buoyancy-induced flow and heat transfer in a partially divided square enclosure. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 3818-3828.	2.5	52
50	Steady-state conjugate natural convection in a fluid-saturated porous cavity. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 4260-4275.	2.5	44
51	Numerical analysis of natural convection heat transfer in a horizontal annulus partially filled with a fluid-saturated porous substrate. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 1613-1627.	2.5	49
52	Mixed convection analysis of laminar pulsating flow and heat transfer over a backward-facing step. <i>International Journal of Heat and Mass Transfer</i> , 2008, 51, 5785-5793.	2.5	68
53	Tear size and location impacts false lumen pressure in an ex vivo model of chronic type B aortic dissection. <i>Journal of Vascular Surgery</i> , 2008, 47, 844-851.	0.6	174
54	Non-Darcian Effects on the Mixed Convection Heat Transfer in a Metallic Porous Block with a Confined Slot Jet. <i>Numerical Heat Transfer; Part A: Applications</i> , 2008, 54, 665-685.	1.2	30

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55	Numerical Modeling of Coil Compaction in the Treatment of Cerebral Aneurysms using Porous Media Theory. <i>FASEB Journal</i> , 2008, 22, 1207.7.	0.2	0
56	Combined Forced- and Natural-Convection Heat Transfer in Horizontally CounterRotating Eccentric and Concentric Cylinders. <i>Numerical Heat Transfer; Part A: Applications</i> , 2007, 51, 1167-1186.	1.2	12
57	Effect of sinusoidal wavy bottom surface on mixed convection heat transfer in a lid-driven cavity. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 1771-1780.	2.5	127
58	Influence of pulsatile blood flow and heating scheme on the temperature distribution during hyperthermia treatment. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 4883-4890.	2.5	57
59	Refinements in Mathematical Models to Predict Aneurysm Growth and Rupture. <i>Annals of the New York Academy of Sciences</i> , 2006, 1085, 110-116.	1.8	29
60	Unsteady numerical simulation of double diffusive convection heat transfer in a pulsating horizontal heating annulus. <i>Heat and Mass Transfer</i> , 2006, 42, 1007-1015.	1.2	7
61	The role of porous media in biomedical engineering as related to magnetic resonance imaging and drug delivery. <i>Heat and Mass Transfer</i> , 2006, 42, 939-953.	1.2	126
62	Geometrical and flow configurations for enhanced microcantilever detection within a fluidic cell. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 2886-2895.	2.5	13
63	Spatial optimization of an array of aligned microcantilever based sensors. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 1328-1336.	1.5	15
64	Buoyancy-driven heat transfer enhancement in a two-dimensional enclosure utilizing nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2003, 46, 3639-3653.	2.5	2,440
65	Water diffusion in biomedical systems as related to magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2003, 21, 17-31.	1.0	19
66	Computational modeling of cerebral diffusion-application to stroke imaging. <i>Magnetic Resonance Imaging</i> , 2003, 21, 651-661.	1.0	24
67	Mixed convection within a porous heat generating horizontal annulus. <i>International Journal of Heat and Mass Transfer</i> , 2003, 46, 1725-1735.	2.5	43
68	Effects of thin metal outer case and top air gap on thermal IR images of buried antitank and antipersonnel land mines. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003, 41, 123-135.	2.7	21
69	Thermal analysis of buried land mines over a diurnal cycle. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2002, 40, 461-473.	2.7	35
70	Effective boundary conditions for buoyancy-driven flows and heat transfer in fully open-ended two-dimensional enclosures. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 2527-2538.	2.5	50
71	Mixed convection heat transfer in two-dimensional open-ended enclosures. <i>International Journal of Heat and Mass Transfer</i> , 2002, 45, 5171-5190.	2.5	63
72	Isothermal surface production and regulation for high heat flux applications utilizing porous inserts. <i>International Journal of Heat and Mass Transfer</i> , 2001, 44, 2933-2947.	2.5	27

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73	Buoyancy-driven flow and heat transfer in open-ended enclosures: elimination of the extended boundaries. <i>International Journal of Heat and Mass Transfer</i> , 2000, 43, 4087-4100.	2.5	45