

Kambiz Vafai

List of Publications by Year in descending order

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247
papers

15,134
citations

25034

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21540

114
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249
all docs

249
docs citations

249
times ranked

6594
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study of boiling heat transfer for a novel type of GNP-Fe ₃ O ₄ hybrid nanofluids blended with different nanoparticles. Powder Technology, 2022, 396, 92-112.	4.2	24
2	Heat transfer and fluid flow analysis of microchannel heat sinks with periodic vertical porous ribs. Applied Thermal Engineering, 2022, 205, 118059.	6.0	35
3	Amelioration of pool boiling thermal performance utilizing graphene-silver hybrid nanofluids. Powder Technology, 2022, 397, 117110.	4.2	25
4	Thermal, thermodynamic and exergoeconomic investigation of a parabolic trough collector utilizing nanofluids. Applied Thermal Engineering, 2022, 206, 118117.	6.0	35
5	Optimization of the Thermal Performance of Three-Dimensional Integrated Circuits Utilizing Rectangular-Shaped and Disk-Shaped Heat Pipes. Journal of Heat Transfer, 2022, 144, .	2.1	10
6	A robust single-phase approach for the numerical simulation of heat pipe. International Communications in Heat and Mass Transfer, 2022, 132, 105894.	5.6	9
7	Thermal and hydraulic performance of rectangular microchannel heat sinks with trapezoidal porous configuration. Numerical Heat Transfer; Part A: Applications, 2022, 81, 72-93.	2.1	10
8	Thermal analysis of fused deposition modeling process based finite element method: Simulation and parametric study. Numerical Heat Transfer; Part A: Applications, 2022, 81, 94-118.	2.1	7
9	Application of Porous-Embedded shell and tube heat exchangers for the Waste heat Recovery Systems. Applied Thermal Engineering, 2022, 211, 118452.	6.0	12
10	Heat up impact on thermal stresses in SOFC for mobile APU applications: Thermo-structural analysis. Sustainable Energy Technologies and Assessments, 2022, 52, 102159.	2.7	1
11	Computational biomedical simulations of hybrid nanoparticles ($\langle m \rangle$) Tj ETQq1 1 0 784314 rgBT /Overlock 10 Tf 50 362 Td (xmln	2.6	29
12	Phase-change materials for thermal management of electronic devices. Applied Thermal Engineering, 2022, 214, 118839.	6.0	45
13	Thermal management of transverse magnetic source effects on nanofluid natural convection in a wavy porous enclosure. Journal of Thermal Analysis and Calorimetry, 2021, 143, 2851-2865.	3.6	30
14	Analysis of hotspots and cooling strategy for multilayer three-dimensional integrated circuits. Applied Thermal Engineering, 2021, 186, 116336.	6.0	31
15	Analysis of the optimum configuration for the capillary rise and the permeability of the fiber wick structure for heat removal in heat pipes. Heat and Mass Transfer, 2021, 57, 1513-1526.	2.1	4
16	Flow and heat transfer characteristics of non-Newtonian fluid over an oscillating flat plate. Numerical Heat Transfer; Part A: Applications, 2021, 79, 721-733.	2.1	1
17	A mesoscopic model for thermalâ€“solutal problems of power-law fluids through porous media. Physics of Fluids, 2021, 33, .	4.0	22
18	Synthesis of Flow and Thermal Transport in Porous Media as Applied to Biological Applications. Journal of Heat Transfer, 2021, 143, .	2.1	8

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19	Analysis of turbulent two-phase flow and heat transfer using nanofluid. International Communications in Heat and Mass Transfer, 2021, 124, 105219.	5.6	13
20	Transient performance of a solar humidification–dehumidification desalination system based on hollow fiber membrane. Journal of Computational Design and Engineering, 2021, 8, 923-934.	3.1	4
21	Flow and heat transfer characteristics of non-Newtonian fluid over an oscillating flat plate. Numerical Heat Transfer; Part A: Applications, 2021, 80, 154-167.	2.1	0
22	Geometrical optimization of boron arsenide inserts embedded in a heat spreader to improve its cooling performance for three dimensional integrated circuits. Numerical Heat Transfer; Part A: Applications, 2021, 80, 389-410.	2.1	6
23	Transport and dynamic analysis of magnetic nanoparticles in brain microvascular vessels. Physics of Fluids, 2021, 33, 081907.	4.0	10
24	Design and Optimization of a Composite Heat Spreader to Improve the Thermal Management of a Three-Dimensional Integrated Circuit. Journal of Heat Transfer, 2021, 143, .	2.1	8
25	Amelioration of boiling heat transfer by 3D deposition structure of graphene-silver hybrid nanoparticle. Energy Conversion and Management: X, 2021, 12, 100109.	1.6	2
26	Numerical simulation of flattened heat pipe with double heat sources for CPU and GPU cooling application in laptop computers. Journal of Computational Design and Engineering, 2021, 8, 524-535.	3.1	5
27	The porous media theory applied to radiofrequency catheter ablation. International Journal of Numerical Methods for Heat and Fluid Flow, 2020, 30, 2669-2681.	2.8	22
28	Heat removal enhancement in a channel with a single or an array of metallic foam obstacles. International Journal of Thermal Sciences, 2020, 149, 106057.	4.9	12
29	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.	6.0	16
30	Application of porous metal foam heat exchangers and the implications of particulate fouling for energy-intensive industries. Chemical Engineering Science, 2020, 228, 115968.	3.8	47
31	Analysis of particle deposition of nanofluid flow through porous media. International Journal of Heat and Mass Transfer, 2020, 161, 120227.	4.8	33
32	Thermal effect and optimal design of cooling pipes on mass concrete with constant quantity of water flow. Numerical Heat Transfer; Part A: Applications, 2020, 78, 619-635.	2.1	2
33	Thermal tissue damage analysis for magnetothermal neuromodulation and lesion size minimization. Brain Multiphysics, 2020, 1, 100014.	2.3	11
34	Thermal stimulation of targeted neural circuits via remotely controlled nano-transducers: A therapy for neurodegenerative disorders. Advances in Heat Transfer, 2020, , 543-581.	0.9	5
35	Nanofluid buoyancy-driven heat transfer in three-dimensional horizontal annuli. European Journal of Mechanics, B/Fluids, 2020, 82, 66-82.	2.5	9
36	Experimental characterization on pore parameter and the irradiation absorption efficiency of a series SiC foam specimens. Energy Conversion and Management, 2020, 212, 112795.	9.2	15

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37	Thermal performance analysis of phase change materials (PCMs) embedded in gradient porous metal foams. <i>Applied Thermal Engineering</i> , 2020, 179, 115731.	6.0	91
38	Applications of nanofluids in porous medium. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 1479-1492.	3.6	118
39	Electromagnetic flow for two-layer immiscible fluids. <i>Engineering Science and Technology, an International Journal</i> , 2019, 22, 237-248.	3.2	43
40	Correlation between MMP and TIMP levels and elastic moduli of ascending thoracic aortic aneurysms. <i>Cardiovascular Revascularization Medicine</i> , 2019, 20, 324-327.	0.8	11
41	External and internal cloud condensation nuclei (CCN) mixtures: controlled laboratory studies of varying mixing states. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 4277-4289.	3.1	17
42	A study of gravitational and magnetic effects on coupled stress bi-phase liquid suspended with crystal and Hafnium particles down in steep channel. <i>Journal of Molecular Liquids</i> , 2019, 286, 110898.	4.9	44
43	Analytical considerations of flow/thermal coupling of nanofluids in foam metals with local thermal non-equilibrium (LTNE) phenomena and inhomogeneous nanoparticle distribution. <i>International Journal of Heat and Fluid Flow</i> , 2019, 77, 242-255.	2.4	60
44	Nanofluids transport through a novel concave/convex convergent pipe. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019, 75, 91-109.	2.1	14
45	Mixed convection heat transfer in a differentially heated cavity with two rotating cylinders. <i>International Journal of Thermal Sciences</i> , 2019, 135, 117-132.	4.9	60
46	Microchannel thermal performance optimization utilizing porous layer configurations. <i>International Journal of Heat and Mass Transfer</i> , 2019, 133, 62-72.	4.8	23
47	Analysis of porous filled heat exchangers for electronic cooling. <i>International Journal of Heat and Mass Transfer</i> , 2019, 133, 268-276.	4.8	30
48	Thermal and Hydraulic Performance Analysis of a Convergent Double Pipe Heat Exchanger. <i>Journal of Heat Transfer</i> , 2019, 141, .	2.1	15
49	Numerical Investigation of Two-Phase Flow Over Unglazed Plate Collector Covered With Porous Material of Wire Screen for Solar Water Heater Application. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2019, 141, .	1.8	9
50	Effect of porous substrates on thermohydraulic performance enhancement of double layer microchannel heat sinks. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 52-63.	4.8	67
51	HYPO- AND HYPERTHERMIA EFFECTS ON LDL DEPOSITION IN A CURVED ARTERY. <i>Computational Thermal Sciences</i> , 2019, 11, 95-103.	0.9	24
52	Thermal and hydraulic performance enhancement of microchannel heat sinks utilizing porous substrates. <i>International Journal of Heat and Mass Transfer</i> , 2018, 122, 1313-1326.	4.8	111
53	A review on the applications of nanofluids in solar energy field. <i>Renewable Energy</i> , 2018, 123, 398-406.	8.9	283
54	Study of Fe ₃ O ₄ -water nanofluid with convective heat transfer in the presence of magnetic source. <i>AEJ - Alexandria Engineering Journal</i> , 2018, 57, 565-575.	6.4	55

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55	Impact of induced magnetic field on synovial fluid with peristaltic flow in an asymmetric channel. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 446, 54-67.	2.3	36
56	Analysis of double slip model for a partially filled porous microchannel—An exact solution. <i>European Journal of Mechanics, B/Fluids</i> , 2018, 68, 1-9.	2.5	24
57	Boundary layer considerations in a multi-layer model for LDL accumulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018, 21, 803-811.	1.6	13
58	Analysis of heat transfer and flow characteristics of a microcantilever beam for piezoelectric energy harvesting. <i>International Communications in Heat and Mass Transfer</i> , 2018, 98, 265-272.	5.6	3
59	Modelling study on heated couple stress fluid peristaltically conveying gold nanoparticles through coaxial tubes: A remedy for gland tumors and arthritis. <i>Journal of Molecular Liquids</i> , 2018, 268, 149-155.	4.9	60
60	Combined effects of magnetic field and rheological properties on the peristaltic flow of a compressible fluid in a microfluidic channel. <i>European Journal of Mechanics, B/Fluids</i> , 2017, 65, 398-411.	2.5	63
61	Forced Convection in a Bidisperse Porous Medium Embedded in a Circular Pipe. <i>Journal of Heat Transfer</i> , 2017, 139, .	2.1	16
62	Interaction between compressibility and particulate suspension on peristaltically driven flow in planar channel. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2017, 38, 137-154.	3.6	58
63	Analysis of single phase, discrete and mixture models, in predicting nanofluid transport. <i>International Journal of Heat and Mass Transfer</i> , 2017, 114, 225-237.	4.8	125
64	Mass transfer performance of the LiCl solution dehumidification process. <i>International Communications in Heat and Mass Transfer</i> , 2017, 85, 139-146.	5.6	10
65	Investigation of the momentum transfer conditions at the porous/free fluid interface: A benchmark solution. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 71, 609-625.	2.1	10
66	Analytical study of flow and heat transfer in an annular porous medium subject to asymmetrical heat fluxes. <i>Heat and Mass Transfer</i> , 2017, 53, 2663-2676.	2.1	28
67	On boundary layer nano-ferroliquid flow under the influence of low oscillating stretchable rotating disk. <i>Journal of Molecular Liquids</i> , 2017, 229, 339-345.	4.9	196
68	Heat transfer augmentation through convergence angles in a pipe. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 72, 197-214.	2.1	32
69	Electromagnetic field-induced thermal management of biological materials. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 72, 275-290.	2.1	4
70	Analysis of non-Newtonian effects within an aorta-iliac bifurcation region. <i>Journal of Biomechanics</i> , 2017, 64, 153-163.	2.1	31
71	Investigation of the Blockage Conditions in a Laminated—Sheet Microchannel Reactor. <i>Chemical Engineering and Technology</i> , 2017, 40, 2283-2294.	1.5	15
72	An investigation of thermal characteristics of eutectic molten salt-based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2017, 87, 98-104.	5.6	36

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73	Analysis of particle-laden fluid flows, tortuosity and particle-fluid behaviour in metal foam heat exchangers. <i>Chemical Engineering Science</i> , 2017, 172, 677-687.	3.8	27
74	Velocity Uniformity of Microchannels in a Laminated Sheet Structure Under Parallel and Series Methods. <i>Chemical Engineering and Technology</i> , 2017, 40, 1774-1783.	1.5	8
75	Modeling and simulation of ray tracing for compound parabolic thermal solar collector. <i>International Communications in Heat and Mass Transfer</i> , 2017, 87, 169-174.	5.6	31
76	Numerical investigation and sensitivity analysis of effective parameters on combined heat transfer performance in a porous solar cavity receiver by response surface methodology. <i>International Journal of Heat and Mass Transfer</i> , 2017, 105, 811-825.	4.8	99
77	An investigation of thermal performance improvement of a cylindrical heat pipe using Al ₂ O ₃ nanofluid. <i>Heat and Mass Transfer</i> , 2017, 53, 973-983.	2.1	32
78	Analysis of the anomalies in graphene thermal properties. <i>International Journal of Heat and Mass Transfer</i> , 2017, 104, 328-336.	4.8	19
79	Effect of nanoparticles on condensation of humid air in vertical channels. <i>International Journal of Thermal Sciences</i> , 2017, 112, 470-483.	4.9	5
80	Particulate suspension effect on peristaltically induced unsteady pulsatile flow in a narrow artery: Blood flow model. <i>Mathematical Biosciences</i> , 2017, 283, 91-105.	1.9	59
81	Analysis of nanofluid transport through a wavy channel. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 72, 869-890.	2.1	34
82	PREFACE: SPECIAL ISSUE OF FLOW AND MULTIPHYSICAL TRANSPORT IN POROUS MEDIA. <i>Special Topics and Reviews in Porous Media</i> , 2017, 8, v-vi.	1.1	0
83	A Critical Synthesis of Graphene Thermal Properties and Its Applications. <i>Advances in Heat Transfer</i> , 2016, 48, 95-124.	0.9	5
84	Preface: Special Issue of Multiphase Flows in Porous Media. <i>Special Topics and Reviews in Porous Media</i> , 2016, 7, v-vi.	1.1	0
85	Analytical characterization of gaseous slip flow and heat transport through a parallel-plate microchannel with a centered porous substrate. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016, 26, 854-878.	2.8	30
86	Thermophysical and Geometrical Effects on the Thermal Performance and Optimization of a Three-Dimensional Integrated Circuit. <i>Journal of Heat Transfer</i> , 2016, 138, .	2.1	16
87	Analysis of non-Newtonian effects on Low-Density Lipoprotein accumulation in an artery. <i>Journal of Biomechanics</i> , 2016, 49, 1437-1446.	2.1	42
88	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.	5.6	18
89	A comparative analysis of innovative microchannel heat sinks for electronic cooling. <i>International Communications in Heat and Mass Transfer</i> , 2016, 76, 271-284.	5.6	81
90	A comparative study of refined and simplified thermo-viscoplastic modeling of a thrust chamber with regenerative cooling. <i>International Communications in Heat and Mass Transfer</i> , 2016, 78, 155-162.	5.6	12

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91	Analysis of the volumetric phenomenon in porous beds subject to irradiation. Numerical Heat Transfer; Part A: Applications, 2016, 70, 567-580.	2.1	17
92	Convective heat transfer of nanofluid in a wavy channel: Buongiorno's mathematical model. Journal of Molecular Liquids, 2016, 222, 446-455.	4.9	184
93	Learning-based occupancy behavior detection for smart buildings. , 2016, , .		5
94	Analysis of two approaches for an adiabatic boundary condition in porous media. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 977-998.	2.8	9
95	Peristaltic Flow of Couple Stress Fluid in a Non-Uniform Rectangular Duct Having Compliant Walls. Communications in Theoretical Physics, 2016, 65, 66-72.	2.5	54
96	Low-density lipoprotein transport through an arterial wall under hyperthermia and hypertension conditions – An analytical solution. Journal of Biomechanics, 2016, 49, 193-204.	2.1	42
97	Analysis of critical thermal issues in 3D integrated circuits. International Journal of Heat and Mass Transfer, 2016, 97, 337-352.	4.8	64
98	Validation of a computational model versus a bench top model of an aortic dissection model. Journal of Biomedical Engineering and Informatics, 2015, 2, 82.	0.2	4
99	PREFACE: HEAT AND MASS TRANSFER IN POROUS MEDIA. Journal of Porous Media, 2015, 18, v-vi.	1.9	0
100	PREFACE: HEAT AND MASS TRANSFER IN POROUS MEDIA. Journal of Porous Media, 2015, 18, v-vi.	1.9	1
101	PREFACE: TRANSFERS IN POROUS MEDIA. Special Topics and Reviews in Porous Media, 2015, 6, v-vi.	1.1	0
102	The Study of Peristaltic Motion of Third Grade Fluid under the Effects of Hall Current and Heat Transfer. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2015, 70, 281-293.	1.5	24
103	Analysis of Low Density Lipoprotein (LDL) Transport Within a Curved Artery. Annals of Biomedical Engineering, 2015, 43, 1571-1584.	2.5	33
104	Analysis of Natural Convection in Horizontal Concentric Annuli of Varying Inner Shape. Numerical Heat Transfer; Part A: Applications, 2015, 68, 1155-1174.	2.1	35
105	Forced convection gaseous slip flow in a porous circular microtube: An exact solution. International Journal of Thermal Sciences, 2015, 97, 152-162.	4.9	22
106	Analysis and Characterization of Metal Foam-Filled Double-Pipe Heat Exchangers. Numerical Heat Transfer; Part A: Applications, 2015, 68, 1031-1049.	2.1	44
107	Analysis of gaseous slip flow in a porous micro-annulus under local thermal non-equilibrium condition – An exact solution. International Journal of Heat and Mass Transfer, 2015, 89, 1331-1341.	4.8	27
108	Professor Issam Mudawar on his 60th birthday. International Journal of Heat and Mass Transfer, 2015, 89, A1-A3.	4.8	0

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109	Analysis and analytical characterization of bioheat transfer during radiofrequency ablation. Journal of Biomechanics, 2015, 48, 930-940.	2.1	49
110	Thermal effects on transport in the resting mammary glands. International Journal of Heat and Mass Transfer, 2015, 85, 987-995.	4.8	3
111	The Blood Flow of Prandtl Fluid Through a Tapered Stenosed Arteries in Permeable Walls with Magnetic Field. Communications in Theoretical Physics, 2015, 63, 353-358.	2.5	71
112	A critical investigation of the anomalous behavior of molten salt-based nanofluids. International Communications in Heat and Mass Transfer, 2015, 69, 51-58.	5.6	28
113	Effects of External and Internal Hyperthermia on LDL Transport and Accumulation Within an Arterial Wall in the Presence of a Stenosis. Annals of Biomedical Engineering, 2015, 43, 1585-1599.	2.5	44
114	Analysis of collimated irradiation under local thermal non-equilibrium condition in a packed bed. International Journal of Heat and Mass Transfer, 2015, 80, 789-801.	4.8	30
115	Heat transfer characteristics and CHF prediction in nanofluid boiling. International Journal of Heat and Mass Transfer, 2015, 80, 256-265.	4.8	36
116	Modeling and analysis of transport in the mammary glands. Physical Biology, 2014, 11, 045004.	1.8	10
117	A study on the mixed convection boundary layer flow and heat transfer over a vertical slender cylinder. Thermal Science, 2014, 18, 1247-1258.	1.1	22
118	A Mathematical Study of Non-Newtonian Micropolar Fluid in Arterial Blood Flow Through Composite Stenosis. Applied Mathematics and Information Sciences, 2014, 8, 1567-1573.	0.5	67
119	Mechanobiology of low-density lipoprotein transport within an arterial wall—Impact of hyperthermia and coupling effects. Journal of Biomechanics, 2014, 47, 137-147.	2.1	41
120	Fluid-Structure Interactions in a Tissue during Hyperthermia. Numerical Heat Transfer; Part A: Applications, 2014, 66, 1-16.	2.1	27
121	Two-phase CO ₂ migration in tilted aquifers in the presence of groundwater flow. International Journal of Heat and Mass Transfer, 2014, 77, 717-729.	4.8	6
122	Optimal Positioning of Strips for Heat Transfer Reduction within an Enclosure. Numerical Heat Transfer; Part A: Applications, 2014, 66, 17-40.	2.1	16
123	Investigation of Heat Transfer Enhancement in a Forward-Facing Contracting Channel Using FMWCNT Nanofluids. Numerical Heat Transfer; Part A: Applications, 2014, 66, 1321-1340.	2.1	220
124	Analysis of Radiative Effect under Local Thermal Non-Equilibrium Conditions in Porous Media—Application to a Solar Air Receiver. Numerical Heat Transfer; Part A: Applications, 2014, 65, 931-948.	2.1	38
125	Investigation of pollutant reduction by simulation of turbulent non-premixed pulverized coal combustion. Applied Thermal Engineering, 2014, 73, 1222-1235.	6.0	65
126	Heat transfer enhancement by layering of two immiscible co-flows. International Journal of Heat and Mass Transfer, 2014, 68, 299-309.	4.8	18

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127	Effects of heat and mass transfer on peristaltic flow in a non-uniform rectangular duct. International Journal of Heat and Mass Transfer, 2014, 71, 706-719.	4.8	144
128	Heat Transfer in Nanofluids 2013. Advances in Mechanical Engineering, 2014, 6, 832415.	1.6	3
129	Electromagnetic field effects on biological materials. International Journal of Heat and Mass Transfer, 2013, 65, 389-399.	4.8	43
130	Analysis of the effect of stent emplacement on LDL transport within an artery. International Journal of Heat and Mass Transfer, 2013, 64, 1031-1040.	4.8	19
131	Analysis of thermally developing flow in porous media under local thermal non-equilibrium conditions. International Journal of Heat and Mass Transfer, 2013, 67, 768-775.	4.8	58
132	Applications of Nanomaterials in Solar Energy and Desalination Sectors. Advances in Heat Transfer, 2013, 45, 303-329.	0.9	8
133	A Note on Local Thermal Non-equilibrium in Porous Media and Heat Flux Bifurcation Phenomenon in Porous Media. Transport in Porous Media, 2013, 96, 169-172.	2.6	30
134	Analysis of the multidimensional effects in biofilms. International Journal of Heat and Mass Transfer, 2013, 56, 340-349.	4.8	6
135	Low-density lipoprotein transport within a multi-layered arterial wall—Effect of the atherosclerotic plaque/stenosis. Journal of Biomechanics, 2013, 46, 574-585.	2.1	43
136	Analysis of Detection Enhancement Using Microcantilevers with Long-Slit-Based Sensors. Sensors, 2013, 13, 681-702.	3.8	3
137	Preface: Porous Media and Its Applications in Science, Engineering, and Industry. , 2012, , .		1
138	Analysis of biofilm growth in the presence of osmotic pressure and temperature effects. International Journal of Heat and Mass Transfer, 2012, 55, 5709-5721.	4.8	6
139	Effect of the fluid—structure interactions on low-density lipoprotein transport within a multi-layered arterial wall. Journal of Biomechanics, 2012, 45, 371-381.	2.1	55
140	Effects of pressure on arterial failure. Journal of Biomechanics, 2012, 45, 2577-2588.	2.1	24
141	Thermal performance and operational attributes of the startup characteristics of flat-shaped heat pipes using nanofluids. International Journal of Heat and Mass Transfer, 2012, 55, 140-155.	4.8	81
142	Electromagnetic field effects on transport through porous media. International Journal of Heat and Mass Transfer, 2012, 55, 325-335.	4.8	24
143	Series solutions of non-Newtonian nanofluids with Reynolds's model and Vogel's model by means of the homotopy analysis method. Mathematical and Computer Modelling, 2012, 55, 1876-1891.	2.0	206
144	Heat Transfer in Nanofluids 2012. Advances in Mechanical Engineering, 2012, 4, 972973.	1.6	10

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145	The Role of Nanoparticle Suspensions in Thermo/Fluid and Biomedical Applications. Computational and Physical Processes in Mechanics and Thermal Science, 2012, , 25-68.	0.7	4
146	Series solutions for magnetohydrodynamic flow of non-Newtonian nanofluid and heat transfer in coaxial porous cylinder with slip conditions. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems, 2011, 225, 123-132.	0.1	18
147	Analysis of heat flux bifurcation inside porous media incorporating inertial and dispersion effects "An exact solution. International Journal of Heat and Mass Transfer, 2011, 54, 5286-5297.	4.8	64
148	Interfacial interactions of biomaterials in water decontamination applications. Journal of Materials Science, 2011, 46, 6277-6284.	3.7	5
149	Abbaschian Festschrift. Journal of Materials Science, 2011, 46, 6169-6171.	3.7	0
150	A critical synthesis of thermophysical characteristics of nanofluids. International Journal of Heat and Mass Transfer, 2011, 54, 4410-4428.	4.8	917
151	Cooling augmentation using microchannels with rotatable separating plates. International Journal of Heat and Mass Transfer, 2011, 54, 3732-3739.	4.8	28
152	Restrictions on the Validity of the Thermal Conditions at the Porous-Fluid Interface"An Exact Solution. Journal of Heat Transfer, 2011, 133, .	2.1	64
153	Analysis of Heat Transfer in Consecutive Variable Cross-Sectional Domains: Applications in Biological Media and Thermal Management. Journal of Heat Transfer, 2011, 133, .	2.1	21
154	Human Eye Response to Thermal Disturbances. Journal of Heat Transfer, 2011, 133, .	2.1	42
155	Transient Aspects of Heat Flux Bifurcation in Porous Media: An Exact Solution. Journal of Heat Transfer, 2011, 133, .	2.1	41
156	Analysis of Deflection Enhancement Using Epsilon Assembly Microcantilevers Based Sensors. Sensors, 2011, 11, 9260-9274.	3.8	3
157	Heat Transfer Enhancement in a Differentially Heated Enclosure Using Nanofluids-Turbulent Regime. AIP Conference Proceedings, 2010, , .	0.4	1
158	An investigation of the thermal performance of cylindrical heat pipes using nanofluids. International Journal of Heat and Mass Transfer, 2010, 53, 376-383.	4.8	216
159	Thermal performance of flat-shaped heat pipes using nanofluids. International Journal of Heat and Mass Transfer, 2010, 53, 1438-1445.	4.8	150
160	Vibration induced mixed convection in an open-ended obstructed cavity. International Journal of Heat and Mass Transfer, 2010, 53, 2703-2714.	4.8	16
161	Synthesis of biofilm resistance characteristics against antibiotics. International Journal of Heat and Mass Transfer, 2010, 53, 2943-2950.	4.8	13
162	Analysis of temperature gradient bifurcation in porous media "An exact solution. International Journal of Heat and Mass Transfer, 2010, 53, 4316-4325.	4.8	114

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163	Analysis of Bioheat Transport Through a Dual Layer Biological Media. Journal of Heat Transfer, 2010, 132, .	2.1	49
164	Mixed Convection in an Obstructed Open-Ended Cavity. Numerical Heat Transfer; Part A: Applications, 2010, 57, 709-729.	2.1	29
165	MICROCANTILEVERS IN BIOMEDICAL AND THERMO/FLUID APPLICATIONS. Frontiers in Heat and Mass Transfer, 2010, 1, .	0.2	2
166	Thermal Modeling of the Human Eye as a Porous Structure. , 2009, , .		1
167	Analytical Characterization and Production of an Isothermal Surface for Biological and Electronic Applications. Journal of Heat Transfer, 2009, 131, .	2.1	34
168	Biofilm affected characteristics of porous structures. International Journal of Heat and Mass Transfer, 2009, 52, 574-581.	4.8	29
169	Analytical characterization of heat transport through biological media incorporating hyperthermia treatment. International Journal of Heat and Mass Transfer, 2009, 52, 1608-1618.	4.8	151
170	An Investigation of Convective Cooling of an Array of Channel-Mounted Obstacles. Numerical Heat Transfer; Part A: Applications, 2009, 55, 967-982.	2.1	25
171	Recent Advances in Porous Media Transport. Journal of Heat Transfer, 2009, 131, .	2.1	1
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