

Kambiz Vafai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

234
papers

11,853
citations

52
h-index

103
g-index

249
ext. papers

13,416
ext. citations

3.6
avg, IF

7.08
L-index

#	Paper	IF	Citations
234	Amelioration of pool boiling thermal performance utilizing graphene-silver hybrid nanofluids. <i>Powder Technology</i> , 2022 , 397, 117110	5.2	1
233	Thermal, thermodynamic and exergoeconomic investigation of a parabolic trough collector utilizing nanofluids. <i>Applied Thermal Engineering</i> , 2022 , 206, 118117	5.8	12
232	A robust single-phase approach for the numerical simulation of heat pipe. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 132, 105894	5.8	5
231	Heat transfer and fluid flow analysis of microchannel heat sinks with periodic vertical porous ribs. <i>Applied Thermal Engineering</i> , 2022 , 205, 118059	5.8	4
230	Thermal and hydraulic performance of rectangular microchannel heat sinks with trapezoidal porous configuration. <i>Numerical Heat Transfer; Part A: Applications</i> , 2022 , 81, 72-93	2.3	5
229	Thermal analysis of fused deposition modeling process based finite element method: Simulation and parametric study. <i>Numerical Heat Transfer; Part A: Applications</i> , 2022 , 81, 94-118	2.3	0
228	Application of Porous-Embedded Shell and Tube Heat Exchangers for The Waste Heat Recovery Systems. <i>Applied Thermal Engineering</i> , 2022 , 118452	5.8	0
227	Heat up impact on thermal stresses in SOFC for mobile APU applications: Thermo-structural analysis. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102159	4.7	
226	Computational biomedical simulations of hybrid nanoparticles (Au-Al ₂ O ₃ / blood-mediated) transport. <i>Chemical Physics Letters</i> , 2022 , 800, 139666	2.5	5
225	Experimental study of boiling heat transfer for a novel type of GNP-Fe ₃ O ₄ hybrid nanofluids blended with different nanoparticles. <i>Powder Technology</i> , 2021 ,	5.2	2
224	Numerical simulation of flattened heat pipe with double heat sources for CPU and GPU cooling application in laptop computers. <i>Journal of Computational Design and Engineering</i> , 2021 , 8, 524-535	4.6	2
223	Flow and heat transfer characteristics of non-Newtonian fluid over an oscillating flat plate. <i>Numerical Heat Transfer; Part A: Applications</i> , 2021 , 79, 721-733	2.3	
222	A mesoscopic model for thermal solutal problems of power-law fluids through porous media. <i>Physics of Fluids</i> , 2021 , 33, 033114	4.4	12
221	Synthesis of Flow and Thermal Transport in Porous Media as Applied to Biological Applications. <i>Journal of Heat Transfer</i> , 2021 , 143,	1.8	2
220	Analysis of turbulent two-phase flow and heat transfer using nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 124, 105219	5.8	4
219	Transient performance of a solar humidification-dehumidification desalination system based on hollow fiber membrane. <i>Journal of Computational Design and Engineering</i> , 2021 , 8, 923-934	4.6	1
218	Flow and heat transfer characteristics of non-Newtonian fluid over an oscillating flat plate. <i>Numerical Heat Transfer; Part A: Applications</i> , 2021 , 80, 154-167	2.3	

217	Thermal management of transverse magnetic source effects on nanofluid natural convection in a wavy porous enclosure. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 2851-2865	4.1	13
216	Analysis of hotspots and cooling strategy for multilayer three-dimensional integrated circuits. <i>Applied Thermal Engineering</i> , 2021 , 186, 116336	5.8	5
215	Analysis of the optimum configuration for the capillary rise and the permeability of the fiber wick structure for heat removal in heat pipes. <i>Heat and Mass Transfer</i> , 2021 , 57, 1513-1526	2.2	0
214	Geometrical optimization of boron arsenide inserts embedded in a heat spreader to improve its cooling performance for three dimensional integrated circuits. <i>Numerical Heat Transfer; Part A: Applications</i> , 2021 , 80, 389-410	2.3	0
213	Transport and dynamic analysis of magnetic nanoparticles in brain microvascular vessels. <i>Physics of Fluids</i> , 2021 , 33, 081907	4.4	4
212	Amelioration of boiling heat transfer by 3D deposition structure of graphene-silver hybrid nanoparticle. <i>Energy Conversion and Management: X</i> , 2021 , 12, 100109	2.5	1
211	Thermal tissue damage analysis for magnetothermal neuromodulation and lesion size minimization. <i>Brain Multiphysics</i> , 2020 , 1, 100014	4.2	4
210	Thermal stimulation of targeted neural circuits via remotely controlled nano-transducers: A therapy for neurodegenerative disorders. <i>Advances in Heat Transfer</i> , 2020 , 543-581	1.9	2
209	Nanofluid buoyancy-driven heat transfer in three-dimensional horizontal annuli. <i>European Journal of Mechanics, B/Fluids</i> , 2020 , 82, 66-82	2.4	4
208	Experimental characterization on pore parameter and the irradiation absorption efficiency of a series SiC foam specimens. <i>Energy Conversion and Management</i> , 2020 , 212, 112795	10.6	6
207	Thermal performance analysis of phase change materials (PCMs) embedded in gradient porous metal foams. <i>Applied Thermal Engineering</i> , 2020 , 179, 115731	5.8	39
206	Heat removal enhancement in a channel with a single or an array of metallic foam obstacles. <i>International Journal of Thermal Sciences</i> , 2020 , 149, 106057	4.1	10
205	Effect of a circular cylinder and flexible wall on natural convective heat transfer characteristics in a cavity filled with a porous medium. <i>Applied Thermal Engineering</i> , 2020 , 181, 115989	5.8	9
204	Application of porous metal foam heat exchangers and the implications of particulate fouling for energy-intensive industries. <i>Chemical Engineering Science</i> , 2020 , 228, 115968	4.4	18
203	Analysis of particle deposition of nanofluid flow through porous media. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 161, 120227	4.9	19
202	Thermal effect and optimal design of cooling pipes on mass concrete with constant quantity of water flow. <i>Numerical Heat Transfer; Part A: Applications</i> , 2020 , 78, 619-635	2.3	1
201	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	6	32
200	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	47

199	Nanofluids transport through a novel concave/convex convergent pipe. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019 , 75, 91-109	2.3	11
198	Applications of nanofluids in porous medium. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 1479-1492	4.1	71
197	Electromagnetic flow for two-layer immiscible fluids 2019 , 22, 237-248		23
196	Correlation between MMP and TIMP levels and elastic moduli of ascending thoracic aortic aneurysms. <i>Cardiovascular Revascularization Medicine</i> , 2019 , 20, 324-327	1.6	4
195	External and internal cloud condensation nuclei (CCN) mixtures: controlled laboratory studies of varying mixing states. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 4277-4289	4	6
194	HYPO- AND HYPERTHERMIA EFFECTS ON LDL DEPOSITION IN A CURVED ARTERY. <i>Computational Thermal Sciences</i> , 2019 , 11, 95-103	1.9	15
193	The porous media theory applied to radiofrequency catheter ablation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 2669-2681	4.5	12
192	Mixed convection heat transfer in a differentially heated cavity with two rotating cylinders. <i>International Journal of Thermal Sciences</i> , 2019 , 135, 117-132	4.1	33
191	Microchannel thermal performance optimization utilizing porous layer configurations. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 133, 62-72	4.9	14
190	Analysis of porous filled heat exchangers for electronic cooling. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 133, 268-276	4.9	17
189	Thermal-Hydraulic Performance Analysis of a Convergent Double Pipe Heat Exchanger. <i>Journal of Heat Transfer</i> , 2019 , 141,	1.8	5
188	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,	2.3	3
187	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	4.9	39
186	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	4.9	65
185	A review on the applications of nanofluids in solar energy field. <i>Renewable Energy</i> , 2018 , 123, 398-406	8.1	198
184	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	6.1	45
183	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	2.8	30
182	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	6	43

181	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	2.4	15
180	Boundary layer considerations in a multi-layer model for LDL accumulation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018 , 21, 803-811	2.1	9
179	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	5.8	1
178	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	2.4	53
177	Forced Convection in a Bidisperse Porous Medium Embedded in a Circular Pipe. <i>Journal of Heat Transfer</i> , 2017 , 139,	1.8	9
176	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	3.2	34
175	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	4.9	87
174	Mass transfer performance of the LiCl solution dehumidification process. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 85, 139-146	5.8	5
173	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	2.3	5
172	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	2.2	20
171	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	6	174
170	Heat transfer augmentation through convergence angles in a pipe. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 72, 197-214	2.3	22
169	Electromagnetic field-induced thermal management of biological materials. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 72, 275-290	2.3	3
168	Analysis of non-Newtonian effects within an aorta-iliac bifurcation region. <i>Journal of Biomechanics</i> , 2017 , 64, 153-163	2.9	23
167	Investigation of the Blockage Conditions in a Laminated-Sheet Microchannel Reactor. <i>Chemical Engineering and Technology</i> , 2017 , 40, 2283-2294	2	9
166	An investigation of thermal characteristics of eutectic molten salt-based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 87, 98-104	5.8	25
165	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	4.4	19
164	Velocity Uniformity of Microchannels in a Laminated-Sheet Structure Under Parallel and Series Methods. <i>Chemical Engineering and Technology</i> , 2017 , 40, 1774-1783	2	8

163	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	5.8	21
162	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	4.9	83
161	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	2.2	19
160	Analysis of the anomalies in graphene thermal properties. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 328-336	4.9	15
159	Effect of nanoparticles on condensation of humid air in vertical channels. <i>International Journal of Thermal Sciences</i> , 2017 , 112, 470-483	4.1	4
158	Particulate suspension effect on peristaltically induced unsteady pulsatile flow in a narrow artery: Blood flow model. <i>Mathematical Biosciences</i> , 2017 , 283, 91-105	3.9	49
157	Analysis of nanofluid transport through a wavy channel. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 72, 869-890	2.3	24
156	Analysis of the volumetric phenomenon in porous beds subject to irradiation. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016 , 70, 567-580	2.3	12
155	Convective heat transfer of nanofluid in a wavy channel: Buongiorno's mathematical model. <i>Journal of Molecular Liquids</i> , 2016 , 222, 446-455	6	160
154	Learning-based occupancy behavior detection for smart buildings 2016 ,		3
153	Analysis of two approaches for an adiabatic boundary condition in porous media. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016 , 26, 977-998	4.5	8
152	Peristaltic Flow of Couple Stress Fluid in a Non-Uniform Rectangular Duct Having Compliant Walls. <i>Communications in Theoretical Physics</i> , 2016 , 65, 66-72	2.4	45
151	Low-density lipoprotein transport through an arterial wall under hyperthermia and hypertension conditions--An analytical solution. <i>Journal of Biomechanics</i> , 2016 , 49, 193-204	2.9	37
150	Analysis of critical thermal issues in 3D integrated circuits. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 97, 337-352	4.9	30
149	A Critical Synthesis of Graphene Thermal Properties and Its Applications. <i>Advances in Heat Transfer</i> , 2016 , 48, 95-124	1.9	5
148	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	4.5	25
147	Thermophysical and Geometrical Effects on the Thermal Performance and Optimization of a Three-Dimensional Integrated Circuit. <i>Journal of Heat Transfer</i> , 2016 , 138,	1.8	6
146	Analysis of non-Newtonian effects on Low-Density Lipoprotein accumulation in an artery. <i>Journal of Biomechanics</i> , 2016 , 49, 1437-1446	2.9	32

145	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	5.8	16
144	A comparative analysis of innovative microchannel heat sinks for electronic cooling. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 76, 271-284	5.8	54
143	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	5.8	10
142	Analysis of Low Density Lipoprotein (LDL) Transport Within a Curved Artery. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 1571-84	4.7	25
141	Analysis of Natural Convection in Horizontal Concentric Annuli of Varying Inner Shape. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015 , 68, 1155-1174	2.3	27
140	Forced convection gaseous slip flow in a porous circular microtube: An exact solution. <i>International Journal of Thermal Sciences</i> , 2015 , 97, 152-162	4.1	20
139	Analysis and Characterization of Metal Foam-Filled Double-Pipe Heat Exchangers. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015 , 68, 1031-1049	2.3	34
138	Analysis of gaseous slip flow in a porous micro-annulus under local thermal non-equilibrium condition [An exact solution. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 1331-1341	4.9	25
137	Analysis and analytical characterization of bioheat transfer during radiofrequency ablation. <i>Journal of Biomechanics</i> , 2015 , 48, 930-40	2.9	43
136	Thermal effects on transport in the resting mammary glands. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 85, 987-995	4.9	2
135	The Blood Flow of Prandtl Fluid Through a Tapered Stenosed Arteries in Permeable Walls with Magnetic Field. <i>Communications in Theoretical Physics</i> , 2015 , 63, 353-358	2.4	58
134	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	5.8	22
133	Effects of External and Internal Hyperthermia on LDL Transport and Accumulation Within an Arterial Wall in the Presence of a Stenosis. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 1585-99	4.7	39
132	Analysis of collimated irradiation under local thermal non-equilibrium condition in a packed bed. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 80, 789-801	4.9	25
131	Heat transfer characteristics and CHF prediction in nanofluid boiling. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 80, 256-265	4.9	25
130	Validation of a computational model versus a bench top model of an aortic dissection model. <i>Journal of Biomedical Engineering and Informatics</i> , 2015 , 2, 82		4
129	The Study of Peristaltic Motion of Third Grade Fluid under the Effects of Hall Current and Heat Transfer. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2015 , 70, 281-293	1.4	21
128	Fluid-Structure Interactions in a Tissue during Hyperthermia. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014 , 66, 1-16	2.3	21

127	Two-phase CO ₂ migration in tilted aquifers in the presence of groundwater flow. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 77, 717-729	4.9	4
126	Optimal Positioning of Strips for Heat Transfer Reduction within an Enclosure. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014 , 66, 17-40	2.3	13
125	Investigation of Heat Transfer Enhancement in a Forward-Facing Contracting Channel Using FMWCNT Nanofluids. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014 , 66, 1321-1340	2.3	197
124	Analysis of Radiative Effect under Local Thermal Non-Equilibrium Conditions in Porous Media-Application to a Solar Air Receiver. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014 , 65, 931-948	2.3	29
123	Investigation of pollutant reduction by simulation of turbulent non-premixed pulverized coal combustion. <i>Applied Thermal Engineering</i> , 2014 , 73, 1222-1235	5.8	57
122	Heat transfer enhancement by layering of two immiscible co-flows. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 68, 299-309	4.9	11
121	Effects of heat and mass transfer on peristaltic flow in a non-uniform rectangular duct. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 71, 706-719	4.9	113
120	Modeling and analysis of transport in the mammary glands. <i>Physical Biology</i> , 2014 , 11, 045004	3	9
119	A study on the mixed convection boundary layer flow and heat transfer over a vertical slender cylinder. <i>Thermal Science</i> , 2014 , 18, 1247-1258	1.2	14
118	A Mathematical Study of Non-Newtonian Micropolar Fluid in Arterial Blood Flow Through Composite Stenosis. <i>Applied Mathematics and Information Sciences</i> , 2014 , 8, 1567-1573	2.4	54
117	Mechanobiology of low-density lipoprotein transport within an arterial wall--impact of hyperthermia and coupling effects. <i>Journal of Biomechanics</i> , 2014 , 47, 137-47	2.9	33
116	Electromagnetic field effects on biological materials. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 65, 389-399	4.9	29
115	Analysis of the effect of stent emplacement on LDL transport within an artery. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 64, 1031-1040	4.9	15
114	Analysis of thermally developing flow in porous media under local thermal non-equilibrium conditions. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 67, 768-775	4.9	48
113	Applications of Nanomaterials in Solar Energy and Desalination Sectors. <i>Advances in Heat Transfer</i> , 2013 , 45, 303-329	1.9	3
112	A Note on Local Thermal Non-equilibrium in Porous Media and Heat Flux Bifurcation Phenomenon in Porous Media. <i>Transport in Porous Media</i> , 2013 , 96, 169-172	3.1	28
111	Analysis of the multidimensional effects in biofilms. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 56, 340-349	4.9	6
110	Low-density lipoprotein transport within a multi-layered arterial wall--effect of the atherosclerotic plaque/stenosis. <i>Journal of Biomechanics</i> , 2013 , 46, 574-85	2.9	38

109	Analysis of detection enhancement using microcantilevers with long-slit-based sensors. <i>Sensors</i> , 2013 , 13, 681-702	3.8	2
108	Series solutions of non-Newtonian nanofluids with Reynolds' model and Vogel' model by means of the homotopy analysis method. <i>Mathematical and Computer Modelling</i> , 2012 , 55, 1876-1891		178
107	Analysis of biofilm growth in the presence of osmotic pressure and temperature effects. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 5709-5721	4.9	6
106	Effect of the fluid-structure interactions on low-density lipoprotein transport within a multi-layered arterial wall. <i>Journal of Biomechanics</i> , 2012 , 45, 371-81	2.9	46
105	Effects of pressure on arterial failure. <i>Journal of Biomechanics</i> , 2012 , 45, 2577-88	2.9	21
104	Thermal performance and operational attributes of the startup characteristics of flat-shaped heat pipes using nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 140-155	4.9	72
103	Electromagnetic field effects on transport through porous media. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 325-335	4.9	22
102	The Role of Nanoparticle Suspensions in Thermo/Fluid and Biomedical Applications. <i>Computational and Physical Processes in Mechanics and Thermal Science</i> , 2012 , 25-68		2
101	Analysis of heat flux bifurcation inside porous media incorporating inertial and dispersion effects □ An exact solution. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 5286-5297	4.9	57
100	Interfacial interactions of biomaterials in water decontamination applications. <i>Journal of Materials Science</i> , 2011 , 46, 6277-6284	4.3	2
99	Abbaschian Festschrift. <i>Journal of Materials Science</i> , 2011 , 46, 6169-6171	4.3	
98	A critical synthesis of thermophysical characteristics of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 4410-4428	4.9	703
97	Series solutions for magnetohydrodynamic flow of non-Newtonian nanofluid and heat transfer in coaxial porous cylinder with slip conditions. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2011 , 225, 123-132		10
96	Cooling augmentation using microchannels with rotatable separating plates. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 3732-3739	4.9	23
95	Restrictions on the Validity of the Thermal Conditions at the Porous-Fluid Interface □ An Exact Solution. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	57
94	Analysis of Heat Transfer in Consecutive Variable Cross-Sectional Domains: Applications in Biological Media and Thermal Management. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	19
93	Human Eye Response to Thermal Disturbances. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	34
92	Transient Aspects of Heat Flux Bifurcation in Porous Media: An Exact Solution. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	33

91	Analysis of deflection enhancement using epsilon assembly microcantilevers based sensors. <i>Sensors</i> , 2011 , 11, 9260-74	3.8	3
90	Analysis of Bioheat Transport Through a Dual Layer Biological Media. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	46
89	Mixed Convection in an Obstructed Open-Ended Cavity. <i>Numerical Heat Transfer; Part A: Applications</i> , 2010 , 57, 709-729	2.3	27
88	Heat Transfer Enhancement in a Differentially Heated Enclosure Using Nanofluids-Turbulent Regime 2010 ,		1
87	An investigation of the thermal performance of cylindrical heat pipes using nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 376-383	4.9	179
86	Thermal performance of flat-shaped heat pipes using nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 1438-1445	4.9	134
85	Vibration induced mixed convection in an open-ended obstructed cavity. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 2703-2714	4.9	14
84	Synthesis of biofilm resistance characteristics against antibiotics. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 2943-2950	4.9	12
83	Analysis of temperature gradient bifurcation in porous media [An exact solution. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 4316-4325	4.9	103
82	MICROCANTILEVERS IN BIOMEDICAL AND THERMO/FLUID APPLICATIONS. <i>Frontiers in Heat and Mass Transfer</i> , 2010 , 1,		2
81	Thermal Modeling of the Human Eye as a Porous Structure 2009 ,		1
80	Analytical Characterization and Production of an Isothermal Surface for Biological and Electronic Applications. <i>Journal of Heat Transfer</i> , 2009 , 131,	1.8	29
79	Biofilm affected characteristics of porous structures. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 574-581	4.9	23
78	Analytical characterization of heat transport through biological media incorporating hyperthermia treatment. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 1608-1618	4.9	126
77	An Investigation of Convective Cooling of an Array of Channel-Mounted Obstacles. <i>Numerical Heat Transfer; Part A: Applications</i> , 2009 , 55, 967-982	2.3	23
76	Recent Advances in Porous Media Transport. <i>Journal of Heat Transfer</i> , 2009 , 131,	1.8	1
75	Experimental Investigation of Opposing Mixed Convection in a Channel with an open Cavity Below. <i>Experimental Heat Transfer</i> , 2008 , 21, 99-114	2.4	25
74	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	2.3	28

73	Rapid microfluidic thermal cyler for polymerase chain reaction nucleic acid amplification. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 2109-2122	4.9	28
72	Effects of gender-related geometrical characteristics of aortaϐiac bifurcation on hemodynamics and macromolecule concentration distribution. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 5542-5551	4.9	24
71	Critical assessment of arterial transport models. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 807-822	4.9	87
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