

Kambiz Vafai

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234
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103
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249
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13,416
ext. citations

3.6
avg, IF

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L-index

#	Paper	IF	Citations
234	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	4.9	1988
233	A critical synthesis of thermophysical characteristics of nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 4410-4428	4.9	703
232	The role of porous media in modeling flow and heat transfer in biological tissues. <i>International Journal of Heat and Mass Transfer</i> , 2003 , 46, 4989-5003	4.9	490
231	Convective flow and heat transfer in variable-porosity media. <i>Journal of Fluid Mechanics</i> , 1984 , 147, 233	3.7	402
230	Analytical characterization and conceptual assessment of solid and fluid temperature differentials in porous media. <i>International Journal of Heat and Mass Transfer</i> , 1999 , 42, 423-435	4.9	255
229	Constant wall heat flux boundary conditions in porous media under local thermal non-equilibrium conditions. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 3071-3087	4.9	253
228	Analysis of two-layered micro-channel heat sink concept in electronic cooling. <i>International Journal of Heat and Mass Transfer</i> , 1999 , 42, 2287-2297	4.9	248
227	A synthesis of fluid and thermal transport models for metal foam heat exchangers. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 3701-3711	4.9	219
226	Analysis of Energy and Momentum Transport for Fluid Flow Through a Porous Bed. <i>Journal of Heat Transfer</i> , 1990 , 112, 690-699	1.8	203
225	A review on the applications of nanofluids in solar energy field. <i>Renewable Energy</i> , 2018 , 123, 398-406	8.1	198
224	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
223	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
222	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
221	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
220	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
219	Modeling of low-density lipoprotein (LDL) transport in the artery—effects of hypertension. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 850-867	4.9	144
218	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

217	A coupling model for macromolecule transport in a stenosed arterial wall. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 1568-1591	4.9	128
216	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
215	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
214	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
213	Convective flow and heat transfer in a channel containing multiple heated obstacles. <i>International Journal of Heat and Mass Transfer</i> , 1998 , 41, 3279-3298	4.9	100
212	Analysis of Surface Enhancement by a Porous Substrate. <i>Journal of Heat Transfer</i> , 1990 , 112, 700-706	1.8	99
211	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	2.2	96
210	Convective and Radiative Heat Transfer in Porous Media. <i>Advances in Applied Mechanics</i> , 1989 , 27, 225-280		94
209	Convective cooling of a heated obstacle in a channel. <i>International Journal of Heat and Mass Transfer</i> , 1998 , 41, 3131-3148	4.9	91
208	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
207	Critical assessment of arterial transport models. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 807-822	4.9	87
206	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
205	EFFECT OF HEATED WALL POSITION ON MIXED CONVECTION IN A CHANNEL WITH AN OPEN CAVITY. <i>Numerical Heat Transfer; Part A: Applications</i> , 2003 , 43, 259-282	2.3	83
204	Analysis of flow and heat transfer in porous media imbedded inside various-shaped ducts. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 1889-1905	4.9	81
203	High sensitivity piezoresistive cantilever design and optimization for analyte-receptor binding. <i>Journal of Micromechanics and Microengineering</i> , 2003 , 13, 864-872	2	81
202	Analysis of non-Darcian effects on temperature differentials in porous media. <i>International Journal of Heat and Mass Transfer</i> , 2001 , 44, 4401-4411	4.9	81
201	The effect of the slip condition on Stokes and Couette flows due to an oscillating wall: exact solutions. <i>International Journal of Non-Linear Mechanics</i> , 2004 , 39, 795-809	2.8	75
200	Heat transfer enhancement through control of thermal dispersion effects. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 2172-2185	4.9	74

199	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
198	Applications of nanofluids in porous medium. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 1479-1492	4.1	71
197	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
196	Analysis of heat and mass transfer between air and falling film in a cross flow configuration. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 743-755	4.9	62
195	Thermal and fluid flow instabilities in buoyancy-driven flows in open-ended cavities. <i>International Journal of Heat and Mass Transfer</i> , 1990 , 33, 2329-2344	4.9	60
194	Low-density lipoprotein (LDL) transport in an artery [A simplified analytical solution. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 497-505	4.9	59
193	Analysis of Variable Porosity, Thermal Dispersion, and Local Thermal Nonequilibrium on Free Surface Flows Through Porous Media. <i>Journal of Heat Transfer</i> , 2004 , 126, 389-399	1.8	59
192	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
191	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
190	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
189	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
188	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
187	Hydromagnetic squeezed flow and heat transfer over a sensor surface. <i>International Journal of Engineering Science</i> , 2004 , 42, 509-519	5.7	54
186	Mixed convection heat transfer in two-dimensional open-ended enclosures. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 5171-5190	4.9	54
185	The effects of sharp corners on buoyancy-driven flows with particular emphasis on outer boundaries. <i>International Journal of Heat and Mass Transfer</i> , 1990 , 33, 2311-2328	4.9	54
184	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
183	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
182	Comparative study between parallel and counter flow configurations between air and falling film desiccant in the presence of nanoparticle suspensions. <i>International Journal of Energy Research</i> , 2003 , 27, 725-745	4.5	52

181	A numerical and experimental investigation of stability of natural convective flows within a horizontal annulus. <i>Journal of Fluid Mechanics</i> , 1999 , 381, 27-61	3.7	51
180	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
179	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
178	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
177	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
176	Analysis of Bioheat Transport Through a Dual Layer Biological Media. <i>Journal of Heat Transfer</i> , 2010 , 132,	1.8	46
175	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
174	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
173	Experimental Investigation of Mixed Convection in a Channel With an Open Cavity. <i>Experimental Heat Transfer</i> , 2006 , 19, 53-68	2.4	44
172	An investigation of heat and mass transfer between air and desiccant film in an inclined parallel and counter flow channels. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 1745-1760	4.9	44
171	Analysis and analytical characterization of bioheat transfer during radiofrequency ablation. <i>Journal of Biomechanics</i> , 2015 , 48, 930-40	2.9	43
170	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
169	A comprehensive analytical solution of macromolecular transport within an artery. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 2905-2913	4.9	42
168	Analysis of flexible microchannel heat sink systems. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 1739-1746	4.9	40
167	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
166	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
165	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
164	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

163	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
162	Analysis of oscillating compressible flow through a packed bed. <i>International Journal of Heat and Fluid Flow</i> , 1991 , 12, 130-136	2.4	37
161	An investigation of transient three-dimensional buoyancy-driven flow and heat transfer in a closed horizontal annulus. <i>International Journal of Heat and Mass Transfer</i> , 1991 , 34, 2555-2570	4.9	36
160	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
159	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
158	Human Eye Response to Thermal Disturbances. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	34
157	An Investigation of Stokes' Second Problem for Non-Newtonian Fluids. <i>Numerical Heat Transfer; Part A: Applications</i> , 2005 , 47, 955-980	2.3	34
156	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
155	Transient Aspects of Heat Flux Bifurcation in Porous Media: An Exact Solution. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	33
154	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
153	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
152	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
151	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
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	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
148	Electromagnetic field effects on biological materials. <i>International Journal of Heat and Mass Transfer</i> , 2013 , 65, 389-399	4.9	29
147	Analytical Characterization and Production of an Isothermal Surface for Biological and Electronic Applications. <i>Journal of Heat Transfer</i> , 2009 , 131,	1.8	29
146	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

145	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
144	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
143	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
142	Mixed Convection in an Obstructed Open-Ended Cavity. <i>Numerical Heat Transfer; Part A: Applications</i> , 2010 , 57, 709-729	2.3	27
141	Three-dimensional natural convective states in a narrow-gap horizontal annulus. <i>Journal of Fluid Mechanics</i> , 2001 , 445, 1-36	3.7	27
140	Thermal charging and discharging of sensible and latent heat storagepacked beds. <i>Journal of Thermophysics and Heat Transfer</i> , 1991 , 5, 623-625	1.3	27
139	Analysis of flow and heat transfer inside oscillatory squeezed thin films subject to a varying clearance. <i>International Journal of Heat and Mass Transfer</i> , 2003 , 46, 631-641	4.9	26
138	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	4.9	26
137	Analysis of Low Density Lipoprotein (LDL) Transport Within a Curved Artery. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 1571-84	4.7	25
136	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
135	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
134	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
133	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
132	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
131	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
130	Analysis of nanofluid transport through a wavy channel. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 72, 869-890	2.3	24
129	Effects of gender-related geometrical characteristics of aorta-iliac bifurcation on hemodynamics and macromolecule concentration distribution. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 5542-5551	4.9	24
128	Analysis of non-Newtonian effects within an aorta-iliac bifurcation region. <i>Journal of Biomechanics</i> , 2017 , 64, 153-163	2.9	23

127	Electromagnetic flow for two-layer immiscible fluids 2019 , 22, 237-248		23
126	Biofilm affected characteristics of porous structures. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 574-581	4.9	23
125	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
124	Cooling augmentation using microchannels with rotatable separating plates. <i>International Journal of Heat and Mass Transfer</i> , 2011 , 54, 3732-3739	4.9	23
123	Heat transfer augmentation through convergence angles in a pipe. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017 , 72, 197-214	2.3	22
122	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
121	Electromagnetic field effects on transport through porous media. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 325-335	4.9	22
120	Fluid-Structure Interactions in a Tissue during Hyperthermia. <i>Numerical Heat Transfer; Part A: Applications</i> , 2014 , 66, 1-16	2.3	21
119	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
118	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
117	Effects of pressure on arterial failure. <i>Journal of Biomechanics</i> , 2012 , 45, 2577-88	2.9	21
116	Flow and heat transfer inside thin films supported by soft seals in the presence of internal and external pressure pulsations. <i>International Journal of Heat and Mass Transfer</i> , 2002 , 45, 5107-5115	4.9	21
115	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
114	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
113	Control of exit flow and thermal conditions using two-layered thin films supported by flexible complex seals. <i>International Journal of Heat and Mass Transfer</i> , 2004 , 47, 1599-1611	4.9	20
112	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
111	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
110	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

109	Optimization modeling of analyte adhesion over an inclined microcantilever-based biosensor. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 1220-1229	2	19
108	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
107	Water diffusion in biomedical systems as related to magnetic resonance imaging. <i>Magnetic Resonance Imaging</i> , 2003 , 21, 17-31	3.3	18
106	Analysis of Linear Encroachment in Two-Immiscible Fluid Systems in a Porous Medium. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 1994 , 116, 135-139	2.1	18
105	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
104	An Investigation of a Falling Film Desiccant Dehumidification/ Regeneration Cooling System. <i>Heat Transfer Engineering</i> , 2007 , 28, 163-172	1.7	17
103	Analysis of oscillatory flow disturbances and thermal characteristics inside fluidic cells due to fluid leakage and wall slip conditions. <i>Journal of Biomechanics</i> , 2004 , 37, 721-9	2.9	17
102	On the presence of odd transverse convective rolls in narrow-gap horizontal annuli. <i>Physics of Fluids</i> , 2002 , 14, 1291-1294	4.4	17
101	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
100	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
99	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
98	Analysis of the anomalies in graphene thermal properties. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 328-336	4.9	15
97	Effects of gravity modulation on convection in a horizontal annulus. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 348-360	4.9	15
96	Spatial optimization of an array of aligned microcantilever based sensors. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 1328-1336	2	15
95	A COMPARATIVE ANALYSIS OF MULTIPHASE TRANSPORT MODELS IN POROUS MEDIA. <i>Annual Review of Heat Transfer</i> , 1990 , 3, 145-162	2.7	15
94	HYPO- AND HYPERTHERMIA EFFECTS ON LDL DEPOSITION IN A CURVED ARTERY. <i>Computational Thermal Sciences</i> , 2019 , 11, 95-103	1.9	15
93	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
92	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

91	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
90	Microchannel thermal performance optimization utilizing porous layer configurations. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 133, 62-72	4.9	14
89	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
88	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
87	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
86	Synthesis of biofilm resistance characteristics against antibiotics. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 2943-2950	4.9	12
85	Analysis of transport phenomena within PEM fuel cells [An analytical solution. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 3712-3723	4.9	12
84	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	4.9	12
83	Analysis of Heat Transfer and Fluid Flow Through a Spirally Fluted Tube Using a Porous Substrate Approach. <i>Journal of Heat Transfer</i> , 1994 , 116, 543-551	1.8	12
82	Thermal, thermodynamic and exergoeconomic investigation of a parabolic trough collector utilizing nanofluids. <i>Applied Thermal Engineering</i> , 2022 , 206, 118117	5.8	12
81	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
80	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
79	Nanofluids transport through a novel concave/convex convergent pipe. <i>Numerical Heat Transfer; Part A: Applications</i> , 2019 , 75, 91-109	2.3	11
78	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
77	Analysis of Absorption Process in a Smooth-Tube Heat Exchanger with a Porous Medium. <i>Heat Transfer Engineering</i> , 1994 , 15, 42-55	1.7	11
76	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
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