

Perumal Nithiarasu

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.

161
papers

3,726
citations

31
h-index

55
g-index

185
ext. papers

4,215
ext. citations

3.2
avg, IF

5.65
L-index

#	Paper	IF	Citations
161	High performance, microarchitected, compact heat exchanger enabled by 3D printing. <i>Applied Thermal Engineering</i> , 2022 , 210, 118339	5.8	0
160	On the poro-elastic models for microvascular blood flow resistance: An in vitro validation. <i>Journal of Biomechanics</i> , 2021 , 117, 110241	2.9	0
159	A physiologically realistic virtual patient database for the study of arterial haemodynamics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021 , 37, e3497	2.6	4
158	Numerical evaluation of additively manufactured lattice architectures for heat sink applications. <i>International Journal of Thermal Sciences</i> , 2021 , 159, 106607	4.1	8
157	Towards enabling a cardiovascular digital twin for human systemic circulation using inverse analysis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021 , 20, 449-465	3.8	19
156	Deep learning or interpolation for inverse modelling of heat and fluid flow problems?. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 3036-3046	4.5	0
155	Machine learning for detection of stenoses and aneurysms: application in a physiologically realistic virtual patient database. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021 , 20, 2097-2146	3.8	3
154	Biomechanics of cells and subcellular components: A comprehensive review of computational models and applications. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021 , e3520	2.6	3
153	A proof of concept study for machine learning application to stenosis detection. <i>Medical and Biological Engineering and Computing</i> , 2021 , 59, 2085-2114	3.1	2
152	Automating Fractional Flow Reserve (FFR) calculation from CT scans: A rapid workflow using unsupervised learning and computational fluid dynamics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021 , e3559	2.6	1
151	Data-driven inverse modelling through neural network (deep learning) and computational heat transfer. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 369, 113217	5.7	13
150	Artificial intelligence approaches to predict coronary stenosis severity using non-invasive fractional flow reserve. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020 , 234, 1337-1350	1.7	4
149	Diagnostic performance of virtual fractional flow reserve derived from routine coronary angiography using segmentation free reduced order (1-dimensional) flow modelling. <i>JRSM Cardiovascular Disease</i> , 2020 , 9, 2048004020967578	1.1	0
148	A novel numerical modelling approach for keratoplasty eye procedure. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019 , 18, 1429-1442	3.8	5
147	A novel porous media-based approach to outflow boundary resistances of 1D arterial blood flow models. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019 , 18, 939-951	3.8	7
146	Electromechanical vibration of microtubules and its application in biosensors. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20180826	4.1	4
145	A novel, FFT-based one-dimensional blood flow solution method for arterial network. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019 , 18, 1311-1334	3.8	4

144 Mathematical Techniques for Circulatory Systems **2019**, 79-94

143	Simulations on an undamped electromechanical vibration of microtubules in cytosol. <i>Applied Physics Letters</i> , 2019 , 114, 253702	3.4	4
142	Non-invasive coronary CT angiography-derived fractional flow reserve: A benchmark study comparing the diagnostic performance of four different computational methodologies. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019 , 35, e3235	2.6	20
141	Computational instantaneous wave-free ratio (IFR) for patient-specific coronary artery stenoses using 1D network models. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019 , 35, e3255	2.6	10
140	A generalised model for electro-osmotic flow in porous media. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 29, 4895-4924	4.5	0
139	A semi-active human digital twin model for detecting severity of carotid stenoses from head vibration-A coupled computational mechanics and computer vision method. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019 , 35, e3180	2.6	21
138	A multiscale active structural model of the arterial wall accounting for smooth muscle dynamics. <i>Journal of the Royal Society Interface</i> , 2018 , 15,	4.1	6
137	Suprachoroidal shunts for treatment of glaucoma. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018 , 28, 297-314	4.5	5
136	Novel semi-implicit, locally conservative Galerkin (SILCG) methods: Application to blood flow in a systemic circulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 332, 217-233	5.7	3
135	Perspectives on Sharing Models and Related Resources in Computational Biomechanics Research. <i>Journal of Biomechanical Engineering</i> , 2018 , 140,	2.1	8
134	Modelling electro-osmotic flow in porous media: a review. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018 , 28, 472-497	4.5	16
133	A generalised porous medium approach to study thermo-fluid dynamics in human eyes. <i>Medical and Biological Engineering and Computing</i> , 2018 , 56, 1823-1839	3.1	7
132	Effects of the cross-linkers on the buckling of microtubules in cells. <i>Journal of Biomechanics</i> , 2018 , 72, 167-172	2.9	5
131	Estimating the accuracy of a reduced-order model for the calculation of fractional flow reserve (FFR). <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018 , 34, e2908	2.6	38
130	Influence of ageing on human body blood flow and heat transfer: A detailed computational modelling study. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018 , 34, e3120	2.6	11
129	What does not kill a tumour may make it stronger: In silico insights into chemotherapeutic drug resistance. <i>Journal of Theoretical Biology</i> , 2018 , 454, 253-267	2.3	23
128	Structure-property relation and relevance of beam theories for microtubules: a coupled molecular and continuum mechanics study. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018 , 17, 339-349	3.8	7
127	Atomistic Modeling of F-Actin Mechanical Responses and Determination of Mechanical Properties. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 2794-2803	5.5	2

126	An improved method of computing geometrical potential force (GPF) employed in the segmentation of 3D and 4D medical images. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2017 , 5, 287-296	0.9	1
125	Three-dimensional transverse vibration of microtubules. <i>Journal of Applied Physics</i> , 2017 , 121, 234301	2.5	9
124	Modelling accidental hypothermia effects on a human body under different pathophysiological conditions. <i>Medical and Biological Engineering and Computing</i> , 2017 , 55, 2155-2167	3.1	6
123	Heat and fluid flow in electro-osmotically driven systems. <i>Energy Procedia</i> , 2017 , 126, 91-98	2.3	1
122	A novel method for non-invasively detecting the severity and location of aortic aneurysms. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017 , 16, 1225-1242	3.8	22
121	Effectiveness of flow obstructions in enhancing electro-osmotic flow. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	3
120	A novel modelling approach to energy transport in a respiratory system. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017 , 33, e2854	2.6	2
119	A dual time stepping approach to eliminate first order error in fractional step methods for incompressible flows. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016 , 26, 556-570	4.5	2
118	An advanced computational bioheat transfer model for a human body with an embedded systemic circulation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016 , 15, 1173-90	3.8	17
117	A comparative study of fractional step method in its quasi-implicit, semi-implicit and fully-explicit forms for incompressible flows. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016 , 26, 595-623	4.5	20
116	Synergy Between Intercellular Communication and Intracellular Ca(2+) Handling in Arrhythmogenesis. <i>Annals of Biomedical Engineering</i> , 2015 , 43, 1614-25	4.7	7
115	One-Dimensional Modelling of the Coronary Circulation. Application to Noninvasive Quantification of Fractional Flow Reserve (FFR). <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2015 , 137-155	0.3	8
114	A Robust Finite Element Modeling Approach to Conjugate Heat Transfer in Flexible Elastic Tubes and Tube Networks. <i>Numerical Heat Transfer; Part A: Applications</i> , 2015 , 67, 513-530	2.3	11
113	A benchmark study of numerical schemes for one-dimensional arterial blood flow modelling. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2015 , 31, e02732	2.6	107
112	A multidimensional dynamic quantification tool for the mitral valve. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2015 , 21, 481-7	1.8	12
111	An Extended Computational Framework to Study Arterial Vasomotion and Its Links to Vascular Disease. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2015 , 129-144	0.3	2
110	Incompressible Non-Newtonian Flows 2014 , 163-194		1
109	Incompressible Newtonian Laminar Flows 2014 , 127-161		1

108	Free Surface and Buoyancy Driven Flows 2014 , 195-224		1
107	Short Waves 2014 , 389-421		
106	Biofluid Dynamics 2014 , 451-484		27
105	Compressible High-Speed Gas Flow 2014 , 225-281		
104	Segmentation of biomedical images using active contour model with robust image feature and shape prior. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2014 , 30, 232-48	2.6	16
103	Generalized Flow and Heat Transfer in Porous Media 2014 , 309-326		
102	Convection-Dominated Problems: Finite Element Approximations to the Convection-Diffusion-Reaction Equation 2014 , 31-85		
101	The Characteristic-Based Split (CBS) Algorithm: A General Procedure for Compressible and Incompressible Flow 2014 , 87-125		
100	Introduction to the Equations of Fluid Dynamics and the Finite Element Approximation 2014 , 1-29		3
99	Turbulent Flows 2014 , 283-308		2
98	Artificial compressibility based CBS solutions for double diffusive natural convection in cavities. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013 , 23, 205-225	4.5	24
97	Flow-induced ATP release in patient-specific arterial geometries--a comparative study of computational models. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013 , 29, 1038-56	2.6	8
96	A numerical study of vortex shedding from a circular cylinder vibrating in the in-line direction. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013 , 23, 1449-1462	4.5	7
95	An artificial compressibility based fractional step method for solving time dependent incompressible flow equations. Temporal accuracy and similarity with a monolithic method. <i>Computational Mechanics</i> , 2013 , 51, 255-260	4	9
94	Image Gradient Based Level Set Methods in 2D and 3D. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2013 , 101-120	0.3	1
93	A hierarchical mesh refinement technique for global 3-D spherical mantle convection modelling. <i>Geoscientific Model Development</i> , 2013 , 6, 1095-1107	6.3	28
92	Aortic Aneurysms: OSR, EVAR, Stent-Grafts, Migration and Endoleak. Current State of the Art and Analysis. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2013 , 63-92	0.5	1
91	Segmenting Carotid in CT Using Geometric Potential Field Deformable Model. <i>Springer Proceedings in Mathematics and Statistics</i> , 2013 , 149-162	0.2	

90	Efficient Geometrical Potential Force Computation for Deformable Model Segmentation. <i>Lecture Notes in Computer Science</i> , 2013 , 104-113	0.9	
89	Semi-automatic surface and volume mesh generation for subject-specific biomedical geometries. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2012 , 28, 133-57	2.6	15
88	An improved baseline model for a human arterial network to study the impact of aneurysms on pressure-flow waveforms. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2012 , 28, 1224-46	2.6	27
87	Accelerating incompressible flow calculations using a quasi-implicit scheme: local and dual time stepping approaches. <i>Computational Mechanics</i> , 2012 , 50, 687-693	4	12
86	Forced convection heat transfer within a moderately-stenosed, patient-specific carotid bifurcation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2012 , 22, 1120-1134	4.5	12
85	Numerical Prediction of Heat Transfer Patterns in a Subject-Specific Human Upper Airway. <i>Journal of Heat Transfer</i> , 2012 , 134,	1.8	7
84	Scan-Based Flow Modelling in Human Upper Airways. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2011 , 241-280	0.5	
83	Geometrically induced force interaction for three-dimensional deformable models. <i>IEEE Transactions on Image Processing</i> , 2011 , 20, 1373-87	8.7	23
82	Computational flow studies in a subject-specific human upper airway using a one-equation turbulence model. Influence of the nasal cavity. <i>International Journal for Numerical Methods in Engineering</i> , 2011 , 87, 96-114	2.4	14
81	Non-Newtonian blood flow study in a model cavopulmonary vascular system. <i>International Journal for Numerical Methods in Fluids</i> , 2011 , 66, 269-283	1.9	9
80	Patient-specific blood flow simulation through an aneurysmal thoracic aorta with a folded proximal neck. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011 , 27, 1167-1184	2.6	12
79	Modelling pipeline for subject-specific arterial blood flow—a review. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011 , 27, 1868-1910	2.6	31
78	Influences of domain extensions to a moderately stenosed patient-specific carotid bifurcation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2011 , 21, 952-979	4.5	5
77	Level set segmentation with robust image gradient energy and statistical shape prior 2011 ,		6
76	Automatic IVUS media-adventitia border extraction using double interface graph cut segmentation 2011 ,		5
75	A novel single domain approach for numerical modelling solid oxide fuel cells. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2010 , 20, 587-612	4.5	15
74	Wall distance calculation using the Eikonal/Hamilton-Jacobi equations on unstructured meshes. <i>Engineering Computations</i> , 2010 , 27, 645-657	1.4	9
73	An experimental study on an electro-osmotic flow-based silicon heat spreader. <i>Microfluidics and Nanofluidics</i> , 2010 , 9, 787-795	2.8	16

72	Application of a locally conservative Galerkin (LCG) method for modelling blood flow through a patient-specific carotid bifurcation. <i>International Journal for Numerical Methods in Fluids</i> , 2010 , 64, 1274-1295	1.9	21
71	An investigation of pulsatile flow in a model cavo-pulmonary vascular system. <i>Communications in Numerical Methods in Engineering</i> , 2009 , 25, 1061-1083		5
70	Artificial Compressibility-Based CBS Scheme for the Solution of the Generalized Porous Medium Model. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2009 , 55, 196-218	1.3	19
69	Numerical Investigation of an Electroosmotic Flow (EOF)Based Microcooling System. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2009 , 56, 275-292	1.3	7
68	Geometric Potential Force for the Deformable Model 2009 ,		8
67	Finite element modelling of electro-osmotic flows on unstructured meshes. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2008 , 18, 67-82	4.5	11
66	A robust model and numerical approach for solving solid oxide fuel cell (SOFC) problems. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2008 , 18, 811-834	4.5	24
65	A unified fractional step method for compressible and incompressible flows, heat transfer and incompressible solid mechanics. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2008 , 18, 111-130	4.5	10
64	A short note on Joule heating in electro-osmotic flows. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2008 , 18, 919-931	4.5	8
63	Adaptive finite element methods in geodynamics. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2008 , 18, 1015-1035	4.5	16
62	Electro-osmotic flow in microchannels. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2008 , 222, 753-759	1.3	8
61	An element-wise, locally conservative Galerkin (LCG) method for solving diffusion and convection-diffusion problems. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 73, 642-664	2.4	17
60	An implicit-explicit solution method for electro-osmotic flow through three-dimensional micro-channels. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 73, 1137-1152	2.4	10
59	A 1D arterial blood flow model incorporating ventricular pressure, aortic valve and regional coronary flow using the locally conservative Galerkin (LCG) method. <i>Communications in Numerical Methods in Engineering</i> , 2008 , 24, 367-417		158
58	The characteristic-based split (CBS) scheme for viscoelastic flow past a circular cylinder. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 57, 157-176	1.9	12
57	The locally conservative Galerkin (LCG) method for solving the incompressible Navier-Stokes equations. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 57, 1771-1792	1.9	18
56	Steady flow through a realistic human upper airway geometry. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 57, 631-651	1.9	47
55	An artificial-dissipation-based fractional step scheme for upper-convected Maxwell (UCM) fluid flow past a circular cylinder. <i>International Journal for Numerical Methods in Fluids</i> , 2008 , 57, 1171-1187	1.9	5

54	Electro-osmotic Flow Based Cooling System For Microprocessors 2007 ,		1
53	Investigations into the applicability of adaptive finite element methods to two-dimensional infinite Prandtl number thermal and thermochemical convection. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	27
52	Hybrid LES [Review and assessment. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2007 , 32, 501-511	1	3
51	Numerical comparison of CBS and SGS as stabilization techniques for the incompressible Navier-Stokes equations. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 66, 1672-1689 ^{2.4}	2.4	21
50	The Characteristic-Based Split (CBS) scheme— unified approach to fluid dynamics. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 66, 1514-1546	2.4	99
49	Explicit and semi-implicit CBS procedures for incompressible viscous flows. <i>International Journal for Numerical Methods in Engineering</i> , 2006 , 66, 1618-1640	2.4	48
48	Laminar and turbulent flow calculations through a model human upper airway using unstructured meshes. <i>Communications in Numerical Methods in Engineering</i> , 2006 , 23, 1057-1069		31
47	A Matrix Free Fractional Step Method for Static and Dynamic Incompressible Solid Mechanics. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2006 , 7, 369-380 ^{0.7}	0.7	14
46	A Numerical Model for Solid Oxide Fuel Cells 2006 , 293		
45	An artificial compressibility based characteristic based split (CBS) scheme for steady and unsteady turbulent incompressible flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 2961-2982 ^{5.7} ^{4.8}	5.7	48
44	Analysis of an explicit and matrix free fractional step method for incompressible flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 5537-5551	5.7	49
43	Convection in Porous Media 2005 , 240-264		0
42	Convection Heat Transfer 2005 , 173-239		
41	Some Examples of Fluid Flow and Heat Transfer Problems 2005 , 265-298		
40	Steady and unsteady incompressible flow in a double driven cavity using the artificial compressibility (AC)-based characteristic-based split (CBS) scheme. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 63, 380-397	2.4	24
39	An arbitrary Lagrangian Eulerian (ALE) formulation for free surface flows using the characteristic-based split (CBS) scheme. <i>International Journal for Numerical Methods in Fluids</i> , 2005 , 48, 1415-1428	1.9	57
38	Influences of element size and variable smoothing on inviscid compressible flow solution. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2005 , 15, 420-428	4.5	14
37	Forced convection heat transfer from solder balls on a printed circuit board using the characteristic based split (CBS) scheme. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2005 , 15, 73-95	4.5	13

36 The Finite Element Method **2005**, 38-101

35 **2004**, 287

34 A SIMPLE LOCALLY CONSERVATIVE GALERKIN (LCG) FINITE-ELEMENT METHOD FOR TRANSIENT CONSERVATION EQUATIONS. *Numerical Heat Transfer, Part B: Fundamentals*, **2004**, 46, 357-370 1.3 21

33 Three-dimensional incompressible flow calculations using the characteristic based split (CBS) scheme. *International Journal for Numerical Methods in Fluids*, **2004**, 44, 1207-1229 1.9 61

32 A fully explicit characteristic based split (CBS) scheme for viscoelastic flow calculations. *International Journal for Numerical Methods in Engineering*, **2004**, 60, 949-978 2.4 35

31 Microscopic and macroscopic approach for natural convection in enclosures filled with fluid saturated porous medium. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2003**, 13, 862-886 4.5 33

30 An efficient artificial compressibility (AC) scheme based on the characteristic based split (CBS) method for incompressible flows. *International Journal for Numerical Methods in Engineering*, **2003**, 56, 1815-1845 2.4 145

29 The Characteristic-Based-Split Method for 3D Incompressible Flows on Unstructured Grids **2003**, 381-386

28 On boundary conditions of the characteristic based split (CBS) algorithm for fluid dynamics. *International Journal for Numerical Methods in Engineering*, **2002**, 54, 523-536 2.4 24

27 An improved unsteady, unstructured, artificial compressibility, finite volume scheme for viscous incompressible flows: Part II. Application. *International Journal for Numerical Methods in Engineering*, **2002**, 54, 715-729 2.4 47

26 An improved unsteady, unstructured, artificial compressibility, finite volume scheme for viscous incompressible flows: Part I. Theory and implementation. *International Journal for Numerical Methods in Engineering*, **2002**, 54, 695-714 2.4 97

25 Finite element modelling of flow, heat and mass transfer in fluid saturated porous media. *Archives of Computational Methods in Engineering*, **2002**, 9, 3-42 7.8 34

24 An adaptive remeshing technique for laminar natural convection problems. *Heat and Mass Transfer*, **2002**, 38, 243-250 2.2 5

23 A comparative study on the performance of two time stepping schemes for convection in a fluid saturated porous medium. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2001**, 11, 308-328 4.5 9

22 Natural convection in porous medium-fluid interface problems - A finite element analysis by using the CBS procedure. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2001**, 11, 473-490 4.5 43

21 Adaptive mesh generation for fluid mechanics problems. *International Journal for Numerical Methods in Engineering*, **2000**, 47, 629-662 2.4 37

20 On stabilization of the CBS algorithm: Internal and external time steps. *International Journal for Numerical Methods in Engineering*, **2000**, 48, 875-880 2.4 25

19 Non-Darcy natural convection in a hydrodynamically and thermally anisotropic porous medium. *Computer Methods in Applied Mechanics and Engineering*, **2000**, 188, 413-430 5.7 34

18	An adaptive finite element procedure for solidification problems. <i>Heat and Mass Transfer</i> , 2000 , 36, 223-229	9
17	Finite element modeling of a leaking third component migration from a heat source buried into a fluid saturated porous medium. <i>Mathematical and Computer Modelling</i> , 1999 , 29, 27-39	10
16	Numerical investigation of buoyancy driven flow in a fluid saturated non-Darcian porous medium. <i>International Journal of Heat and Mass Transfer</i> , 1999 , 42, 1205-1215	4.9 29
15	The characteristic-based-split procedure: an efficient and accurate algorithm for fluid problems. <i>International Journal for Numerical Methods in Fluids</i> , 1999 , 31, 359-392	1.9 149
14	Buoyancy driven flow in a non-Darcian, fluid-saturated porous enclosure subjected to uniform heat flux—numerical study. <i>Communications in Numerical Methods in Engineering</i> , 1999 , 15, 765-776	14
13	Shock capturing viscosities for the general fluid mechanics algorithm 1998 , 28, 1325-1353	32
12	Finite element analysis of pollutant transport in water-saturated soil. <i>Communications in Numerical Methods in Engineering</i> , 1998 , 14, 241-251	6
11	Effect of porosity on natural convective heat transfer in a fluid saturated porous medium. <i>International Journal of Heat and Fluid Flow</i> , 1998 , 19, 56-58	2.4 34
10	A new semi-implicit time stepping procedure for buoyancy driven flow in a fluid saturated porous medium. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1998 , 165, 147-154	5.7 58
9	Experimental investigation of the performance of a counter-flow, packed-bed mechanical cooling tower. <i>Energy</i> , 1998 , 23, 943-947	7.9 47
8	Characteristic-based-split (CBS) algorithm for incompressible flow problems with heat transfer. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1998 , 8, 969-990	4.5 71
7	Finite element analysis of transient natural convection in an odd-shaped enclosure. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1998 , 8, 199-216	4.5 31
6	Transient analysis of a cylindrical solar water heater. <i>Energy Conversion and Management</i> , 1997 , 38, 1833-1840	8
5	Non-Darcy double-diffusive natural convection in axisymmetric fluid saturated porous cavities. <i>Heat and Mass Transfer</i> , 1997 , 32, 427-433	2.2 29
4	Double-diffusive natural convection in a fluid saturated porous cavity with a freely convecting wall. <i>International Communications in Heat and Mass Transfer</i> , 1997 , 24, 1121-1130	5.8 33
3	Natural convective heat transfer in a fluid saturated variable porosity medium. <i>International Journal of Heat and Mass Transfer</i> , 1997 , 40, 3955-3967	4.9 410
2	DOUBLE-DIFFUSIVE NATURAL CONVECTION IN AN ENCLOSURE FILLED WITH FLUID-SATURATED POROUS MEDIUM: A GENERALIZED NON-DARCY APPROACH. <i>Numerical Heat Transfer; Part A: Applications</i> , 1996 , 30, 413-426	2.3 82
1	Convective heat transfer in axisymmetric porous bodies. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 1995 , 5, 829-837	4.5 32

