Yiannis A Ventikos

List of Publications by Year
in descending order

166 papers	4,257 citations	109137 35 h-index	143772 57 g-index
173 all docs	173 docs citations	173 times ranked	4266 citing authors

#	Article	IF	Citations
1	A sharp-interface model for grid-resolved cavitating flows. International Journal of Multiphase Flow, 2022, 149, 103968.	1.6	1
2	A hybrid computational aeroacoustic model with application to turbulent flows over foil and bluff bodies. Journal of Sound and Vibration, 2022, 526, 116773.	2.1	4
3	Should friction losses be included in an electromechanical model of a bioinspired flapping-wing micro aerial vehicle to estimate the flight energetic requirements?. Bioinspiration and Biomimetics, 2022, 17, 036011.	1.5	1
4	Molecular dynamics simulation: A new way to understand the functionality of the endothelial glycocalyx. Current Opinion in Structural Biology, 2022, 73, 102330.	2.6	5
5	A Computational Framework to Predict Calvarial Growth: Optimising Management of Sagittal Craniosynostosis. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	2.0	6
6	A simple ghost fluid method for compressible multicomponent flows with capillary effects. Journal of Computational Physics, 2021, 424, 109861.	1.9	4
7	Multi-stage learning for segmentation of aortic dissections using a prior aortic anatomy simplification. Medical Image Analysis, 2021, 69, 101931.	7.0	28
8	Using Multicompartmental Poroelasticity to Explore Brain Biomechanics and Cerebral Diseases. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2021, , 151-163.	0.2	0
9	Numerical and experimental investigation into the dynamics of a bubble-free-surface system. Physical Review Fluids, 2021, 6, .	1.0	15
10	Wing-tip vortex dynamics at moderate Reynolds numbers. Physics of Fluids, 2021, 33, 035111.	1.6	11
11	Thrombinâ€“Fibrinogen In Vitro Flow Model of Thrombus Growth in Cerebral Aneurysms. TH Open, 2021, 05, e155-e162.	0.7	3
12	Using Sensitivity Analysis to Develop a Validated Computational Model of Post-operative Calvarial Growth in Sagittal Craniosynostosis. Frontiers in Cell and Developmental Biology, 2021, 9, 621249.	1.8	4
13	Understanding the Role of Endothelial Glycocalyx in Mechanotransduction via Computational Simulation: A Mini Review. Frontiers in Cell and Developmental Biology, 2021, 9, 732815.	1.8	4
14	Virtual Flow-T Stenting for Two Patient-Specific Bifurcation Aneurysms. Frontiers in Neurology, 2021, 12, 726980.	1.1	1
15	Membrane Deformation of Endothelial Surface Layer Interspersed with Syndecan-4: A Molecular Dynamics Study. Annals of Biomedical Engineering, 2020, 48, 357-366.	1.3	5
16	Principal mode of Syndecanâ€4 mechanotransduction for the endothelial glycocalyx is a scissorâ€like dimer motion. Acta Physiologica, 2020, 228, e13376.	1.8	22
17	A multiple-network poroelastic model for biological systems and application to subject-specific modelling of cerebral fluid transport. International Journal of Engineering Science, 2020, 147, 103204.	2.7	26
18	A simplified approach for simulations of multidimensional compressible multicomponent flows: The grid-aligned ghost fluid method. Journal of Computational Physics, 2020, 405, 109129.	1.9	13

#	Article	IF	Citations
19	Finite element evaluations of the mechanical properties of polycaprolactone/hydroxyapatite scaffolds by direct ink writing: Effects of pore geometry. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103665.	1.5	39
20	Exploring neurodegenerative disorders using a novel integrated model of cerebral transport: Initial results. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 1223-1234.	1.0	11
21	Sodium ion transport across the endothelial glycocalyx layer under electric field conditions: A molecular dynamics study. Journal of Chemical Physics, 2020, 153, 105102.	1.2	3
22	Energy focusing in shock-collapsed bubble arrays. Journal of Fluid Mechanics, 2020, 900, .	1.4	13
23	On the Validation of a Multiple-Network Poroelastic Model Using Arterial Spin Labeling MRI Data. Frontiers in Computational Neuroscience, 2019, 13, 60.	1.2	17
24	A Virtual Comparison of the eCLIPs Device and Conventional Flow-Diverters as Treatment for Cerebral Bifurcation Aneurysms. Cardiovascular Engineering and Technology, 2019, 10, 508-519.	0.7	17
25	Fluid Viscosity and Corresponding Effects on Fluid flow, Velocity Magnitude and Electric Field Distribution in Electrohydrodynamic Jetting.. Journal of Physics: Conference Series, 2019, 1322, 012008.	0.3	1
26	Characterizing and Modeling Bone Formation during Mouse Calvarial Development. Physical Review Letters, 2019, 122, 048103.	2.9	16
27	Fluidâ€“structure interaction for highly complex, statistically defined, biological media: Homogenisation and a 3D multi-compartmental poroelastic model for brain biomechanics. Journal of Fluids and Structures, 2019, 91, 102641.	1.5	24
28	Effect of the Mixing Region Geometry and Collector Distance on Microbubble Formation in a Microfluidic Device Coupled with acâ€“dc Electric Fields. Langmuir, 2019, 35, 10052-10060.	1.6	9
29	Microvascular ion transport through endothelial glycocalyx layer: new mechanism and improved Starling principle. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H104-H113.	1.5	9
30	General Computational Methodology for Modeling Electrohydrodynamic Flows: Prediction and Optimization Capability for the Generation of Bubbles and Fibers. Langmuir, 2019, 35, 10203-10212.	1.6	18
31	Disturbed flow induces a sustained, stochastic NF-Î°B activation which may support intracranial aneurysm growth in vivo. Scientific Reports, 2019, 9, 4738.	1.6	25
32	Understanding endothelial glycocalyx function under flow shear stress from a molecular perspective. Biorheology, 2019, 56, 89-100.	1.2	5
33	Boundary layer transition over a foil using direct numerical simulation and large eddy simulation. Physics of Fluids, 2019, 31, .	1.6	16
34	Highly integrated workflows for exploring cardiovascular conditions: Exemplars of precision medicine in Alzheimer's disease and aortic dissection. Morphologie, 2019, 103, 148-160.	0.5	3
35	Regimes of Flow over Complex Structures of Endothelial Glycocalyx: A Molecular Dynamics Simulation Study. Scientific Reports, 2018, 8, 5732.	1.6	13
36	Large-scale molecular dynamics simulation of flow under complex structure of endothelial glycocalyx. Computers and Fluids, 2018, 173, 140-146.	1.3	19

#	Article	IF	Citations
37	Subject-specific multi-poroelastic model for exploring the risk factors associated with the early stages of Alzheimer's disease. Interface Focus, 2018, 8, 20170019.	1.5	49
38	Oligosaccharide model of the vascular endothelial glycocalyx in physiological flow. Microfluidics and Nanofluidics, 2018, 22, 21.	1.0	14
39	Novel Preparation of Monodisperse Microbubbles by Integrating Oscillating Electric Fields with Microfluidics. Micromachines, 2018, 9, 497.	1.4	12
40	Reducing Salt Intake and Exercising Regularly: Implications From Molecular Dynamics Simulations of Endothelial Glycocalyx. Frontiers in Physiology, 2018, 9, 1667.	1.3	8
41	Thrombosis in Cerebral Aneurysms and the Computational Modeling Thereof: A Review. Frontiers in Physiology, 2018, 9, 306.	1.3	39
42	Computational modeling of clot development in patientâ€specific cerebral aneurysm cases: reply. Journal of Thrombosis and Haemostasis, 2017, 15, 397-398.	1.9	1
43	Characterizing shock waves in hydrogel using high speed imaging and a fiber-optic probe hydrophone. Physics of Fluids, 2017, 29, 057101.	1.6	8
44	Response to letter to the editor concerning â€œA fully dynamic multi-compartmental poroelastic system: Application to aqueductal stenosisâ€• Journal of Biomechanics, 2017, 58, 243-246.	0.9	6
45	Large-scale molecular dynamics simulation of coupled dynamics of flow and glycocalyx: towards understanding atomic events on an endothelial cell surface. Journal of the Royal Society Interface, 2017, 14, 20170780.	1.5	22
46	Virtual flow-diverter treatment planning: The effect of device placement on bifurcation aneurysm haemodynamics. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 432-443.	1.0	10
47	Porcine In Vivo Validation of a Virtual Contrast Model: The Influence of Contrast Agent Properties and Vessel Flow Rates. American Journal of Neuroradiology, 2016, 37, 2304-2309.	1.2	0
48	Investigating cerebral oedema using poroelasticity. Medical Engineering and Physics, 2016, 38, 48-57.	0.8	43
49	Computational modelling of clot development in patientâ€specific cerebral aneurysm cases. Journal of Thrombosis and Haemostasis, 2016, 14, 262-272.	1.9	30
50	Modeling asymmetric cavity collapse with plasma equations of state. Physical Review E, 2016, 93, 053105.	0.8	10
51	Commentary on â€œComputational Study of Anatomical Risk Factors in Idealized Models of Type B Aortic Dissectionâ€• European Journal of Vascular and Endovascular Surgery, 2016, 52, 746.	0.8	2
52	Morphomechanical Innovation Drives Explosive Seed Dispersal. Cell, 2016, 166, 222-233.	13.5	128
53	A fully dynamic multi-compartmental poroelastic system: Application to aqueductal stenosis. Journal of Biomechanics, 2016, 49, 2306-2312.	0.9	30
54	A computational analysis of the impact of mass transport and shear on three-dimensional stem cell cultures in perfused micro-bioreactors. Chinese Journal of Chemical Engineering, 2016, 24, 163-174.	1.7	7

#	Article	IF	Citations
55	Towards Predicting Patient-Specific Flow-Diverter Treatment Outcomes for Bifurcation Aneurysms: From Implantation Rehearsal to Virtual Angiograms. Annals of Biomedical Engineering, 2016, 44, 99-111.	1.3	11
56	Reproducing the Hemoglobin Saturation Profile, a Marker of the Blood Oxygenation Level Dependent (BOLD) fMRI Effect, at the Microscopic Level. PLoS ONE, 2016, 11, e0149935.	1.1	3
57	RELATIVE ROLES OF MECHANICS AND BIOCHEMISTRY IN THE INITIATION AND PROGRESSION OF CEREBRAL ANEURYSM THROMBOSIS. , 2016, , .		0
58	Development of a pneumatically driven active cover lid for multi-well microplates for use in perfusion three-dimensional cell culture. Scientific Reports, 2015, 5, 18352.	1.6	12
59	Synergistic activity of polarised osteoblasts inside condensations cause their differentiation. Scientific Reports, 2015, 5, 11838.	1.6	16
60	Cerebral oxygenation and optimal vascular brain organization. Journal of the Royal Society Interface, 2015, 12, 20150245.	1.5	24
61	Numerical and experimental study of shock-driven cavity collapse. Journal of Physics: Conference Series, 2015, 656, 012011.	0.3	0
62	Investigating biocomplexity through the agent-based paradigm. Briefings in Bioinformatics, 2015, 16, 137-152.	3.2	32
63	Dynamic reciprocity revisited. Journal of Theoretical Biology, 2015, 370, 205-208.	0.8	12
64	Transitional flow in aneurysms and the computation of haemodynamic parameters. Journal of the Royal Society Interface, 2015, 12, 20141394.	1.5	52
65	Comparison and calibration of a real-time virtual stenting algorithm using Finite Element Analysis and Genetic Algorithms. Computer Methods in Applied Mechanics and Engineering, 2015, 293, 462-480.	3.4	26
66	Computational modelling of the interaction of shock waves with multiple gas-filled bubbles in a liquid. Physics of Fluids, 2015, 27, .	1.6	43
67	On the Genealogy of Tissue Engineering and Regenerative Medicine. Tissue Engineering - Part B: Reviews, 2015, 21, 203-217.	2.5	34
68	Which Spring is the Best? Comparison of Methods for Virtual Stenting. IEEE Transactions on Biomedical Engineering, 2014, 61, 1998-2010.	2.5	24
69	The â€˜Sphereâ€™: A Dedicated Bifurcation Aneurysm Flow-Diverter Device. Cardiovascular Engineering and Technology, 2014, 5, 334-347.	0.7	15
70	Personalizing flowâ€diverter intervention for cerebral aneurysms: from computational hemodynamics to biochemical modeling. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 1387-1407.	1.0	36
71	Modelling the influence of endothelial heterogeneity on the progression of arterial disease: application to abdominal aortic aneurysm evolution. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 563-586.	1.0	14
72	See-saw rocking: an in vitro model for mechanotransduction research. Journal of the Royal Society Interface, 2014, 11, 20140330.	1.5	12

#	Article	IF	Citations
73	Modelling volumetric growth in a thick walled fibre reinforced artery. Journal of the Mechanics and Physics of Solids, 2014, 73, 134-150.	2.3	26
74	Modelling the Evolution of Cerebral Aneurysms: Biomechanics, Mechanobiology and Multiscale Modelling. Procedia IUTAM, 2014, 10, 396-409.	1.2	13
75	An approach to the symbolic representation of brain arteriovenous malformations for management and treatment planning. Neuroradiology, 2014, 56, 195-209.	1.1	4
76	Chemosignalling, mechanotransduction and ciliary behaviour in the embryonic node: Computational evaluation of competing theories. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 465-476.	1.0	4
77	Modifiable Lifestyle Factors in Dementia: A Systematic Review of Longitudinal Observational Cohort Studies. Journal of Alzheimer's Disease, 2014, 42, 119-135.	1.2	125
78	Resolving the Issue of Resolution. American Journal of Neuroradiology, 2014, 35, 544-545.	1.2	9
79	Intracranial Aneurysms: Modeling Inception and Enlargement. , 2013, , 161-173.		0
80	Modelling of the physiological response of the brain to ischaemic stroke. Interface Focus, 2013, 3, 20120079.	1.5	12
81	A patient-specific study of type-B aortic dissection: evaluation of true-false lumen blood exchange. BioMedical Engineering OnLine, 2013, 12, 65.	1.3	52
82	Investigating the Influence of Haemodynamic Stimuli on Intracranial Aneurysm Inception. Annals of Biomedical Engineering, 2013, 41, 1492-1504.	1.3	39
83	A longitudinal study of Type-B aortic dissection and endovascular repair scenarios: Computational analyses. Medical Engineering and Physics, 2013, 35, 1321-1330.	0.8	66
84	A preliminary study of dynein-driven ciliary motility: A computational model. , 2013, , .		0
85	A multiscale perspective on the constructal characteristics of human mobility. Physics of Life Reviews, 2013, 10, 195-196.	1.5	1
86	Percussoluminescence. Proceedings of Meetings on Acoustics, 2013, , .	0.3	0
87	A Preliminary Study of Fast Virtual Stent-Graft Deployment: Application to Stanford Type B Aortic Dissection. International Journal of Advanced Robotic Systems, 2013, 10, 154.	1.3	8
88	Experimental characterisation of light emission during shock-driven cavity collapse. Proceedings of Meetings on Acoustics, 2013, , .	0.3	1
89	A Multi-Paradigm Modeling Framework to Simulate Dynamic Reciprocity in a Bioreactor. PLoS ONE, 2013, 8, e59671.	1.1	25
90	Simulation of warm dense matter in intense bubble collapse. Proceedings of Meetings on Acoustics, 2013, , .	0.3	3

#	Article	IF	Citations
91	Multicompartmental Poroelasticity as a Platform for the Integrative Modeling of Water Transport in the Brain. , 2013, , 305-316.		11
92	Exploring the Efficacy of Endoscopic Ventriculostomy for Hydrocephalus Treatment via a Multicompartmental Poroelastic Model of CSF Transport: A Computational Perspective. PLoS ONE, 2013, 8, e84577.	1.1	25
93	Acoustic particle manipulation in a 40 kHz quarter-wavelength standing wave with an air boundary. Journal of the Acoustical Society of America, 2012, 131, 3627-3637.	0.5	0
94	Impulsively actuated jets from thin liquid films for high-resolution printing applications. Journal of Fluid Mechanics, 2012, 709, 341-370.	1.4	77
95	Interaction of a strong shockwave with a gas bubble in a liquid medium: a numerical study. Journal of Fluid Mechanics, 2012, 701, 59-97.	1.4	110
96	Computational modelling for the embolization of brain arteriovenous malformations. Medical Engineering and Physics, 2012, 34, 873-881.	0.8	16
97	Modelling Cerebral Aneurysm Evolution. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2011, , 373-399.	0.7	4
98	Biological Fluid Mechanics. , 2011, , 203-216.		1
99	Patient-Specific Modelling of Intracranial Aneurysm Evolution. , 2011, , .		0
100	The importance of the constructal framework in understanding and eventually replicating structure in tissue. Physics of Life Reviews, 2011, 8, 241-242.	1.5	16
101	CFD Modeling of an Ultrasonic Separator for the Removal of Lipid Particles From Pericardial Suction Blood. IEEE Transactions on Biomedical Engineering, 2011, 58, 282-290.	2.5	9
102	Towards Treatment Planning for the Embolization of Arteriovenous Malformations of the Brain: Intranidal Hemodynamics Modeling. IEEE Transactions on Biomedical Engineering, 2011, 58, 1994-2001.	2.5	11
103	Modelling evolution and the evolving mechanical environment of saccular cerebral aneurysms. Biomechanics and Modeling in Mechanobiology, 2011, 10, 109-132.	1.4	51
104	Quantification and significance of fluid shear stress field in biaxial cell stretching device. Biomechanics and Modeling in Mechanobiology, 2011, 10, 559-564.	1.4	11
105	Ciliary behaviour and mechano-transduction in the embryonic node: Computational testing of hypotheses. Medical Engineering and Physics, 2011, 33, 857-867.	0.8	25
106	Multi-scale interaction of particulate flow and the artery wall. Medical Engineering and Physics, 2011, 33, 840-848.	0.8	7
107	Cerebral water transport using multiple-network poroelastic theory: application to normal pressure hydrocephalus. Journal of Fluid Mechanics, 2011, 667, 188-215.	1.4	99
108	Biological Fluid Mechanics: Integrative and Multiscale Computational Modeling. , 2011, , 18-31.		0

#	Article	IF	Citations
109	The Role of Biofluid Mechanics in the Assessment of Clinical and Pathological Observations. Annals of Biomedical Engineering, 2010, 38, 1216-1224.	1.3	16
110	Rest versus Exercise Hemodynamics for Middle Cerebral Artery Aneurysms: A Computational Study. American Journal of Neuroradiology, 2010, 31, 317-323.	1.2	26
111	Modelling Normal Pressure Hydrocephalus as a â€˜Two-Hitâ€™ Disease Using Multiple-Network Poroelastic Theory. , 2010, , .		0
112	Is Normal Pressure Hydrocephalus more than a mechanical disruption to CSF flow?. , 2010, 2010, 235-8.		0
113	Modelling the growth and stabilization of cerebral aneurysms. Mathematical Medicine and Biology, 2009, 26, 133-164.	0.8	54
114	CFD and PTV Steady Flow Investigation in an Anatomically Accurate Abdominal Aortic Aneurysm. Journal of Biomechanical Engineering, 2009, 131, 011008.	0.6	52
115	Coupling the Hemodynamic Environment to the Evolution of Cerebral Aneurysms: Computational Framework and Numerical Examples. Journal of Biomechanical Engineering, 2009, 131, 101003.	0.6	67
116	Risk evaluation and interventional planning for cerebral aneurysms: computational models for growth, coiling and thrombosis. International Journal of Computational Fluid Dynamics, 2009, 23, 595-607.	0.5	5
117	Modelling evolution of saccular cerebral aneurysms. Journal of Strain Analysis for Engineering Design, 2009, 44, 375-389.	1.0	19
118	Coupling Poroelasticity and CFD for Cerebrospinal Fluid Hydrodynamics. IEEE Transactions on Biomedical Engineering, 2009, 56, 1644-1651.	2.5	56
119	Modelling of experimentally created partial-thickness human skin burns and subsequent therapeutic cooling: A new measure for cooling effectiveness. Medical Engineering and Physics, 2009, 31, 624-631.	0.8	17
120	The active and passive ciliary motion in the embryo node: A computational fluid dynamics model. Journal of Biomechanics, 2009, 42, 210-216.	0.9	20
121	Modelling the mechanical response of elastin for arterial tissue. Journal of Biomechanics, 2009, 42, 1320-1325.	0.9	70
122	Computational modelling for cerebral aneurysms: risk evaluation and interventional planning. British Journal of Radiology, 2009, 82, S62-S71.	1.0	18
123	An integrative approach to cerebrovascular disease healthcare: IT for cerebral aneurysms. , 2009, , .		0
124	Coupling the Haemodynamic Environment to the Evolution of Cerebral Aneurysms. , 2009, , .		1
125	Haemodynamic simulation of aneurysm coiling in an anatomically accurate computational fluid dynamics model: technical note. Neuroradiology, 2008, 50, 341-347.	1.1	101
126	Local remeshing for large amplitude grid deformations. Journal of Computational Physics, 2008, 227, 2781-2793.	1.9	7

#	Article	IF	Citations
127	Robotic swarm concept for efficient oil spill confrontation. Journal of Hazardous Materials, 2008, 154, 880-887.	6.5	52
128	The Haemodynamics of Endovascular Aneurysm Treatment: A Computational Modelling Approach for Estimating the Influence of Multiple Coil Deployment. IEEE Transactions on Medical Imaging, 2008, 27, 814-824.	5.4	77
129	Modelling the interaction of haemodynamics and the artery wall: Current status and future prospects. Biomedicine and Pharmacotherapy, 2008, 62, 530-535.	2.5	6
130	Image-based simulation of brain arteriovenous malformation hemodynamics. , 2008, , .		2
131	Dynamic Remeshing for Fluid Structure Interaction: Application to Modelling Aortic Dissection. , 2007, , 461.		0
132	Haemodynamics and wall remodelling of a growing cerebral aneurysm: A computational model. Journal of Biomechanics, 2007, 40, 412-426.	0.9	117
133	Computational investigation of subject-specific cerebrospinal fluid flow in the third ventricle and aqueduct of Sylvius. Journal of Biomechanics, 2007, 40, 1235-1245.	0.9	92
134	On the influence of variation in haemodynamic conditions on the generation and growth of cerebral aneurysms and atherogenesis: A computational model. Journal of Biomechanics, 2007, 40, 3626-3640.	0.9	26
135	THE ACTIVE AND PASSIVE CILIARY MOTION IN THE EMBRYO NODE : A COMPUTATIONAL FLUID DYNAMICS MODEL(1A3 Micro & Nano Biomechanics III). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2007, 2007.3, S22.	0.0	0
136	Three-Dimensional Modeling of Mechanical Forces in the Extracellular Matrix during Epithelial Lumen Formation. Biophysical Journal, 2006, 90, 4380-4391.	0.2	32
137	First stages of the transition to turbulence and control in the incompressible detached flow around a NACA0012 wing. International Journal of Heat and Fluid Flow, 2006, 27, 878-886.	1.1	17
138	Computational Simulation of the Blood Separation Process. Artificial Organs, 2005, 29, 665-674.	1.0	5
139	A Computational Model Combining Vascular Biology and Haemodynamics for Thrombosis Prediction in Anatomically Accurate Cerebral Aneurysms. Food and Bioproducts Processing, 2005, 83, 118-126.	1.8	24
140	Transition to turbulence and control in the incompressible flow around a NACA0012 wing. , 2005, , 533-542.		0
141	Computational Modeling of the Mechanical Behavior of the Cerebrospinal Fluid System. Journal of Biomechanical Engineering, 2005, 127, 264-269.	0.6	55
142	Reconstruction of Cerebrospinal Fluid Flow in the Third Ventricle Based on MRI Data. Lecture Notes in Computer Science, 2005, 8, 786-793.	1.0	13
143	Oscillatory behavior of nanodroplets. Physical Review E, 2004, 70, 011505.	0.8	18
144	Numerical and Experimental Investigation of an Annular Jet Flow With Large Blockage. Journal of Fluids Engineering, Transactions of the ASME, 2004, 126, 375-384.	0.8	49

#	Article	IF	Citations
145	Computational simulation of intracoronary flow based on real coronary geometryâ˜†. European Journal of Cardio-thoracic Surgery, 2004, 26, 248-256.	0.6	73
146	Pulsatile Blood Flow in Anatomically Accurate Vessels with Multiple Aneurysms: A Medical Intervention Planning Application of Computational Haemodynamics. Flow, Turbulence and Combustion, 2003, 71, 333-346.	1.4	31
147	Simulations of flow through open cell metal foams using an idealized periodic cell structure. International Journal of Heat and Fluid Flow, 2003, 24, 825-834.	1.1	269
148	Organized modes and the three-dimensional transition to turbulence in the incompressible flow around a NACA0012 wing. Journal of Fluid Mechanics, 2003, 496, 63-72.	1.4	76
149	Shock wave formation in droplet impact on a rigid surface: lateral liquid motion and multiple wave structure in the contact line region. Journal of Fluid Mechanics, 2003, 490, 1-14.	1.4	57
150	Dual Pulsating or Steady Slot Jet Cooling of a Constant Heat Flux Surface. Journal of Heat Transfer, 2003, 125, 575-586.	1.2	16
151	Wave structure in the contact line region during high speed droplet impact on a surface: Solution of the Riemann problem for the stiffened gas equation of state. Journal of Applied Physics, 2003, 93, 3090-3097.	1.1	31
152	Marangoni and Variable Viscosity Phenomena in Picoliter Size Solder Droplet Deposition. Journal of Heat Transfer, 2003, 125, 365-376.	1.2	11
153	Cardiovascular Haemodynamic Simulations of Anatomically Accurate Coronaries. , 2003, , .		0
154	Anatomically Accurate Haemodynamic Simulations of Abdominal Aortic Aneurysms. , 2003, , .		0
155	The effect of imperfections on the emergence of three-dimensionality in stationary vortex breakdown bubbles. Physics of Fluids, 2002, 14, L13-L16.	1.6	12
156	Marangoni and Variable Viscosity Phenomena in Picoliter Size Solder Droplet Deposition. , 2002, , 15.		1
157	Numerical Investigation of Heat Transfer From a Surface Under the Influence of Two Impinging Pulsating Slot Jets. , 2002, , 15.		0
158	Computational study of high-speed liquid droplet impact. Journal of Applied Physics, 2002, 92, 2821-2828.	1.1	169
159	Residence times and basins of attraction for a realistic right internal carotid artery with two aneurysms. Biorheology, 2002, 39, 387-93.	1.2	19
160	Chaotic advection in three-dimensional stationary vortex-breakdown bubbles: Å¡il'nikov's chaos and the devil's staircase. Journal of Fluid Mechanics, 2001, 444, 257-297.	1.4	77
161	The three-dimensional structure of confined swirling flows with vortex breakdown. Journal of Fluid Mechanics, 2001, 426, 155-175.	1.4	87
162	A numerical method for the simulation of steady and unsteady cavitating flows. Computers and Fluids, 2000, 29, 63-88.	1.3	74

#	Article	IF	Citations
163	A CFD Framework for Environmentally-Friendly Hydroturbines. , 1999, , 1.		1
164	Transition from bubble-type vortex breakdown to columnar vortex in a confined swirling flow. International Journal of Heat and Fluid Flow, 1998, 19, 446-458.	1.1	40
165	Flow Through a Curved Duct Using Nonlinear Two-Equation Turbulence Models. AIAA Journal, 1998, 36, 1256-1262.	1.5	34
166	Flow through a curved duct using nonlinear two-equation turbulence models. AIAA Journal, 1998, 36, 1256-1262.	1.5	1