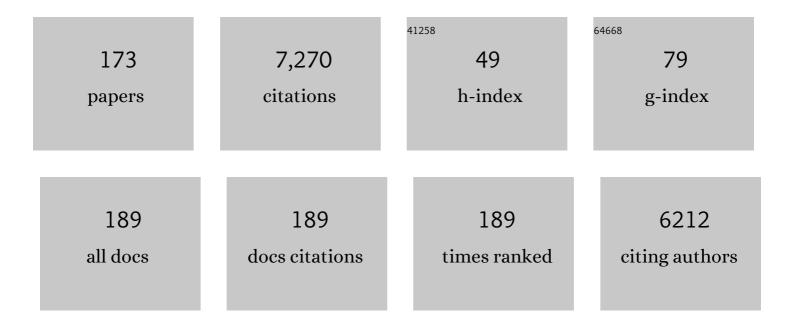
Gabriele Dubini

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The impact of microfluidics in high-throughput drug-screening applications. Biomicrofluidics, 2022, 16, .	1.2	16
2	Applicability assessment of a stent-retriever thrombectomy finite-element model. Interface Focus, 2021, 11, 20190123.	1.5	39
3	Hemodynamic perturbations due to the presence of stents. , 2021, , 251-271.		4
4	A microphysiological early metastatic niche on a chip reveals how heterotypic cell interactions and inhibition of integrin subunit l² ₃ impact breast cancer cell extravasation. Lab on A Chip, 2021, 21, 1061-1072.	3.1	21
5	Improving cell seeding efficiency through modification of fiber geometry in 3D printed scaffolds. Biofabrication, 2021, 13, 035025.	3.7	5
6	Bioprinting of Matrigel Scaffolds for Cancer Research. Polymers, 2021, 13, 2026.	2.0	12
7	Three dimensional reconstruction of coronary artery stents from optical coherence tomography: experimental validation and clinical feasibility. Scientific Reports, 2021, 11, 12252.	1.6	6
8	Impact of the Internal Carotid Artery Morphology on in silico Stent-Retriever Thrombectomy Outcome. Frontiers in Medical Technology, 2021, 3, 719909.	1.3	9
9	The first virtual patient-specific thrombectomy procedure. Journal of Biomechanics, 2021, 126, 110622.	0.9	25
10	Comprehensive computational analysis of the crimping procedure of PLLA BVS: effects of material viscous-plastic and temperature dependent behavior. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 123, 104713.	1.5	8
11	Computational fluid dynamic models as tools to predict aerosol distribution in tracheobronchial airways. Scientific Reports, 2021, 11, 1109.	1.6	14
12	Modeling the stent deployment in coronary arteries and coronary bifurcations. , 2021, , 563-582.		2
13	Applications of computational fluid dynamics to congenital heart diseases: a practical review for cardiovascular professionals. Expert Review of Cardiovascular Therapy, 2021, 19, 907-916.	0.6	5
14	Shear-Induced Encapsulation into Red Blood Cells: A New Microfluidic Approach to Drug Delivery. Annals of Biomedical Engineering, 2020, 48, 236-246.	1.3	11
15	Multiscale Modeling of Superior Cavopulmonary Circulation: Hemi-Fontan and Bidirectional Glenn Are Equivalent. Seminars in Thoracic and Cardiovascular Surgery, 2020, 32, 883-892.	0.4	9
16	A numerical investigationÂto evaluate the washout of blood compartments inÂa total artificial heart. Artificial Organs, 2020, 44, 976-986.	1.0	3
17	Deformation of leukaemia cell lines in hyperbolic microchannels: investigating the role of shear and extensional components. Lab on A Chip, 2020, 20, 2539-2548.	3.1	27
18	Application of an OCT-based 3D reconstruction framework to the hemodynamic assessment of an ulcerated coronary artery plaque. Medical Engineering and Physics, 2020, 78, 74-81.	0.8	13

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19	MICRO- AND MACROFLUIDIC ASSAYS FOR BIOFILM FORMATION ON BILIARY STENTS: PRELIMINARY RESULTS OF A PILOT STUDY. Endoscopy, 2020, 52, .	1.0	Ο
20	Effects of Caval Velocity Profiles on Pulmonary Flow in the Total Cavopulmonary Connection: CFD 3-D Model and Magnetic Resonance Studies. , 2020, , 601-608.		0
21	Haematocrit heterogeneity in blood flows past microfluidic models of oxygenating fibre bundles. Medical Engineering and Physics, 2019, 73, 30-38.	0.8	6
22	Automatic segmentation of optical coherence tomography pullbacks of coronary arteries treated with bioresorbable vascular scaffolds: Application to hemodynamics modeling. PLoS ONE, 2019, 14, e0213603.	1.1	18
23	Hemocompatibility and safety of the Carmat Total Artifical Heart hybrid membrane. Heliyon, 2019, 5, e02914.	1.4	15
24	Patient-Specific Modeling of Stented Coronary Arteries Reconstructed from Optical Coherence Tomography: Towards a Widespread Clinical Use of Fluid Dynamics Analyses. Journal of Cardiovascular Translational Research, 2018, 11, 156-172.	1.1	25
25	Differences in rotational positioning and subsequent distal main branch rewiring of the Tryton stent: An optical coherence tomography and computational study. Catheterization and Cardiovascular Interventions, 2018, 92, 897-906.	0.7	5
26	An interactive simulation tool for patient-specific clinical decision support in single-ventricle physiology. Journal of Thoracic and Cardiovascular Surgery, 2018, 155, 712-721.	0.4	24
27	A Patient-Specific Study Investigating the Relation between Coronary Hemodynamics and Neo-Intimal Thickening after Bifurcation Stenting with a Polymeric Bioresorbable Scaffold. Applied Sciences (Switzerland), 2018, 8, 1510.	1.3	6
28	Numerical Approach to Study the Behavior of an Artificial Ventricle: Fluid–Structure Interaction Followed By Fluid Dynamics With Moving Boundaries. Artificial Organs, 2018, 42, E315-E324.	1.0	15
29	A Computational Model of Heat Loss and Water Condensation on the Gasâ€Side of Blood Oxygenators. Artificial Organs, 2018, 42, E380-E390.	1.0	7
30	Biomechanical Impact of Wrong Positioning of a Dedicated Stent for Coronary Bifurcations: A Virtual Bench Testing Study. Cardiovascular Engineering and Technology, 2018, 9, 415-426.	0.7	13
31	Fluid–Structure Simulation of a Transcatheter Aortic Valve Implantation: Potential Application to Patient-Specific Cases. Lecture Notes in Bioengineering, 2018, , 93-98.	0.3	1
32	A scalable active micro-mixer for biomedical applications. Microfluidics and Nanofluidics, 2017, 21, 1.	1.0	22
33	Catch-and-Release of Target Cells Using Aptamer-Conjugated Electroactive Zwitterionic Oligopeptide SAM. Scientific Reports, 2017, 7, 43375.	1.6	8
34	Estimation of the physiological mechanical conditioning in vascular tissue engineering by a predictive fluid-structure interaction approach. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 1077-1088.	0.9	9
35	2D µ-Particle Image Velocimetry and Computational Fluid Dynamics Study Within a 3D Porous Scaffold. Annals of Biomedical Engineering, 2017, 45, 1341-1351.	1.3	17
36	Special Issue "Micro and Nano Flows 2016 (MNF2016) – Biomedical Stream― Medical Engineering and Physics, 2017, 48, 1-2.	0.8	0

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37	Microcirculation in the murine liver: a computational fluid dynamic model based on 3D reconstruction from in vivo microscopy. Journal of Biomechanics, 2017, 63, 125-134.	0.9	12
38	Patient-specific biomechanical model of hypoplastic left heart to predict post-operative cardio-circulatory behaviour. Medical Engineering and Physics, 2017, 47, 85-92.	0.8	5
39	A framework for computational fluid dynamic analyses of patient-specific stented coronary arteries from optical coherence tomography images. Medical Engineering and Physics, 2017, 47, 105-116.	0.8	30
40	Âμ-Particle tracking velocimetry and computational fluid dynamics study of cell seeding within a 3D porous scaffold. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 463-469.	1.5	28
41	Herringbone-like hydrodynamic structures in microchannels: A CFD model to evaluate the enhancement of surface binding. Medical Engineering and Physics, 2017, 48, 62-67.	0.8	1
42	Looks Do Matter! Aortic Arch Shape After Hypoplastic Left Heart Syndrome Palliation Correlates With Cavopulmonary Outcomes. Annals of Thoracic Surgery, 2017, 103, 645-654.	0.7	26
43	How successful is successful? Aortic arch shape after successful aortic coarctation repair correlates with left ventricular function. Journal of Thoracic and Cardiovascular Surgery, 2017, 153, 418-427.	0.4	61
44	Reconstruction of stented coronary arteries from optical coherence tomography images: Feasibility, validation, and repeatability of a segmentation method. PLoS ONE, 2017, 12, e0177495.	1.1	25
45	Impact of plaque type and side branch geometry on side branch compromise after provisional stent implantation: a simulation study. EuroIntervention, 2017, 13, e236-e245.	1.4	13
46	Performance of a thrombectomy device for aspiration of thrombus with various sizes based on a computational fluid dynamic modeling. Biomedizinische Technik, 2016, 61, 337-344.	0.9	2
47	Computational replication of the patient-specific stenting procedure for coronary artery bifurcations: From OCT and CT imaging to structural and hemodynamics analyses. Journal of Biomechanics, 2016, 49, 2102-2111.	0.9	60
48	A Computational Approach for the Prediction of Fatigue Behaviour in Peripheral Stents: Application to a Clinical Case. Annals of Biomedical Engineering, 2016, 44, 536-547.	1.3	30
49	Fluid–Structure Interaction Model of a Percutaneous Aortic Valve: Comparison with an In Vitro Test and Feasibility Study in a Patient-Specific Case. Annals of Biomedical Engineering, 2016, 44, 590-603.	1.3	66
50	Hydrodynamic Focusing of an Elastic Capsule in Stokes flow: An Exploratory Numerical Study. Procedia IUTAM, 2015, 16, 41-49.	1.2	2
51	Computational Modeling to Predict Fatigue Behavior of NiTi Stents: What Do We Need?. Journal of Functional Biomaterials, 2015, 6, 299-317.	1.8	32
52	Disturbed flow in a patient-specific arteriovenous fistula for hemodialysis: Multidirectional and reciprocating near-wall flow patterns. Journal of Biomechanics, 2015, 48, 2195-2200.	0.9	39
53	A multiscale model for the study of cardiac biomechanics in single-ventricle surgeries: a clinical case. Interface Focus, 2015, 5, 20140079.	1.5	16
54	Modelling and characterization of circular microplate electrostatic actuators for micropump applications. , 2015, , .		6

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55	Biomechanical Modeling to Improve Coronary Artery Bifurcation Stenting. JACC: Cardiovascular Interventions, 2015, 8, 1281-1296.	1.1	84
56	Human 3D vascularized organotypic microfluidic assays to study breast cancer cell extravasation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 214-219.	3.3	616
57	A novel device to concurrently assess leukocyte extravasation and interstitial migration within a defined 3D environment. Lab on A Chip, 2015, 15, 195-207.	3.1	19
58	First report on free expansion simulations of a dedicated bifurcation stent mounted on a stepped balloon. EuroIntervention, 2015, 10, e1-e3.	1.4	6
59	Virtual bench testing to study coronary bifurcation stenting. EuroIntervention, 2015, 11, V31-V34.	1.4	25
60	Patient-specific computer modelling of coronary bifurcation stenting: the John Doe programme. EuroIntervention, 2015, 11, V35-V39.	1.4	26
61	Abstract B23: Extravasation of breast cancer cells to a bone-cell conditioned microenvironment in functional 3D microvascular networks generated by vasculogenesis in a microfluidic system. , 2015, , .		0
62	From Histology and Imaging Data to Models for In-Stent Restenosis. International Journal of Artificial Organs, 2014, 37, 786-800.	0.7	14
63	Computational Models of Aortic Coarctation in Hypoplastic Left Heart Syndrome: Considerations on Validation of a Detailed 3D model. International Journal of Artificial Organs, 2014, 37, 371-381.	0.7	7
64	Computational Modeling of Passive Furrowed Channel Micromixers for Lab-on-a-chip Applications. Journal of Applied Biomaterials and Functional Materials, 2014, 12, 278-285.	0.7	1
65	Fabrication of biocompatible monolithic microchannels with high pressureâ€resistance using direct polymerization of PEGâ€modified PMMA. Journal of Applied Polymer Science, 2014, 131, .	1.3	1
66	Possible Benefits of Catheters With Lateral Holes in Coronary Thrombus Aspiration: A Computational Study for Different Clot Viscosities and Vacuum Pressures. Artificial Organs, 2014, 38, 845-855.	1.0	10
67	A microfluidic 3D inÂvitro model for specificity of breast cancer metastasis to bone. Biomaterials, 2014, 35, 2454-2461.	5.7	440
68	Contribution of Mechanical and Fluid Stresses to the Magnitude of In-stent Restenosis at the Level of Individual Stent Struts. Cardiovascular Engineering and Technology, 2014, 5, 164-175.	0.7	20
69	An integrated approach to patient-specific predictive modeling for single ventricle heart palliation. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 1572-1589.	0.9	55
70	Capacitive detection of micrometric airborne particulate matter for solid-state personal air quality monitors. Sensors and Actuators A: Physical, 2014, 219, 80-87.	2.0	49
71	Computational Study of Axial Fatigue for Peripheral Nitinol Stents. Journal of Materials Engineering and Performance, 2014, 23, 2606-2613.	1.2	15
72	Generation of 3D functional microvascular networks with human mesenchymal stem cells in microfluidic systems. Integrative Biology (United Kingdom), 2014, 6, 555-563.	0.6	195

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73	Influence of plaque calcifications on coronary stent fracture: A numerical fatigue life analysis including cardiac wall movement. Journal of Biomechanics, 2014, 47, 899-907.	0.9	55
74	Fatigue behaviour of Nitinol peripheral stents: The role of plaque shape studied with computational structural analyses. Medical Engineering and Physics, 2014, 36, 842-849.	0.8	55
75	Stent deformation, physical stress, and drug elution obtained with provisional stenting, conventional culotte and Tryton-based culotte to treat bifurcations: a virtual simulation study. EuroIntervention, 2014, 9, 1441-1453.	1.4	25
76	Microfluidics for in vitro biomimetic shear stress-dependent leukocyte adhesion assays. Journal of Biomechanics, 2013, 46, 276-283.	0.9	41
77	A novel flow chamber for biodegradable alloy assessment in physiologically realistic environments. Review of Scientific Instruments, 2013, 84, 094301.	0.6	13
78	Effects of pulmonary artery banding and retrograde aortic arch obstruction on the hybrid palliation of hypoplastic left heart syndrome. Journal of Thoracic and Cardiovascular Surgery, 2013, 146, 1341-1348.	0.4	37
79	Modeling stent deployment in realistic arterial segment geometries: The effect of the plaque composition. , 2013, , .		6
80	Real time prediction of the fatigue behavior of peripheral stents. , 2013, , .		1
81	Predictive modeling of the virtual Hemi-Fontan operation for second stage single ventricle palliation: Two patient-specific cases. Journal of Biomechanics, 2013, 46, 423-429.	0.9	71
82	Computational Modelling of In Vitro Set-Ups for Peripheral Self-Expanding Nitinol Stents: The Importance of Stent–Wall Interaction in the Assessment of the Fatigue Resistance. Cardiovascular Engineering and Technology, 2013, 4, 474-484.	0.7	18
83	Patient-Specific Stented Coronary Bifurcations: Numerical Analysis of Near-Wall Quantities and the Bulk Flow. , 2013, , .		0
84	Effect of anastomosis angle on the localization of disturbed flow in â€~side-to-end' fistulae for haemodialysis access. Nephrology Dialysis Transplantation, 2013, 28, 997-1005.	0.4	97
85	Simulation of oxygen transfer in stented arteries and correlation with inâ€stent restenosis. International Journal for Numerical Methods in Biomedical Engineering, 2013, 29, 1373-1387.	1.0	29
86	Pre-surgery planning in vascular procedures: An introduction to the RT3S project. , 2013, , .		0
87	Enhancement of Peripheral Stents Reliability: Developing Interactive Procedure Planning by Means of Numerical Simulations and Clinical Software Development. Journal of Medical Devices, Transactions of the ASME, 2013, 7, .	0.4	Ο
88	In Vitro Study of the Norwood Palliation. ASAIO Journal, 2012, 58, 25-31.	0.9	31
89	Computational fluid dynamics of stented coronary bifurcations studied with a hybrid discretization method. European Journal of Mechanics, B/Fluids, 2012, 35, 76-84.	1.2	39
90	Respiratory effects on hemodynamics in patient-specific CFD models of the Fontan circulation under exercise conditions. European Journal of Mechanics, B/Fluids, 2012, 35, 61-69.	1.2	27

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91	MODELLING THE ABSORPTION OF CLOT THROUGH CATHETER FOR DIFFERENT RHEOLOGY AND CATHETER TIP. Journal of Biomechanics, 2012, 45, S125.	0.9	0
92	FATIGUE BEHAVIOUR OF NITINOL PERIPHERAL STENTS: COMPUTATIONAL SIMULATIONS OF IN VITRO SET-UPS. Journal of Biomechanics, 2012, 45, S640.	0.9	2
93	Fluid–Structure Computational Analysis to Investigate the Link between Early Atherogenic Events and the Hemodynamic Environment in an Experimental Model of Intimal Thickening. Cardiovascular Engineering and Technology, 2012, 3, 282-291.	0.7	0
94	Virtual surgeries in patients with congenital heart disease: a multi-scale modelling test case. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 4316-4330.	1.6	76
95	Hemodynamics and In-stent Restenosis: Micro-CT Images, Histology, and Computer Simulations. Annals of Biomedical Engineering, 2011, 39, 2615-2626.	1.3	56
96	Design of microfluidic devices for drug screening on in-vitro cells for osteoporosis therapies. Microelectronic Engineering, 2011, 88, 1801-1806.	1.1	11
97	Multiscale models of the hybrid palliation for hypoplastic left heart syndrome. Journal of Biomechanics, 2011, 44, 767-770.	0.9	29
98	Boundary conditions of patient-specific fluid dynamics modelling of cavopulmonary connections: possible adaptation of pulmonary resistances results in a critical issue for a virtual surgical planning. Interface Focus, 2011, 1, 297-307.	1.5	31
99	Use of Mathematical Modeling to Compare and Predict Hemodynamic Effects Between Hybrid and Surgical Norwood Palliations for Hypoplastic Left Heart Syndrome. Circulation, 2011, 124, S204-10.	1.6	70
100	Sequential Structural and Fluid Dynamic Numerical Simulations of a Stented Bifurcated Coronary Artery. Journal of Biomechanical Engineering, 2011, 133, 121010.	0.6	60
101	Trends in biomedical engineering: focus on Patient Specific Modeling and Life Support Systems. Journal of Applied Biomaterials and Biomechanics, 2011, 9, 109-117.	0.4	1
102	Numerical Modelling of Stenting Procedures in Coronary Bifurcations: A Structural and Fluid Dynamic Combined Approach. , 2011, , .		0
103	Modelling of the provisional side-branch stenting approach for the treatment of atherosclerotic coronary bifurcations: effects of stent positioning. Biomechanics and Modeling in Mechanobiology, 2010, 9, 551-561.	1.4	95
104	A computational and experimental study inside microfluidic systems: the role of shear stress and flow recirculation in cell docking. Biomedical Microdevices, 2010, 12, 619-626.	1.4	31
105	Modeling of systemic-to-pulmonary shunts in newborns with a univentricular circulation: State of the art and future directions. Progress in Pediatric Cardiology, 2010, 30, 23-29.	0.2	22
106	Drug release from coronary eluting stents: A multidomain approach. Journal of Biomechanics, 2010, 43, 1580-1589.	0.9	74
107	Numerical Simulation of Thrombus Aspiration in Two Realistic Models of Catheter Tips. Artificial Organs, 2010, 34, 301-310.	1.0	21
108	Coronary bifurcation stenting: insights from in vitro and virtual bench testing. EuroIntervention, 2010, 6, J53-J60.	1.4	30

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109	Combined computational study of mechanical behaviour and drug delivery from a porous, hydroxyapatite-based bone graft. Biomechanics and Modeling in Mechanobiology, 2009, 8, 209-216.	1.4	6
110	Assessment of tissue prolapse after balloon-expandable stenting: Influence of stent cell geometry. Medical Engineering and Physics, 2009, 31, 441-447.	0.8	66
111	Computational models to predict stenosis growth in carotid arteries: Which is the role of boundary conditions?. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 113-123.	0.9	40
112	Pulmonary regurgitation: The effects of varying pulmonary artery compliance, and of increased resistance proximal or distal to the compliance. International Journal of Cardiology, 2009, 133, 157-166.	0.8	62
113	Management of a Stenotic Right Ventricle-Pulmonary Artery Shunt Early After the Norwood Procedure. Annals of Thoracic Surgery, 2009, 88, 830-838.	0.7	25
114	Effects of different stent designs on local hemodynamics in stented arteries. Journal of Biomechanics, 2008, 41, 1053-1061.	0.9	130
115	Computational evaluation of oxygen and shear stress distributions in 3D perfusion culture systems: Macro-scale and micro-structured models. Journal of Biomechanics, 2008, 41, 2918-2925.	0.9	88
116	SHEAR STRESS AND CELL DOCKING INSIDE MICROFLUIDIC SYSTEMS: A COMPUTATIONAL AND EXPERIMENTAL STUDY. Journal of Biomechanics, 2008, 41, S82.	0.9	0
117	Use of mathematic modeling to compare and predict hemodynamic effects of the modified Blalock–Taussig and right ventricle–pulmonary artery shunts for hypoplastic left heart syndrome. Journal of Thoracic and Cardiovascular Surgery, 2008, 136, 312-320.e2.	0.4	85
118	Simulation of stent deployment in a realistic human coronary artery. BioMedical Engineering OnLine, 2008, 7, 23.	1.3	99
119	Modelling drug elution from stents: effects of reversible binding in the vascular wall and degradable polymeric matrix. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 367-377.	0.9	44
120	A new bioreactor for the controlled application of complex mechanical stimuli for cartilage tissue engineering. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2008, 222, 705-715.	1.0	21
121	Chondrocyte Response to High Regimens of Cyclic Hydrostatic Pressure in 3-Dimensional Engineered Constructs. International Journal of Artificial Organs, 2008, 31, 490-499.	0.7	25
122	Expansion and drug elution model of a coronary stent. Computer Methods in Biomechanics and Biomedical Engineering, 2007, 10, 63-73.	0.9	74
123	Use of rapid prototyping models in the planning of percutaneous pulmonary valved stent implantation. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2007, 221, 407-416.	1.0	85
124	Finite Element Analysis of Stent Deployment: Understanding Stent Fracture in Percutaneous Pulmonary Valve Implantation. Journal of Interventional Cardiology, 2007, 20, 546-554.	0.5	62
125	Toward Optimal Hemodynamics: Computer Modeling of the Fontan Circuit. Pediatric Cardiology, 2007, 28, 477-481.	0.6	48
126	Prediction of the micro-fluid dynamic environment imposed to three-dimensional engineered cell systems in bioreactors. Journal of Biomechanics, 2006, 39, 418-425.	0.9	130

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127	Multiscale modelling in biofluidynamics: Application to reconstructive paediatric cardiac surgery. Journal of Biomechanics, 2006, 39, 1010-1020.	0.9	164
128	Modeling evaluation of the fluid-dynamic microenvironment in tissue-engineered constructs: A micro-CT based model. Biotechnology and Bioengineering, 2006, 93, 500-510.	1.7	156
129	Computational modeling of mechanical environment within tissue engineered cartilage. , 2006, , 552-552.		0
130	Computational fluid dynamics in a model of the total cavopulmonary connection reconstructed using magnetic resonance images. Cardiology in the Young, 2005, 15, 61-67.	0.4	14
131	Anatomic substrates for, and function of, the functionally univentricular circulation before and after surgical procedures. Cardiology in the Young, 2005, 15, 1-2.	0.4	2
132	A predictive study of the mechanical behaviour of coronary stents by computer modelling. Medical Engineering and Physics, 2005, 27, 13-18.	0.8	164
133	Controlled drug delivery from porous hydroxyapatite grafts: An experimental and theoretical approach. Materials Science and Engineering C, 2005, 25, 207-213.	3.8	82
134	Multiscale modeling of the cardiovascular system: application to the study of pulmonary and coronary perfusions in the univentricular circulation. Journal of Biomechanics, 2005, 38, 1129-1141.	0.9	134
135	Computational modeling of vascular anastomoses. Biomechanics and Modeling in Mechanobiology, 2005, 3, 235-250.	1.4	62
136	NEW TRENDS IN TISSUE ENGINEERED CARTILAGE: MICROFLUID DYNAMICS IN 3-D ENGINEERED CELL SYSTEMS. Journal of Mechanics in Medicine and Biology, 2005, 05, 455-464.	0.3	1
137	Computational Studies of Shape Memory Alloy Behavior in Biomedical Applications. Journal of Biomechanical Engineering, 2005, 127, 716-725.	0.6	66
138	a study of mathematical modelling of the competitions of flow in the cavopulmonary anastomosis with persistent forward flow. Cardiology in the Young, 2004, 14, 32-37.	0.4	2
139	ten years of modelling to achieve haemodynamic optimisation of the total cavopulmonary connection. Cardiology in the Young, 2004, 14, 48-52.	0.4	8
140	global mathematical modelling of the norwood circulation: a multiscale approach for the study of the pulmonary and coronary arterial perfusions. Cardiology in the Young, 2004, 14, 71-76.	0.4	11
141	the effect of the position of an additional systemic-to-pulmonary shunt on the fluid dynamics of the bidirectional cavo-pulmonary anastomosis. Cardiology in the Young, 2004, 14, 38-43.	0.4	6
142	assessment by computational and in vitro studies of the blood flow rate through modified blalock-taussig shunts. Cardiology in the Young, 2004, 14, 24-29.	0.4	4
143	Stainless and shape memory alloy coronary stents: a computational study on the interaction with the vascular wall. Biomechanics and Modeling in Mechanobiology, 2004, 2, 205-17.	1.4	123
144	Numerical investigation of the intravascular coronary stent flexibility. Journal of Biomechanics, 2004, 37, 495-501.	0.9	122

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145	Computational fluid dynamic study of flow optimization in realistic models of the total cavopulmonary connections. Journal of Surgical Research, 2004, 116, 305-313.	0.8	67
146	The effect of media perfusion on three-dimensional cultures of human chondrocytes: integration of experimental and computational approaches. Biorheology, 2004, 41, 401-10.	1.2	67
147	Computational fluid dynamics in the evaluation of hemodynamic performance of cavopulmonary connections after the norwood procedure for hypoplastic left heart syndrome. Journal of Thoracic and Cardiovascular Surgery, 2003, 126, 1040-1047.	0.4	153
148	Computational Fluid Dynamics Simulations in Realistic 3-D Geometries of the Total Cavopulmonary Anastomosis: The Influence of the Inferior Caval Anastomosis. Journal of Biomechanical Engineering, 2003, 125, 805-813.	0.6	83
149	The Effect of Fixture Neck Design in a Realistic Model of Dental Implant: A Finite Element Approach. Computer Methods in Biomechanics and Biomedical Engineering, 2003, 6, 289-297.	0.9	3
150	Pressure Drops in a Distensible Model of End-to-side Anastomosis in Systemic-to-pulmonary Shunts. Computer Methods in Biomechanics and Biomedical Engineering, 2002, 5, 243-248.	0.9	17
151	Fluid Dynamics at Connections in Paediatric Cardiac Surgery*. Meccanica, 2002, 37, 453-463.	1.2	4
152	Multiscale modelling as a tool to prescribe realistic boundary conditions for the study of surgical procedures. Biorheology, 2002, 39, 359-64.	1.2	67
153	Modeling of the Norwood circulation: effects of shunt size, vascular resistances, and heart rate. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H2076-H2086.	1.5	174
154	Effects of pulmonary afterload on the hemodynamics after the hemi-Fontan procedure. Medical Engineering and Physics, 2001, 23, 293-298.	0.8	22
155	In vitro steady-flow analysis of systemic-to-pulmonary shunt haemodynamics. Journal of Biomechanics, 2001, 34, 23-30.	0.9	33
156	Computational model of the fluid dynamics in systemic-to-pulmonary shunts. Journal of Biomechanics, 2000, 33, 549-557.	0.9	55
157	Calculating blood flow from Doppler measurements in the systemic-to-pulmonary artery shunt after the Norwood operation: a method based on computational fluid dynamics. Ultrasound in Medicine and Biology, 2000, 26, 209-219.	0.7	38
158	Humidity measurements in passive heat and moisture exchangers applications: a critical issue. Journal of Medical Engineering and Technology, 2000, 24, 40-44.	0.8	2
159	Use of Mathematical Model to Predict Hemodynamics in Cavopulmonary Anastomosis with Persistent Forward Flow. Journal of Surgical Research, 2000, 89, 43-52.	0.8	24
160	Computational fluid dynamics in paediatric cardiac surgery. Images in Paediatric Cardiology, 2000, 2, 11-25.	0.1	0
161	Computational fluid dynamic simulations of cavopulmonary connections with an extracardiac lateral conduit. Medical Engineering and Physics, 1999, 21, 187-193.	0.8	55
162	Computational fluid dynamic and magnetic resonance analyses of flow distribution between the lungs after total cavopulmonary connection. IEEE Transactions on Biomedical Engineering, 1999, 46, 393-399.	2.5	40

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163	Mesh updating in fluid-structure interactions in biomechanics: An iterative method based on an uncoupled approach. Annals of Biomedical Engineering, 1997, 25, 218-231.	1.3	6
164	Computational transient simulations with varying degree and shape of pulmonic stenosis in models of the bidirectional cavopulmonary anastomosis. Medical Engineering and Physics, 1997, 19, 394-403.	0.8	20
165	A mathematical model of circulation in the presence of the bidirectional cavopulmonary anastomosis in children with a univentricular heart. Medical Engineering and Physics, 1997, 19, 223-234.	0.8	69
166	Use of computational fluid dynamics in the design of surgical procedures: Application to the study of competitive flows in cavopulmonary connections. Journal of Thoracic and Cardiovascular Surgery, 1996, 111, 502-513.	0.4	254
167	A numerical fluid mechanical study of repaired congenital heart defects. Application to the total cavopulmonary connection. Journal of Biomechanics, 1996, 29, 111-121.	0.9	121
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