

Alberto Cl Redaelli

List of Publications by Year in descending order

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268
papers

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citations

47004

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272
docs citations

272
times ranked

8706
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchical Structure and Nanomechanics of Collagen Microfibrils from the Atomistic Scale Up. Nano Letters, 2011, 11, 757-766.	9.1	550
2	Molecular and Nanostructural Mechanisms of Deformation, Strength and Toughness of Spider Silk Fibrils. Nano Letters, 2010, 10, 2626-2634.	9.1	362
3	Beating heart on a chip: a novel microfluidic platform to generate functional 3D cardiac microtissues. Lab on A Chip, 2016, 16, 599-610.	6.0	322
4	Fluid-structure interaction within realistic three-dimensional models of the aneurysmatic aorta as a guidance to assess the risk of rupture of the aneurysm. Medical Engineering and Physics, 2001, 23, 647-655.	1.7	301
5	Possible role of decorin glycosaminoglycans in fibril to fibril force transfer in relative mature tendons—a computational study from molecular to microstructural level. Journal of Biomechanics, 2003, 36, 1555-1569.	2.1	229
6	Review: Engineering of thermostable enzymes for industrial applications. APL Bioengineering, 2018, 2, 011501.	6.2	202
7	In Vivo Quantification of Helical Blood Flow in Human Aorta by Time-Resolved Three-Dimensional Cine Phase Contrast Magnetic Resonance Imaging. Annals of Biomedical Engineering, 2009, 37, 516-531.	2.5	191
8	Mechanistic insight into the physiological relevance of helical blood flow in the human aorta: an in vivo study. Biomechanics and Modeling in Mechanobiology, 2011, 10, 339-355.	2.8	190
9	Platelet Activation Due to Hemodynamic Shear Stresses: Damage Accumulation Model and Comparison to In Vitro Measurements. ASAIO Journal, 2008, 54, 64-72.	1.6	188
10	Advanced glycation end-products: Mechanics of aged collagen from molecule to tissue. Matrix Biology, 2017, 59, 95-108.	3.6	186
11	Helical flow as fluid dynamic signature for atherogenesis risk in aortocoronary bypass. A numeric study. Journal of Biomechanics, 2007, 40, 519-534.	2.1	157
12	Deformation rate controls elasticity and unfolding pathway of single tropocollagen molecules. Journal of the Mechanical Behavior of Biomedical Materials, 2009, 2, 130-137.	3.1	155
13	Viscoelastic properties of model segments of collagen molecules. Matrix Biology, 2012, 31, 141-149.	3.6	144
14	The Geoform Disease-Specific Annuloplasty System: A Finite Element Study. Annals of Thoracic Surgery, 2007, 84, 92-101.	1.3	126
15	Molecular and Mesoscale Mechanisms of Osteogenesis Imperfecta Disease in Collagen Fibrils. Biophysical Journal, 2009, 97, 857-865.	0.5	123
16	Numerical simulation of the dynamics of a bileaflet prosthetic heart valve using a fluid-structure interaction approach. Journal of Biomechanics, 2008, 41, 2539-2550.	2.1	119
17	Toward patient-specific simulations of cardiac valves: State-of-the-art and future directions. Journal of Biomechanics, 2013, 46, 217-228.	2.1	119
18	Age- and diabetes-related nonenzymatic crosslinks in collagen fibrils: Candidate amino acids involved in Advanced Glycation End-products. Matrix Biology, 2014, 34, 89-95.	3.6	113

#	ARTICLE	IF	CITATIONS
19	Biomechanical implications of the congenital bicuspid aortic valve: A finite element study of aortic root function from in vivo data. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2010, 140, 890-896.e2.	0.8	109
20	Estimation of the binding force of the collagen molecule-decorin core protein complex in collagen fibril. <i>Journal of Biomechanics</i> , 2005, 38, 433-443.	2.1	105
21	Mitral valve finite-element modelling from ultrasound data: a pilot study for a new approach to understand mitral function and clinical scenarios. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 3411-3434.	3.4	102
22	Coarse-Grained Model of Collagen Molecules Using an Extended MARTINI Force Field. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 1210-1218.	5.3	94
23	On the importance of blood rheology for bulk flow in hemodynamic models of the carotid bifurcation. <i>Journal of Biomechanics</i> , 2011, 44, 2427-2438.	2.1	93
24	Mitral Valve Patient-Specific Finite Element Modeling from Cardiac MRI: Application to an Annuloplasty Procedure. <i>Cardiovascular Engineering and Technology</i> , 2011, 2, 66-76.	1.6	93
25	Anisotropic Elastic Network Modeling of Entire Microtubules. <i>Biophysical Journal</i> , 2010, 99, 2190-2199.	0.5	91
26	The hemodynamic effects of double-orifice valve repair for mitral regurgitation: a 3D computational model. <i>European Journal of Cardio-thoracic Surgery</i> , 1999, 15, 419-425.	1.4	85
27	Dynamic finite element analysis of the aortic root from MRI-derived parameters. <i>Medical Engineering and Physics</i> , 2010, 32, 212-221.	1.7	82
28	Outflow Conditions for Image-Based Hemodynamic Models of the Carotid Bifurcation: Implications for Indicators of Abnormal Flow. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 091005.	1.3	80
29	Transcatheter Edge-to-Edge Treatment of Functional Tricuspid Regurgitation in an Ex Vivo Pulsatile Heart Model. <i>Journal of the American College of Cardiology</i> , 2016, 68, 1024-1033.	2.8	79
30	Impact of modeling fluid-structure interaction in the computational analysis of aortic root biomechanics. <i>Medical Engineering and Physics</i> , 2013, 35, 1721-1730.	1.7	76
31	High-Throughput Microfluidic Platform for 3D Cultures of Mesenchymal Stem Cells, Towards Engineering Developmental Processes. <i>Scientific Reports</i> , 2015, 5, 10288.	3.3	76
32	Restricted cusp motion in right-left type of bicuspid aortic valves: A new risk marker for aortopathy. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012, 144, 360-369.e1.	0.8	74
33	3-D computational analysis of the stress distribution on the leaflets after edge-to-edge repair of mitral regurgitation. <i>Journal of Heart Valve Disease</i> , 2002, 11, 810-22.	0.5	72
34	An Annular Prosthesis for the Treatment of Functional Mitral Regurgitation: Finite Element Model Analysis of a Dog Bone-Shaped Ring Prosthesis. <i>Annals of Thoracic Surgery</i> , 2005, 79, 1268-1275.	1.3	70
35	Impact of different aortic valve calcification patterns on the outcome of transcatheter aortic valve implantation: A finite element study. <i>Journal of Biomechanics</i> , 2016, 49, 2520-2530.	2.1	69
36	Hydration and distance dependence of intermolecular shearing between collagen molecules in a model microfibril. <i>Journal of Biomechanics</i> , 2012, 45, 2079-2083.	2.1	67

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37	Molecular assessment of the elastic properties of collagen-like homotrimer sequences. <i>Biomechanics and Modeling in Mechanobiology</i> , 2005, 3, 224-234.	2.8	66
38	Blood damage safety of prosthetic heart valves. Shear-induced platelet activation and local flow dynamics: A fluid-structure interaction approach. <i>Journal of Biomechanics</i> , 2009, 42, 1952-1960.	2.1	66
39	Single molecule effects of osteogenesis imperfecta mutations in tropocollagen protein domains. <i>Protein Science</i> , 2009, 18, 161-168.	7.6	61
40	Modeling and measuring visco-elastic properties: From collagen molecules to collagen fibrils. <i>International Journal of Non-Linear Mechanics</i> , 2013, 56, 25-33.	2.6	58
41	Microfabricated polyester conical microwells for cell culture applications. <i>Lab on A Chip</i> , 2011, 11, 2325.	6.0	57
42	Fabrication of 3D cell-laden hydrogel microstructures through photo-mold patterning. <i>Biofabrication</i> , 2013, 5, 035002.	7.1	55
43	Do cardiac stabilizers really stabilize? Experimental quantitative analysis of mechanical stabilization. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2005, 4, 222-226.	1.1	51
44	Hemodynamic and thrombogenic analysis of a trileaflet polymeric valve using a fluid-structure interaction approach. <i>Journal of Biomechanics</i> , 2015, 48, 3641-3649.	2.1	51
45	Aortic root performance after valve sparing procedure: A comparative finite element analysis. <i>Medical Engineering and Physics</i> , 2009, 31, 234-243.	1.7	50
46	Quantitative Analysis of Bulk Flow in Image-Based Hemodynamic Models of the Carotid Bifurcation: The Influence of Outflow Conditions as Test Case. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3688-3705.	2.5	50
47	Mechanical properties of physiological and pathological models of collagen peptides investigated via steered molecular dynamics simulations. <i>Journal of Biomechanics</i> , 2008, 41, 3073-3077.	2.1	49
48	Tubulin: from atomistic structure to supramolecular mechanical properties. <i>Journal of Materials Science</i> , 2007, 42, 8864-8872.	3.7	45
49	Poroelastic finite element analysis of a bone specimen under cyclic loading. <i>Journal of Biomechanics</i> , 1999, 32, 135-144.	2.1	44
50	Computational analysis of the ductus venosus fluid dynamics based on Doppler measurements. <i>Ultrasound in Medicine and Biology</i> , 1996, 22, 1017-1029.	1.5	43
51	In vitro hemodynamics and valve imaging in passive beating hearts. <i>Journal of Biomechanics</i> , 2012, 45, 1133-1139.	2.1	42
52	Mitral Valve Finite Element Modeling: Implications of Tissues' Nonlinear Response and Annular Motion. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 121010.	1.3	41
53	Womersley Number-Based Estimates of Blood Flow Rate in Doppler Analysis: In Vivo Validation by Means of Phase-Contrast MRI. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 1807-1815.	4.2	41
54	Platelet activation is a preoperative risk factor for the development of thromboembolic complications in patients with continuous-flow left ventricular assist device. <i>European Journal of Heart Failure</i> , 2018, 20, 792-800.	7.1	40

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55	Finite element modelling of the tricuspid valve: A preliminary study. <i>Medical Engineering and Physics</i> , 2010, 32, 1213-1223.	1.7	39
56	A microfluidic platform for controlled biochemical stimulation of twin neuronal networks. <i>Biomicrofluidics</i> , 2012, 6, 024106.	2.4	37
57	Computational evaluation of the thrombogenic potential of a hollow-fiber oxygenator with integrated heat exchanger during extracorporeal circulation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 349-361.	2.8	36
58	A novel passive left heart platform for device testing and research. <i>Medical Engineering and Physics</i> , 2015, 37, 361-366.	1.7	36
59	High Frequency Components of Hemodynamic Shear Stress Profiles are a Major Determinant of Shear-Mediated Platelet Activation in Therapeutic Blood Recirculating Devices. <i>Scientific Reports</i> , 2017, 7, 4994.	3.3	36
60	A microscale biomimetic platform for generation and electro-mechanical stimulation of 3D cardiac microtissues. <i>APL Bioengineering</i> , 2018, 2, 046102.	6.2	36
61	Evaluation of 4D flow MRI-based non-invasive pressure assessment in aortic coarctations. <i>Journal of Biomechanics</i> , 2019, 94, 13-21.	2.1	35
62	A Computational Study of the Hemodynamics After "Edge-to-Edge" Mitral Valve Repair. <i>Journal of Biomechanical Engineering</i> , 2001, 123, 565-570.	1.3	34
63	Mitral leaflet modeling: Importance of in vivo shape and material properties. <i>Journal of Biomechanics</i> , 2011, 44, 2229-2235.	2.1	32
64	Shape of Aquatic Animals and Their Swimming Efficiency. <i>Journal of Marine Biology</i> , 2014, 2014, 1-9.	1.0	32
65	Recapitulating monocyte extravasation to the synovium in an organotypic microfluidic model of the articular joint. <i>Biofabrication</i> , 2021, 13, 045001.	7.1	32
66	Aspirin has limited ability to modulate shear-mediated platelet activation associated with elevated shear stress of ventricular assist devices. <i>Thrombosis Research</i> , 2016, 140, 110-117.	1.7	31
67	Aortic flow after valve sparing root replacement with or without neosinuses reconstruction. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019, 157, 455-465.	0.8	31
68	Electrical conditioning of adipose-derived stem cells in a multi-chamber culture platform. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1452-1463.	3.3	30
69	Thrombotic Risk of Rotor Speed Modulation Regimes of Contemporary Centrifugal Continuous-flow Left Ventricular Assist Devices. <i>ASAIO Journal</i> , 2021, 67, 737-745.	1.6	30
70	Reliable CFD-based estimation of flow rate in haemodynamics measures. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1545-1555.	1.5	29
71	How to predict diffusion of medium-sized molecules in polymer matrices. From atomistic to coarse grain simulations. <i>Journal of Molecular Modeling</i> , 2010, 16, 1845-1851.	1.8	29
72	A Novel Approach to the In Vitro Hydrodynamic Study of the Aortic Valve: Mock Loop Development and Test. <i>ASAIO Journal</i> , 2010, 56, 279-284.	1.6	28

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73	Is it possible to assess the best mitral valve repair in the individual patient? Preliminary results of a finite element study from magnetic resonance imaging data. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 1025-1034.	0.8	28
74	Blood damage in Left Ventricular Assist Devices: Pump thrombosis or system thrombosis?. <i>International Journal of Artificial Organs</i> , 2019, 42, 113-124.	1.4	28
75	Patient-Specific Bicuspid Aortic Valve Biomechanics: A Magnetic Resonance Imaging Integrated Fluid-Structure Interaction Approach. <i>Annals of Biomedical Engineering</i> , 2021, 49, 627-641.	2.5	28
76	A Computational Model for the Optimization of Transport Phenomena in a Rotating Hollow-Fiber Bioreactor for Artificial Liver. <i>Tissue Engineering - Part C: Methods</i> , 2009, 15, 41-55.	2.1	27
77	Mechanical Model of the Tubulin Dimer Based on Molecular Dynamics Simulations. <i>Journal of Biomechanical Engineering</i> , 2008, 130, 041008.	1.3	26
78	Nanomechanics of collagen microfibrils. <i>Muscles, Ligaments and Tendons Journal</i> , 2013, 3, 23-34.	0.3	26
79	Mechanical response and conformational changes of alpha-actinin domains during unfolding: a molecular dynamics study. <i>Biomechanics and Modeling in Mechanobiology</i> , 2007, 6, 399-407.	2.8	25
80	Reliable magnetic reversible assembly of complex microfluidic devices: fabrication, characterization, and biological validation. <i>Microfluidics and Nanofluidics</i> , 2011, 10, 1097-1107.	2.2	25
81	In vitro and in silico approaches to quantify the effects of the Mitraclip [®] system on mitral valve function. <i>Journal of Biomechanics</i> , 2017, 50, 83-92.	2.1	25
82	3-D simulation of the St. Jude Medical bileaflet valve opening process: fluid-structure interaction study and experimental validation. <i>Journal of Heart Valve Disease</i> , 2004, 13, 804-13.	0.5	25
83	Computational modeling for the optimization of a cardiogenic 3D bioprocess of encapsulated embryonic stem cells. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 261-277.	2.8	24
84	Immediate Impact of Prosthetic Graft Replacement of the Ascending Aorta on Circumferential Strain in the Descending Aorta. <i>European Journal of Vascular and Endovascular Surgery</i> , 2019, 58, 521-528.	1.5	24
85	Intermolecular slip mechanism in tropocollagen nanofibrils. <i>International Journal of Materials Research</i> , 2009, 100, 921-925.	0.3	23
86	A Bioreactor with Compliance Monitoring for Heart Valve Grafts. <i>Annals of Biomedical Engineering</i> , 2010, 38, 100-108.	2.5	23
87	Functional and Biomechanical Effects of the Edge-to-Edge Repair in the Setting of Mitral Regurgitation: Consolidated Knowledge and Novel Tools to Gain Insight into Its Percutaneous Implementation. <i>Cardiovascular Engineering and Technology</i> , 2015, 6, 117-140.	1.6	23
88	Applications of augmented reality in the neurosurgical operating room: A systematic review of the literature. <i>Journal of Clinical Neuroscience</i> , 2021, 91, 43-61.	1.5	23
89	Physiologic flow-conditioning limits vascular dysfunction in engineered human capillaries. <i>Biomaterials</i> , 2022, 280, 121248.	11.4	23
90	Bubble Tracking Through Computational Fluid Dynamics in Arterial Line Filters for Cardiopulmonary Bypass. <i>ASAIO Journal</i> , 2009, 55, 438-444.	1.6	22

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91	Microfluidic emulation of mechanical circulatory support device shear-mediated platelet activation. <i>Biomedical Microdevices</i> , 2015, 17, 117.	2.8	22
92	Generating Multicompartmental 3D Biological Constructs Interfaced through Sequential Injections in Microfluidic Devices. <i>Advanced Healthcare Materials</i> , 2017, 6, 1601170.	7.6	22
93	Micro-electrode channel guide (μ ECC) technology: an online method for continuous electrical recording in a human beating heart-on-chip. <i>Biofabrication</i> , 2021, 13, 035026.	7.1	22
94	Biomechanical drawbacks of different techniques of mitral neochordal implantation: When an apparently optimal repair can fail. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2015, 150, 1303-1312.e4.	0.8	21
95	Novel insights by 4D Flow imaging on aortic flow physiology after valve-sparing root replacement with or without neosinuses. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2018, 26, 957-964.	1.1	21
96	The assignment of velocity profiles in finite element simulations of pulsatile flow in arteries. <i>Computers in Biology and Medicine</i> , 1997, 27, 233-247.	7.0	20
97	Intraventricular pressure drop and aortic blood acceleration as indices of cardiac inotropy: a comparison with the first derivative of aortic pressure based on computer fluid dynamics. <i>Medical Engineering and Physics</i> , 1998, 20, 231-241.	1.7	20
98	Hemolysate-mediated platelet aggregation: an additional risk mechanism contributing to thrombosis of continuous flow ventricular assist devices. <i>Perfusion (United Kingdom)</i> , 2016, 31, 401-408.	1.0	20
99	In vitro assessment of mitral valve function in cyclically pressurized porcine hearts. <i>Medical Engineering and Physics</i> , 2016, 38, 346-353.	1.7	20
100	Comparison of the Performance of a Sutureless Bioprosthesis With Two Pericardial Stented Valves on Small Annuli: An In Vitro Study. <i>Annals of Thoracic Surgery</i> , 2017, 103, 139-144.	1.3	20
101	3-Dimensional personalized planning for transcatheter pulmonary valve implantation in a dysfunctional right ventricular outflow tract. <i>International Journal of Cardiology</i> , 2020, 309, 33-39.	1.7	20
102	Doppler derived quantitative flow estimate in coronary artery bypass graft: A computational multiscale model for the evaluation of the current clinical procedure. <i>Medical Engineering and Physics</i> , 2008, 30, 809-816.	1.7	19
103	Influence of the aortic valve leaflets on the fluid-dynamics in aorta in presence of a normally functioning bicuspid valve. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 1349-1361.	2.8	19
104	Microfabricated Physiological Models for In Vitro Drug Screening Applications. <i>Micromachines</i> , 2016, 7, 233.	2.9	19
105	Thermal stabilization of the deglycating enzyme Amadoriase I by rational design. <i>Scientific Reports</i> , 2018, 8, 3042.	3.3	19
106	Synthetic dataset generation for the analysis and the evaluation of image-based hemodynamics of the human aorta. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 145-154.	2.8	18
107	Aortic Root Biomechanics After Sleeve and David Sparing Techniques: A Finite Element Analysis. <i>Annals of Thoracic Surgery</i> , 2017, 103, 1451-1459.	1.3	18
108	Prediction of stenting related adverse events through patient-specific finite element modelling. <i>Journal of Biomechanics</i> , 2018, 79, 135-146.	2.1	18

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109	Aortic hemodynamics assessment prior and after valve sparing reconstruction: A patient-specific 4D flow-based FSI model. <i>Computers in Biology and Medicine</i> , 2021, 135, 104581.	7.0	18
110	Development of a New Disposable Pulsatile Pump for Cardiopulmonary Bypass: Computational Fluid-Dynamic Design and In Vitro Tests. <i>ASAIO Journal</i> , 2002, 48, 260-267.	1.6	17
111	Computational and Functional Evaluation of a Microfluidic Blood Flow Device. <i>ASAIO Journal</i> , 2007, 53, 447-455.	1.6	17
112	Computer-Aided Molecular Modeling and Experimental Validation of Water Permeability Properties in Biosynthetic Materials. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010, 7, 1287-1293.	0.4	17
113	Microfluidic Approaches for the Assessment of Blood Cell Trauma: A Focus on Thrombotic Risk in Mechanical Circulatory Support Devices. <i>International Journal of Artificial Organs</i> , 2016, 39, 184-193.	1.4	17
114	Prothrombotic activity of cytokine-activated endothelial cells and shear-activated platelets in the setting of ventricular assist device support. <i>Journal of Heart and Lung Transplantation</i> , 2019, 38, 658-667.	0.6	17
115	Left ventricular modelling: a quantitative functional assessment tool based on cardiac magnetic resonance imaging. <i>Interface Focus</i> , 2011, 1, 384-395.	3.0	16
116	Fluid-dynamic results of in vitro comparison of four pericardial bioprostheses implanted in small porcine aortic roots. <i>European Journal of Cardio-thoracic Surgery</i> , 2015, 47, e62-e67.	1.4	16
117	Dynamic and quantitative evaluation of degenerative mitral valve disease: a dedicated framework based on cardiac magnetic resonance imaging. <i>Journal of Thoracic Disease</i> , 2017, 9, S225-S238.	1.4	16
118	Design and validation of a microfluidic device for blood-brain barrier monitoring and transport studies. <i>Journal of Micromechanics and Microengineering</i> , 2018, 28, 044001.	2.6	16
119	Influence of Different Antithrombotic Regimens on Platelet-Mediated Thrombin Generation in Patients with Left Ventricular Assist Devices. <i>ASAIO Journal</i> , 2020, 66, 415-422.	1.6	16
120	Prosthetic aortic graft replacement of the ascending thoracic aorta alters biomechanics of the native descending aorta as assessed by transthoracic echocardiography. <i>PLoS ONE</i> , 2020, 15, e0230208.	2.5	16
121	Osteogenesis imperfecta mutations lead to local tropocollagen unfolding and disruption of H-bond network. <i>RSC Advances</i> , 2012, 2, 3890.	3.6	15
122	On the Use of the Platelet Activity State Assay for the In Vitro Quantification of Platelet Activation in Blood Recirculating Devices for Extracorporeal Circulation. <i>Artificial Organs</i> , 2016, 40, 971-980.	1.9	15
123	Nanostructure and stability of calcitonin amyloids. <i>Journal of Biological Chemistry</i> , 2017, 292, 7348-7357.	3.4	15
124	Routine clinical anti-platelet agents have limited efficacy in modulating hypershear-mediated platelet activation associated with mechanical circulatory support. <i>Thrombosis Research</i> , 2018, 163, 162-171.	1.7	15
125	A Simple Vacuum-Based Microfluidic Technique to Establish High-Throughput Organ-on-a-Chip and 3D Cell Cultures at the Microscale. <i>Advanced Materials Technologies</i> , 2019, 4, 1800319.	5.8	15
126	Molecular dynamics simulations provide insights into the substrate specificity of FAOX family members. <i>Molecular BioSystems</i> , 2016, 12, 2622-2633.	2.9	14

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127	An experimental and computational study of the inferior vena cava hemodynamics under respiratory-induced collapse of the infrarenal IVC. <i>Medical Engineering and Physics</i> , 2018, 54, 44-55.	1.7	14
128	Shear-Mediated Platelet Activation Enhances Thrombotic Complications in Patients With LVADs and Is Reversed After Heart Transplantation. <i>ASAIO Journal</i> , 2019, 65, e33-e35.	1.6	14
129	Assessing the influence of perfusion on cardiac microtissue maturation: A heart-on-a-chip platform embedding peristaltic pump capabilities. <i>Biotechnology and Bioengineering</i> , 2021, 118, 3128-3137.	3.3	14
130	A Deep Learning-Based and Fully Automated Pipeline for Thoracic Aorta Geometric Analysis and Planning for Endovascular Repair from Computed Tomography. <i>Journal of Digital Imaging</i> , 2022, 35, 226-239.	2.9	14
131	Numerical Fluid-Dynamic Optimization of Microchannel-Provided Porous Scaffolds for the Co-Culture of Adherent and Non-Adherent Cells. <i>Tissue Engineering - Part A</i> , 2009, 15, 615-623.	3.1	13
132	The aortic interleaflet triangles annuloplasty: a multidisciplinary appraisal. <i>European Journal of Cardio-thoracic Surgery</i> , 2011, 40, 851-7.	1.4	13
133	High-throughput microfluidic platform for adherent single cells non-viral gene delivery. <i>RSC Advances</i> , 2015, 5, 5087-5095.	3.6	13
134	Tailoring cardiac environment in microphysiological systems: an outlook on current and perspective heart-on-chip platforms. <i>Future Science OA</i> , 2017, 3, FSO191.	1.9	13
135	Flow dynamics of the St Jude Medical Symmetry aortic connector vein graft anastomosis do not contribute to the risk of acute thrombosis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2004, 128, 117-123.	0.8	12
136	Interaction forces and interface properties of KIF1A kinesin-tubulin complex assessed by molecular dynamics. <i>Journal of Biomechanics</i> , 2008, 41, 3196-3201.	2.1	12
137	Womersley number-based estimation of flow rate with Doppler ultrasound: Sensitivity analysis and first clinical application. <i>Computer Methods and Programs in Biomedicine</i> , 2010, 98, 151-160.	4.7	12
138	Does the type of suture technique affect the fluid-dynamic performance of bioprostheses implanted in small aortic roots? Results from an in vitro study. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2015, 149, 912-918.	0.8	12
139	Molecular dynamics investigation of halogenated amyloidogenic peptides. <i>Journal of Molecular Modeling</i> , 2019, 25, 124.	1.8	12
140	Insights Into the Low Rate of In-Pump Thrombosis With the HeartMate 3: Does the Artificial Pulse Improve Washout?. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 775780.	2.4	12
141	An anatomy-based lumped parameter model of cerebrospinal venous circulation: can an extracranial anatomical change impact intracranial hemodynamics?. <i>BMC Neurology</i> , 2015, 15, 95.	1.8	11
142	Title is missing!. <i>Meccanica</i> , 1997, 32, 53-70.	2.0	10
143	A numerical performance assessment of a commercial cardiopulmonary by-pass blood heat exchanger. <i>Medical Engineering and Physics</i> , 2015, 37, 584-592.	1.7	10
144	Platelet Adhesion and Thrombus Formation in Microchannels: The Effect of Assay-Dependent Variables. <i>International Journal of Molecular Sciences</i> , 2020, 21, 750.	4.1	10

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145	Prediction of post-stenting biomechanics in coarcted aortas: A pilot finite element study. <i>Journal of Biomechanics</i> , 2020, 105, 109796.	2.1	10
146	Comparison of Four-Dimensional Magnetic Resonance Imaging Analysis of Left Ventricular Fluid Dynamics and Energetics in Ischemic and Restrictive Cardiomyopathies. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 56, 1157-1170.	3.4	10
147	Influence of Mitral Valve Anterior Leaflet in vivo Shape on Left Ventricular Ejection. <i>Cardiovascular Engineering and Technology</i> , 2012, 3, 388-401.	1.6	9
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