

Michele Conti

List of Publications by Citations

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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.

99
papers

1,224
citations

19
h-index

29
g-index

117
ext. papers

1,485
ext. citations

2.5
avg, IF

4.54
L-index

#	Paper	IF	Citations
99	Carotid artery stenting simulation: from patient-specific images to finite element analysis. <i>Medical Engineering and Physics</i> , 2011 , 33, 281-9	2.4	121
98	Simulation of transcatheter aortic valve implantation through patient-specific finite element analysis: two clinical cases. <i>Journal of Biomechanics</i> , 2014 , 47, 2547-55	2.9	73
97	Simulation of transcatheter aortic valve implantation: a patient-specific finite element approach. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014 , 17, 1347-57	2.1	62
96	Patient-specific aortic endografting simulation: from diagnosis to prediction. <i>Computers in Biology and Medicine</i> , 2013 , 43, 386-94	7	46
95	The Modified Arch Landing Areas Nomenclature (MALAN) Improves Prediction of Stent Graft Displacement Forces: Proof of Concept by Computational Fluid Dynamics Modelling. <i>European Journal of Vascular and Endovascular Surgery</i> , 2018 , 55, 584-592	2.3	32
94	Patient-specific finite element analysis of carotid artery stenting: a focus on vessel modeling. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2013 , 29, 645-64	2.6	32
93	Impact of carotid stent cell design on vessel scaffolding: a case study comparing experimental investigation and numerical simulations. <i>Journal of Endovascular Therapy</i> , 2011 , 18, 397-406	2.5	32
92	Bioink Composition and Printing Parameters for 3D Modeling Neural Tissue. <i>Cells</i> , 2019 , 8,	7.9	30
91	Fatigue life assessment of cardiovascular balloon-expandable stents: a two-scale plasticity-damage model approach. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 15, 78-92	4.1	30
90	Aortic hemodynamics after thoracic endovascular aortic repair, with particular attention to the bird-beak configuration. <i>Journal of Endovascular Therapy</i> , 2014 , 21, 791-802	2.5	26
89	A computational tool to support pre-operative planning of stentless aortic valve implant. <i>Medical Engineering and Physics</i> , 2011 , 33, 1183-92	2.4	24
88	Fatigue of Metallic Stents: From Clinical Evidence to Computational Analysis. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 287-301	4.7	21
87	Patient-specific simulation of a stentless aortic valve implant: the impact of fibres on leaflet performance. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014 , 17, 277-85	2.1	21
86	Haemodynamic impact of stent-vessel (mal)apposition following carotid artery stenting: mind the gaps!. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013 , 16, 648-59	2.1	21
85	Extensibility and Distensibility of the Thoracic Aorta in Patients with Aneurysm. <i>European Journal of Vascular and Endovascular Surgery</i> , 2017 , 53, 199-205	2.3	20
84	SMA Biomedical Applications 2015 , 307-341		20
83	A computational approach for the lifetime prediction of cardiovascular balloon-expandable stents. <i>International Journal of Fatigue</i> , 2015 , 75, 69-79	5	20

82	Effect of aging on mechanical stresses, deformations, and hemodynamics in human femoropopliteal artery due to limb flexion. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018 , 17, 181-189	3.8	20
81	Comparative Analysis of Porcine and Human Thoracic Aortic Stiffness. <i>European Journal of Vascular and Endovascular Surgery</i> , 2018 , 55, 560-566	2.3	20
80	A nonintrusive proper generalized decomposition scheme with application in biomechanics. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 113, 230-251	2.4	19
79	Embolic protection devices for transcatheter aortic valve replacement. <i>European Journal of Cardio-thoracic Surgery</i> , 2018 , 53, 1118-1126	3	18
78	Multi-objective optimization of nitinol stent design. <i>Medical Engineering and Physics</i> , 2017 , 47, 13-24	2.4	18
77	Innovative and efficient stent flexibility simulations based on isogeometric analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015 , 295, 347-361	5.7	17
76	Patient-specific analysis of post-operative aortic hemodynamics: a focus on thoracic endovascular repair (TEVAR). <i>Computational Mechanics</i> , 2014 , 54, 943-953	4	17
75	3D Automatic Segmentation of Aortic Computed Tomography Angiography Combining Multi-View 2D Convolutional Neural Networks. <i>Cardiovascular Engineering and Technology</i> , 2020 , 11, 576-586	2.2	17
74	Computational simulation of TEVAR in the ascending aorta for optimal endograft selection: A patient-specific case study. <i>Computers in Biology and Medicine</i> , 2018 , 103, 140-147	7	17
73	Stent-Graft Deployment Increases Aortic Stiffness in an Ex Vivo Porcine Model. <i>Annals of Vascular Surgery</i> , 2017 , 43, 302-308	1.7	16
72	Patient-specific finite element analysis of popliteal stenting. <i>Meccanica</i> , 2017 , 52, 633-644	2.1	15
71	A simple framework to generate 3D patient-specific model of coronary artery bifurcation from single-plane angiographic images. <i>Computers in Biology and Medicine</i> , 2014 , 44, 97-109	7	15
70	Evaluation of carotid stent scaffolding through patient-specific finite element analysis. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2012 , 28, 1043-55	2.6	15
69	Finite element analysis of aortic root dilation: a new procedure to reproduce pathology based on experimental data. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2011 , 14, 875-82	2.1	15
68	Geopolymers from low-T activated kaolin: Implications for the use of alunite-bearing raw materials. <i>Applied Clay Science</i> , 2015 , 114, 530-539	5.2	14
67	Changes in aortic pulse wave velocity of four thoracic aortic stent grafts in an ex vivo porcine model. <i>PLoS ONE</i> , 2017 , 12, e0186080	3.7	14
66	Importance of dynamic aortic evaluation in planning TEVAR. <i>Annals of Cardiothoracic Surgery</i> , 2014 , 3, 300-6	4.7	14
65	An experimental investigation of the impact of thoracic endovascular aortic repair on longitudinal strain. <i>European Journal of Cardio-thoracic Surgery</i> , 2016 , 50, 955-961	3	13

64	A clinically applicable stochastic approach for noninvasive estimation of aortic stiffness using computed tomography data. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 176-87	5	13
63	A patient-specific follow up study of the impact of thoracic endovascular repair (TEVAR) on aortic anatomy and on post-operative hemodynamics.. <i>Computers and Fluids</i> , 2016 , 141, 54-61	2.8	13
62	Impact of Thoracic Endovascular Aortic Repair on Pulsatile Circumferential and Longitudinal Strain in Patients With Aneurysm. <i>Journal of Endovascular Therapy</i> , 2017 , 24, 281-289	2.5	12
61	A compliant aortic model for in vitro simulations: Design and manufacturing process. <i>Medical Engineering and Physics</i> , 2018 , 59, 21-29	2.4	12
60	How Constitutive Model Complexity can Affect the Capability to Fit Experimental Data: a Focus on Human Carotid Arteries and Extension/Inflation Data. <i>Archives of Computational Methods in Engineering</i> , 2014 , 21, 273-292	7.8	12
59	Nitinol Embolic Protection Filters: Design Investigation by Finite Element Analysis. <i>Journal of Materials Engineering and Performance</i> , 2009 , 18, 787-792	1.6	12
58	Biomechanical Changes After Thoracic Endovascular Aortic Repair in Type B Dissection: A Systematic Review. <i>Journal of Endovascular Therapy</i> , 2015 , 22, 918-33	2.5	11
57	A novel computational framework to predict patient-specific hemodynamics after TEVAR: Integration of structural and fluid-dynamics analysis by image elaboration. <i>Computers and Fluids</i> , 2019 , 179, 806-819	2.8	11
56	Carotid artery hemodynamics before and after stenting: A patient specific CFD study. <i>Computers and Fluids</i> , 2016 , 141, 62-74	2.8	11
55	Preliminary investigation on a new natural based poly(gamma-glutamic acid)/Chitosan bioink. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 2718-2732	3.5	10
54	Experimental characterization and computational modeling of hydrogel cross-linking for bioprinting applications. <i>International Journal of Artificial Organs</i> , 2019 , 42, 548-557	1.9	10
53	A computational study of the hemodynamic impact of open- versus closed-cell stent design in carotid artery stenting. <i>Artificial Organs</i> , 2013 , 37, E96-106	2.6	10
52	3D Bioprinted Scaffolds Containing Mesenchymal Stem/Stromal Lyosecretome: Next Generation Controlled Release Device for Bone Regenerative Medicine. <i>Pharmaceutics</i> , 2021 , 13,	6.4	10
51	Effectiveness of 3D printed models in the treatment of complex aortic diseases. <i>Journal of Cardiovascular Surgery</i> , 2018 , 59, 699-706	0.7	10
50	Midterm outcomes and evolution of gutter area after endovascular aneurysm repair with the chimney graft procedure. <i>Journal of Vascular Surgery</i> , 2018 , 67, 104-112.e3	3.5	9
49	Left atrial appendage closure guided by 3D computed tomography printing technology: A case control study. <i>Journal of Cardiovascular Computed Tomography</i> , 2019 , 13, 336-339	2.8	9
48	3D printing of aortic models as a teaching tool for improving understanding of aortic disease. <i>Journal of Cardiovascular Surgery</i> , 2019 , 60, 582-588	0.7	7
47	The Modified Arch Landing Areas Nomenclature identifies hostile zones for endograft deployment: a confirmatory biomechanical study in patients treated by thoracic endovascular aortic repair□ <i>European Journal of Cardio-thoracic Surgery</i> , 2019 , 55, 990-997	3	7

46	In Vivo Morphological Changes of the Femoropopliteal Arteries due to Knee Flexion After Endovascular Treatment of Popliteal Aneurysm. <i>Journal of Endovascular Therapy</i> , 2019 , 26, 496-504	2.5	6
45	Patient-specific computational fluid dynamics of femoro-popliteal stent-graft thrombosis. <i>Medical Engineering and Physics</i> , 2020 , 86, 57-64	2.4	6
44	Impact of Thoracic Endovascular Repair on Pulsatile Aortic Strain in Acute Type B Aortic Dissection: Preliminary Results. <i>Aorta</i> , 2017 , 5, 42-52	0.9	6
43	A novel insight into the role of entry tears in type B aortic dissection: pressure measurements in an in vitro model. <i>International Journal of Artificial Organs</i> , 2017 , 40, 563-574	1.9	6
42	Aortic expansion induces lumen narrowing in anomalous coronary arteries: a parametric structural finite element analysis. <i>Journal of Biomechanical Engineering</i> , 2018 ,	2.1	5
41	Numerical simulation of Nitinol peripheral stents: from laser-cutting to deployment in a patient specific anatomy 2009 ,		5
40	Blood Flow after Endovascular Repair in the Aortic Arch: A Computational Analysis. <i>Aorta</i> , 2018 , 6, 81-87	0.9	5
39	A 3D-printed patient-specific model to assist decision making in endovascular treatment of thoracoabdominal aortic aneurysm. <i>Journal of Cardiovascular Surgery</i> , 2018 , 59, 291-293	0.7	5
38	Hospital Factory for Manufacturing Customised, Patient-Specific 3D Anatomic-Functional Models and Prostheses 2019 , 233-254		4
37	SMA Cardiovascular Applications and Computer-Based Design 2015 , 343-367		4
36	Midterm Follow-up Geometrical Analysis of Thoracoabdominal Aortic Aneurysms Treated with Multilayer Flow Modulator. <i>Annals of Vascular Surgery</i> , 2018 , 53, 97-104.e2	1.7	4
35	Contemporary Role of Computational Analysis in Endovascular Treatment for Thoracic Aortic Disease. <i>Aorta</i> , 2013 , 1, 171-81	0.9	4
34	Anomalous aortic origin of coronary artery biomechanical modeling: Toward clinical application. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 ,	1.5	4
33	Impact of leg bending in the patient-specific computational fluid dynamics of popliteal stenting. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2021 , 37, 279-291	2	4
32	Computational Analysis of Advanced Shape-Memory Alloy Devices Through a Robust Modeling Framework. <i>Shape Memory and Superelasticity</i> , 2017 , 3, 109-123	2.8	3
31	Deep Learning to Automatically Segment and Analyze Abdominal Aortic Aneurysm from Computed Tomography Angiography.. <i>Cardiovascular Engineering and Technology</i> , 2022 , 1	2.2	3
30	Assessment of geometrical remodelling of the aortic arch after hybrid treatment. <i>European Journal of Cardio-thoracic Surgery</i> , 2019 , 55, 1045-1053	3	3
29	Twelve-year Follow-up Post-Thoracic Endovascular Repair in Type B Aortic Dissection Shown by Three-dimensional Printing. <i>Annals of Vascular Surgery</i> , 2019 , 55, 309.e13-309.e19	1.7	3

28	Medical image analysis to measure the follow-up geometry of thoraco-abdominal aortic aneurysms treated with multilayer flow modulator stent. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2020 , 8, 126-133	0.9	3
27	Shape fidelity and sterility assessment of 3D printed polycaprolactone and hydroxyapatite scaffolds. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	3
26	Impact of thoracic endovascular aortic repair on radial strain in an ex vivo porcine model. <i>European Journal of Cardio-thoracic Surgery</i> , 2017 , 51, 783-789	3	2
25	An Efficient Finite Element Framework to Assess Flexibility Performances of SMA Self-Expandable Carotid Artery Stents. <i>Journal of Functional Biomaterials</i> , 2015 , 6, 585-97	4.8	2
24	Geometrical Evaluation of Aortic Sac Remodeling During Two-Step Thoracoabdominal Aortic Aneurysm Endovascular Repair. <i>Annals of Vascular Surgery</i> , 2020 , 67, 43-51	1.7	2
23	Endovascular Treatment of an Internal Iliac Artery Aneurysm in a Patient with Previous Aortic Surgery Using a Novel Covered Stent Graft. <i>Annals of Vascular Surgery</i> , 2020 , 64, 412.e15-412.e19	1.7	2
22	Reversed Auxiliary Flow to Reduce Embolism Risk During TAVI: A Computational Simulation and Experimental Study. <i>Cardiovascular Engineering and Technology</i> , 2019 , 10, 124-135	2.2	2
21	Geometric Analysis to Determine Kinking and Shortening of Bridging Stents After Branched Endovascular Aortic Repair. <i>CardioVascular and Interventional Radiology</i> , 2021 , 44, 711-719	2.7	2
20	Three-Dimensional Bioprinted Controlled Release Scaffold Containing Mesenchymal Stem/Stromal Lyosecretome for Bone Regeneration: Sterile Manufacturing and In Vitro Biological Efficacy. <i>Biomedicines</i> , 2022 , 10, 1063	4.8	2
19	2015 ,		1
18	Predictive Computational Models of Transcatheter Aortic Valve Implantation 2019 , 29-46		1
17	Numerical fatigue life assessment of cardiovascular stents: A two-scale plasticity-damage model. <i>Journal of Physics: Conference Series</i> , 2013 , 451, 012031	0.3	1
16	Shape Memory Alloys: Material Modeling and Device Finite Element Simulations. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2011 , 33-42	0.3	1
15	Computational Study of Aortic Hemodynamics: From Simplified to Patient-Specific Geometries. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2016 , 397-407	0.8	1
14	Three-Dimensional Printed Models Can Help Settle Malpractice Litigation Over Surgical Interventions. <i>Annals of Vascular Surgery</i> , 2020 , 65, e292-e294	1.7	0
13	Drag Forces after Thoracic Endovascular Aortic Repair. General Review of the Literature. <i>Annals of Vascular Surgery</i> , 2021 , 75, 479-488	1.7	0
12	Novel Understanding on Thoracic Aortic Diseases from Bioengineering Concepts 2019 , 141-148		
11	Bayesian Estimation of the Aortic Stiffness based on Non-invasive Computed Tomography Images. <i>Springer Proceedings in Mathematics and Statistics</i> , 2015 , 133-142	0.2	

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| 10 | Aortic Biological Prosthetic Valve for Open-Surgery and Percutaneous Implant: Procedure Simulation and Performance Assessment. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2013 , 131-168 | 0.5 |
| 9 | Patient-specific computational fluid dynamics analysis of transcatheter aortic root replacement with chimney coronary grafts. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2021 , 32, 408-416 | 1.8 |
| 8 | Prediction model of isolated iliac and abdominal aneurysms. <i>European Journal of Clinical Investigation</i> , 2021 , 51, e13517 | 4.6 |
| 7 | Activities at Thoracic Aortic Research Center, IRCCS Policlinico San Donato. <i>European Heart Journal Supplements</i> , 2016 , 18, E57-E63 | 1.5 |
| 6 | Aortic Endovascular Surgery. <i>SEMA SIMAI Springer Series</i> , 2018 , 167-184 | 0.2 |
| 5 | Carotid Phase-Contrast Magnetic Resonance before Treatment: 4D-Flow versus Standard 2D Imaging. <i>Tomography</i> , 2021 , 7, 513-522 | 3.1 |
| 4 | Temporary Reperfusion of the Aneurysm Sac as a Prevention of Spinal Cord Ischemia After Endovascular Treatment of Thoracoabdominal Aortic Aneurysm: Systematic Review and Meta-analysis.. <i>Journal of Endovascular Therapy</i> , 2022 , 15266028221082008 | 2.5 |
| 3 | Impact of TEVAR on aortic biomechanics: integration of textit{in-silico} and textit{ex-vivo} analysis using porcine model.. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022 , e3594 ^{2.6} | |
| 2 | Models and simulations as enabling technologies for bioprinting process design 2022 , 137-206 | |
| 1 | Additive Manufacturing: Challenges and Opportunities for Structural Mechanics 2022 , 437-451 | |