

# Michele Conti

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7791276/michele-conti-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Deep Learning to Automatically Segment and Analyze Abdominal Aortic Aneurysm from Computed Tomography Angiography.. <i>Cardiovascular Engineering and Technology</i> , <b>2022</b> , 1	2.2	3
98	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> , <b>2022</b> , 15266028221082008	2.5	
97	Impact of TEVAR on aortic biomechanics: integration of <i>in-silico</i> and <i>ex-vivo</i> analysis using porcine model.. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2022</b> , e3594 <sup>2.6</sup>	2.6	
96	Three-Dimensional Bioprinted Controlled Release Scaffold Containing Mesenchymal Stem/Stromal Lyosecretome for Bone Regeneration: Sterile Manufacturing and In Vitro Biological Efficacy. <i>Biomedicines</i> , <b>2022</b> , 10, 1063	4.8	2
95	Models and simulations as enabling technologies for bioprinting process design <b>2022</b> , 137-206		
94	Additive Manufacturing: Challenges and Opportunities for Structural Mechanics <b>2022</b> , 437-451		
93	Patient-specific computational fluid dynamics analysis of transcatheter aortic root replacement with chimney coronary grafts. <i>Interactive Cardiovascular and Thoracic Surgery</i> , <b>2021</b> , 32, 408-416	1.8	
92	Prediction model of isolated iliac and abdominal aneurysms. <i>European Journal of Clinical Investigation</i> , <b>2021</b> , 51, e13517	4.6	
91	3D Bioprinted Scaffolds Containing Mesenchymal Stem/Stromal Lyosecretome: Next Generation Controlled Release Device for Bone Regenerative Medicine. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	10
90	Geometric Analysis to Determine Kinking and Shortening of Bridging Stents After Branched Endovascular Aortic Repair. <i>CardioVascular and Interventional Radiology</i> , <b>2021</b> , 44, 711-719	2.7	2
89	Impact of leg bending in the patient-specific computational fluid dynamics of popliteal stenting. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2021</b> , 37, 279-291	2	4
88	Drag Forces after Thoracic Endovascular Aortic Repair. General Review of the Literature. <i>Annals of Vascular Surgery</i> , <b>2021</b> , 75, 479-488	1.7	0
87	Shape fidelity and sterility assessment of 3D printed polycaprolactone and hydroxyapatite scaffolds. <i>Journal of Polymer Research</i> , <b>2021</b> , 28, 1	2.7	3
86	Carotid Phase-Contrast Magnetic Resonance before Treatment: 4D-Flow versus Standard 2D Imaging. <i>Tomography</i> , <b>2021</b> , 7, 513-522	3.1	
85	Patient-specific computational fluid dynamics of femoro-popliteal stent-graft thrombosis. <i>Medical Engineering and Physics</i> , <b>2020</b> , 86, 57-64	2.4	6
84	Preliminary investigation on a new natural based poly( $\gamma$ -glutamic acid)/Chitosan bioink. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2020</b> , 108, 2718-2732	3.5	10
83	Three-Dimensional Printed Models Can Help Settle Malpractice Litigation Over Surgical Interventions. <i>Annals of Vascular Surgery</i> , <b>2020</b> , 65, e292-e294	1.7	0

82	Geometrical Evaluation of Aortic Sac Remodeling During Two-Step Thoracoabdominal Aortic Aneurysm Endovascular Repair. <i>Annals of Vascular Surgery</i> , <b>2020</b> , 67, 43-51	1.7	2
81	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> , <b>2020</b> , 64, 412.e15-412.e19	1.7	2
80	3D Automatic Segmentation of Aortic Computed Tomography Angiography Combining Multi-View 2D Convolutional Neural Networks. <i>Cardiovascular Engineering and Technology</i> , <b>2020</b> , 11, 576-586	2.2	17
79	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> , <b>2020</b> , 8, 126-133	0.9	3
78	Anomalous aortic origin of coronary artery biomechanical modeling: Toward clinical application. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2020</b> ,	1.5	4
77	In Vivo Morphological Changes of the Femoropopliteal Arteries due to Knee Flexion After Endovascular Treatment of Popliteal Aneurysm. <i>Journal of Endovascular Therapy</i> , <b>2019</b> , 26, 496-504	2.5	6
76	Novel Understanding on Thoracic Aortic Diseases from Bioengineering Concepts <b>2019</b> , 141-148		
75	Hospital Factory for Manufacturing Customised, Patient-Specific 3D Anatomic-Functional Models and Prostheses <b>2019</b> , 233-254		4
74	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> , <b>2019</b> , 179, 806-819	2.8	11
73	Bioink Composition and Printing Parameters for 3D Modeling Neural Tissue. <i>Cells</i> , <b>2019</b> , 8,	7.9	30
72	Predictive Computational Models of Transcatheter Aortic Valve Implantation <b>2019</b> , 29-46		1
71	Experimental characterization and computational modeling of hydrogel cross-linking for bioprinting applications. <i>International Journal of Artificial Organs</i> , <b>2019</b> , 42, 548-557	1.9	10
70	3D printing of aortic models as a teaching tool for improving understanding of aortic disease. <i>Journal of Cardiovascular Surgery</i> , <b>2019</b> , 60, 582-588	0.7	7
69	Assessment of geometrical remodelling of the aortic arch after hybrid treatment. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2019</b> , 55, 1045-1053	3	3
68	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> , <b>2019</b> , 55, 990-997	3	7
67	Reversed Auxiliary Flow to Reduce Embolism Risk During TAVI: A Computational Simulation and Experimental Study. <i>Cardiovascular Engineering and Technology</i> , <b>2019</b> , 10, 124-135	2.2	2
66	Left atrial appendage closure guided by 3D computed tomography printing technology: A case control study. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2019</b> , 13, 336-339	2.8	9
65	Twelve-year Follow-up Post-Thoracic Endovascular Repair in Type B Aortic Dissection Shown by Three-dimensional Printing. <i>Annals of Vascular Surgery</i> , <b>2019</b> , 55, 309.e13-309.e19	1.7	3

64	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> , <b>2018</b> , 55, 584-592	2.3	32
63	Emboic protection devices for transcatheter aortic valve replacement. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2018</b> , 53, 1118-1126	3	18
62	Midterm outcomes and evolution of gutter area after endovascular aneurysm repair with the chimney graft procedure. <i>Journal of Vascular Surgery</i> , <b>2018</b> , 67, 104-112.e3	3.5	9
61	A nonintrusive proper generalized decomposition scheme with application in biomechanics. <i>International Journal for Numerical Methods in Engineering</i> , <b>2018</b> , 113, 230-251	2.4	19
60	Midterm Follow-up Geometrical Analysis of Thoracoabdominal Aortic Aneurysms Treated with Multilayer Flow Modulator. <i>Annals of Vascular Surgery</i> , <b>2018</b> , 53, 97-104.e2	1.7	4
59	A compliant aortic model for in vitro simulations: Design and manufacturing process. <i>Medical Engineering and Physics</i> , <b>2018</b> , 59, 21-29	2.4	12
58	Aortic expansion induces lumen narrowing in anomalous coronary arteries: a parametric structural finite element analysis. <i>Journal of Biomechanical Engineering</i> , <b>2018</b> ,	2.1	5
57	Effect of aging on mechanical stresses, deformations, and hemodynamics in human femoropopliteal artery due to limb flexion. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2018</b> , 17, 181-189	3.8	20
56	Blood Flow after Endovascular Repair in the Aortic Arch: A Computational Analysis. <i>Aorta</i> , <b>2018</b> , 6, 81-87	0.9	5
55	A 3D-printed patient-specific model to assist decision making in endovascular treatment of thoracoabdominal aortic aneurysm. <i>Journal of Cardiovascular Surgery</i> , <b>2018</b> , 59, 291-293	0.7	5
54	Aortic Endovascular Surgery. <i>SEMA SIMAI Springer Series</i> , <b>2018</b> , 167-184	0.2	
53	Computational simulation of TEVAR in the ascending aorta for optimal endograft selection: A patient-specific case study. <i>Computers in Biology and Medicine</i> , <b>2018</b> , 103, 140-147	7	17
52	Comparative Analysis of Porcine and Human Thoracic Aortic Stiffness. <i>European Journal of Vascular and Endovascular Surgery</i> , <b>2018</b> , 55, 560-566	2.3	20
51	Effectiveness of 3D printed models in the treatment of complex aortic diseases. <i>Journal of Cardiovascular Surgery</i> , <b>2018</b> , 59, 699-706	0.7	10
50	Patient-specific finite element analysis of popliteal stenting. <i>Meccanica</i> , <b>2017</b> , 52, 633-644	2.1	15
49	Impact of thoracic endovascular aortic repair on radial strain in an ex vivo porcine model. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2017</b> , 51, 783-789	3	2
48	Impact of Thoracic Endovascular Aortic Repair on Pulsatile Circumferential and Longitudinal Strain in Patients With Aneurysm. <i>Journal of Endovascular Therapy</i> , <b>2017</b> , 24, 281-289	2.5	12
47	Stent-Graft Deployment Increases Aortic Stiffness in an Ex Vivo Porcine Model. <i>Annals of Vascular Surgery</i> , <b>2017</b> , 43, 302-308	1.7	16

46	Computational Analysis of Advanced Shape-Memory Alloy Devices Through a Robust Modeling Framework. <i>Shape Memory and Superelasticity</i> , <b>2017</b> , 3, 109-123	2.8	3
45	Extensibility and Distensibility of the Thoracic Aorta in Patients with Aneurysm. <i>European Journal of Vascular and Endovascular Surgery</i> , <b>2017</b> , 53, 199-205	2.3	20
44	Impact of Thoracic Endovascular Repair on Pulsatile Aortic Strain in Acute Type B Aortic Dissection: Preliminary Results. <i>Aorta</i> , <b>2017</b> , 5, 42-52	0.9	6
43	Multi-objective optimization of nitinol stent design. <i>Medical Engineering and Physics</i> , <b>2017</b> , 47, 13-24	2.4	18
42	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> , <b>2017</b> , 40, 563-574	1.9	6
41	Changes in aortic pulse wave velocity of four thoracic aortic stent grafts in an ex vivo porcine model. <i>PLoS ONE</i> , <b>2017</b> , 12, e0186080	3.7	14
40	Fatigue of Metallic Stents: From Clinical Evidence to Computational Analysis. <i>Annals of Biomedical Engineering</i> , <b>2016</b> , 44, 287-301	4.7	21
39	An experimental investigation of the impact of thoracic endovascular aortic repair on longitudinal strain. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2016</b> , 50, 955-961	3	13
38	Carotid artery hemodynamics before and after stenting: A patient specific CFD study. <i>Computers and Fluids</i> , <b>2016</b> , 141, 62-74	2.8	11
37	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> , <b>2016</b> , 141, 54-61	2.8	13
36	Activities at Thoracic Aortic Research Center, IRCCS Policlinico San Donato. <i>European Heart Journal Supplements</i> , <b>2016</b> , 18, E57-E63	1.5	
35	Computational Study of Aortic Hemodynamics: From Simplified to Patient-Specific Geometries. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2016</b> , 397-407	0.8	1
34	Innovative and efficient stent flexibility simulations based on isogeometric analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2015</b> , 295, 347-361	5.7	17
33	Geopolymers from low-T activated kaolin: Implications for the use of alunite-bearing raw materials. <i>Applied Clay Science</i> , <b>2015</b> , 114, 530-539	5.2	14
32	Biomechanical Changes After Thoracic Endovascular Aortic Repair in Type B Dissection: A Systematic Review. <i>Journal of Endovascular Therapy</i> , <b>2015</b> , 22, 918-33	2.5	11
31	<b>2015</b> ,		1
30	Bayesian Estimation of the Aortic Stiffness based on Non-invasive Computed Tomography Images. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2015</b> , 133-142	0.2	
29	SMA Biomedical Applications <b>2015</b> , 307-341		20

28	SMA Cardiovascular Applications and Computer-Based Design <b>2015</b> , 343-367		4
27	An Efficient Finite Element Framework to Assess Flexibility Performances of SMA Self-Expandable Carotid Artery Stents. <i>Journal of Functional Biomaterials</i> , <b>2015</b> , 6, 585-97	4.8	2
26	A clinically applicable stochastic approach for noninvasive estimation of aortic stiffness using computed tomography data. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2015</b> , 62, 176-87	5	13
25	A computational approach for the lifetime prediction of cardiovascular balloon-expandable stents. <i>International Journal of Fatigue</i> , <b>2015</b> , 75, 69-79	5	20
24	Patient-specific analysis of post-operative aortic hemodynamics: a focus on thoracic endovascular repair (TEVAR). <i>Computational Mechanics</i> , <b>2014</b> , 54, 943-953	4	17
23	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> , <b>2014</b> , 21, 273-292	7.8	12
22	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> , <b>2014</b> , 44, 97-109	7	15
21	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> , <b>2014</b> , 17, 277-85	2.1	21
20	Simulation of transcatheter aortic valve implantation through patient-specific finite element analysis: two clinical cases. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 2547-55	2.9	73
19	Simulation of transcatheter aortic valve implantation: a patient-specific finite element approach. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2014</b> , 17, 1347-57	2.1	62
18	Aortic hemodynamics after thoracic endovascular aortic repair, with particular attention to the bird-beak configuration. <i>Journal of Endovascular Therapy</i> , <b>2014</b> , 21, 791-802	2.5	26
17	Importance of dynamic aortic evaluation in planning TEVAR. <i>Annals of Cardiothoracic Surgery</i> , <b>2014</b> , 3, 300-6	4.7	14
16	Haemodynamic impact of stent-vessel (mal)apposition following carotid artery stenting: mind the gaps!. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2013</b> , 16, 648-59	2.1	21
15	Numerical fatigue life assessment of cardiovascular stents: A two-scale plasticity-damage model. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 451, 012031	0.3	1
14	Patient-specific aortic endografting simulation: from diagnosis to prediction. <i>Computers in Biology and Medicine</i> , <b>2013</b> , 43, 386-94	7	46
13	Patient-specific finite element analysis of carotid artery stenting: a focus on vessel modeling. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2013</b> , 29, 645-64	2.6	32
12	A computational study of the hemodynamic impact of open- versus closed-cell stent design in carotid artery stenting. <i>Artificial Organs</i> , <b>2013</b> , 37, E96-106	2.6	10
11	Aortic Biological Prosthetic Valve for Open-Surgery and Percutaneous Implant: Procedure Simulation and Performance Assessment. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , <b>2013</b> , 131-168	0.5	

10	Contemporary Role of Computational Analysis in Endovascular Treatment for Thoracic Aortic Disease. <i>Aorta</i> , <b>2013</b> , 1, 171-81	0.9	4
9	Evaluation of carotid stent scaffolding through patient-specific finite element analysis. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2012</b> , 28, 1043-55	2.6	15
8	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> , <b>2012</b> , 15, 78-92	4.1	30
7	A computational tool to support pre-operative planning of stentless aortic valve implant. <i>Medical Engineering and Physics</i> , <b>2011</b> , 33, 1183-92	2.4	24
6	Carotid artery stenting simulation: from patient-specific images to finite element analysis. <i>Medical Engineering and Physics</i> , <b>2011</b> , 33, 281-9	2.4	121
5	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> , <b>2011</b> , 14, 875-82	2.1	15
4	Impact of carotid stent cell design on vessel scaffolding: a case study comparing experimental investigation and numerical simulations. <i>Journal of Endovascular Therapy</i> , <b>2011</b> , 18, 397-406	2.5	32
3	Shape Memory Alloys: Material Modeling and Device Finite Element Simulations. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , <b>2011</b> , 33-42	0.3	1
2	Nitinol Embolic Protection Filters: Design Investigation by Finite Element Analysis. <i>Journal of Materials Engineering and Performance</i> , <b>2009</b> , 18, 787-792	1.6	12
1	Numerical simulation of Nitinol peripheral stents: from laser-cutting to deployment in a patient specific anatomy <b>2009</b> ,		5