

Marco A Zenati

List of Publications by Year in Descending Order

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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.

112
papers

1,190
citations

20
h-index

31
g-index

125
ext. papers

1,433
ext. citations

4
avg, IF

4.32
L-index

#	Paper	IF	Citations
112	A Coding Framework for Usability Evaluation of Digital Health Technologies. <i>Lecture Notes in Computer Science</i> , 2022 , 185-196	0.9	
111	Augmented Cognition in the Operating Room 2021 , 261-268		2
110	Commentary: The need for emotional intelligence coaching in cardiothoracic surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 , 162, 1141-1142	1.5	1
109	Intermediate-Term Outcomes of Endoscopic or Open Vein Harvesting for Coronary Artery Bypass Grafting: The REGROUP Randomized Clinical Trial. <i>JAMA Network Open</i> , 2021 , 4, e211439	10.4	1
108	Towards an AI Coach to Infer Team Mental Model Alignment in Healthcare. 2021 , 2021, 39-44		3
107	Prevalence of Surgical Flow Disruptions Across Intra-operative High- and Low-Workload Phases in Cardiac Surgery. <i>Proceedings of the International Symposium of Human Factors and Ergonomics in Healthcare</i> , 2021 , 10, 263-266	0.5	
106	Dissecting Cardiac Surgery: A Video-based Recall Protocol to Elucidate Team Cognitive Processes in the Operating Room. <i>Annals of Surgery</i> , 2021 , 274, e181-e186	7.8	8
105	Commentary: The conundrum of cerebral malperfusion in aortic dissection. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 , 161, 1721	1.5	1
104	Analysis of Mirrored Psychophysiological Change of Cardiac Surgery Team Members During Open Surgery. <i>Journal of Surgical Education</i> , 2021 , 78, 622-629	3.4	7
103	Computer Vision in the Operating Room: Opportunities and Caveats. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2021 , 3, 2-10	3.1	5
102	Commentary: Nontechnical skills redux. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 ,	1.5	
101	Fraction of expired oxygen: an additional safety approach to monitor oxygen delivery to the heart lung machine oxygenator. <i>Perfusion (United Kingdom)</i> , 2021 , 2676591211001594	1.9	
100	Harvesting the saphenous vein 2021 , 75-83		1
99	Randomized Trials in Cardiac Surgery: JACC Review Topic of the Week. <i>Journal of the American College of Cardiology</i> , 2020 , 75, 1593-1604	15.1	15
98	Artificial intelligence in cardiothoracic surgery. <i>Minerva Cardioangiologica</i> , 2020 , 68, 532-538	1.1	6
97	Feasibility of Healthcare Providers' Autonomic Activation Recognition in Real-Life Cardiac Surgery Using Noninvasive Sensors. <i>Communications in Computer and Information Science</i> , 2020 , 1293, 402-408	0.3	0
96	Postoperative Echocardiographic Appearance of the Mitral Valve After Nonresectional Leaflet Remodeling Repair Mimicking Thrombus. <i>Circulation: Cardiovascular Imaging</i> , 2020 , 13, e009853	3.9	

95	Commentary: Another Dutch treat. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 , 159, 1893-1894.	1.5	
94	Cognitive Engineering to Improve Patient Safety and Outcomes in Cardiothoracic Surgery. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2020 , 32, 1-7	1.7	16
93	Epi-aortic Ultrasound for Assessment of Intraluminal Atheroma; Insights from the REGROUP Trial. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2020 , 34, 726-732	2.1	4
92	Sensors for Continuous Monitoring of Surgeon's Cognitive Workload in the Cardiac Operating Room. <i>Sensors</i> , 2020 , 20,	3.8	3
91	Digital Cognitive Aids to Support Adaptation of Surgical Processes to COVID-19 Protective Policies 2020 , 2020, 205-210		
90	Endoscopic versus Open Vein-Graft Harvesting for CABG. Reply. <i>New England Journal of Medicine</i> , 2019 , 380, e43	59.2	1
89	Physiological synchronization and entropy as measures of team cognitive load. <i>Journal of Biomedical Informatics</i> , 2019 , 96, 103250	10.2	17
88	Establishing a Ventilator-Heart Lung Machine Communication Bridge to Mitigate Errors when Weaning from Bypass. <i>Journal of Extra-Corporeal Technology</i> , 2019 , 51, 38-40	0.4	1
87	A Quick Reference Tool for Goal-Directed Perfusion in Cardiac Surgery. <i>Journal of Extra-Corporeal Technology</i> , 2019 , 51, 172-174	0.4	0
86	Organ-mounted robot localization via function approximation. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2019 , 15, e1971	2.9	
85	Randomized Trial of Endoscopic or Open Vein-Graft Harvesting for Coronary-Artery Bypass. <i>New England Journal of Medicine</i> , 2019 , 380, 132-141	59.2	51
84	First Reported Use of Team Cognitive Workload for Root Cause Analysis in Cardiac Surgery. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2019 , 31, 394-396	1.7	8
83	Beating-heart registration for organ-mounted robots. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2018 , 14, e1905	2.9	2
82	Mitral valve surgery in the US Veterans Administration health system: 10-year outcomes and trends. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 155, 105-117.e5	1.5	15
81	Cutting off the lizard's tail in surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 156, 1220-1221.	1.5	3
80	Cognitive Support to Promote Shared Mental Models during Safety-Critical Situations in Cardiac Surgery (Late Breaking Report) 2018 , 2018, 165-167		7
79	Development of an Interactive Dashboard to Analyze Cognitive Workload of Surgical Teams During Complex Procedural Care 2018 , 2018, 77-82		8
78	Process Driven Guidance for Complex Surgical Procedures 2018 , 2018, 175-184	0.7	4

77	A Novel Interoperable Safety System for Improved Coordination and Communication in Cardiac Surgery. <i>Lecture Notes in Computer Science</i> , 2018 , 11041, 39-45	0.9	2
76	Intelligent Interruption Management System to Enhance Safety and Performance in Complex Surgical and Robotic Procedures. <i>Lecture Notes in Computer Science</i> , 2018 , 11041, 62-68	0.9	6
75	Toward Improving Surgical Outcomes by Incorporating Cognitive Load Measurement into Process-Driven Guidance 2018 , 2018, 2-9		5
74	Off-Pump Coronary Artery Bypass Grafting: 30 Years of Debate. <i>Journal of the American Heart Association</i> , 2018 , 7, e009934	6	33
73	Physiological motion modeling for organ-mounted robots. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2017 , 13, e1805	2.9	3
72	Cognitive Support During High-Consequence Episodes of Care in Cardiovascular Surgery 2017 , 2017,		6
71	Data Safety Monitoring Board: Composition and Role 2017 , 329-334		1
70	Computer-Assisted Process Modeling to Enhance Intraoperative Safety in Cardiac Surgery. <i>JAMA Surgery</i> , 2016 , 151, 1183-1186	5.4	1
69	Design of a Coupled Thermoresponsive Hydrogel and Robotic System for Postinfarct Biomaterial Injection Therapy. <i>Annals of Thoracic Surgery</i> , 2016 , 102, 780-786	2.7	18
68	Choice of vein-harvest technique for coronary artery bypass grafting: rationale and design of the REGROUP trial. <i>Clinical Cardiology</i> , 2014 , 37, 325-30	3.3	14
67	Space-Time Localization and Registration on the Beating Heart. <i>IEEE International Conference on Intelligent Robots and Systems</i> , 2013 , 2012, 3792-3797	0.6	
66	Conduits in coronary artery bypass grafting. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2013 , 25, 273-9	1.7	3
65	Evaluation and management of the atrial fibrillation patient: a report from the Society of Cardiovascular Patient Care. <i>Critical Pathways in Cardiology</i> , 2013 , 12, 107-15	1.3	4
64	Predictors and impact of postoperative atrial fibrillation on patients' outcomes: a report from the Randomized On Versus Off Bypass trial. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012 , 143, 93-102	1.5	51
63	Towards localizing on the surface of the beating heart. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 1413-6	0.9	1
62	Toward Onboard Estimation of Physiological Phase for an Epicardial Crawling Robot 2012 , 2012, 629071-63		3
61	Synchronization of epicardial crawling robot with heartbeat and respiration for improved safety and efficiency of locomotion. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2012 , 8, 97-106	2.9	11
60	Outcomes of coronary artery bypass grafting and reduction annuloplasty for functional ischemic mitral regurgitation: a prospective multicenter study (Randomized Evaluation of a Surgical Treatment for Off-Pump Repair of the Mitral Valve). <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2011 , 141, 81-7	1.5	33

59	Impact of endoscopic versus open saphenous vein harvest technique on late coronary artery bypass grafting patient outcomes in the ROOBY (Randomized On/Off Bypass) Trial. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2011 , 141, 338-44	1.5	103
58	Shape estimation for image-guided surgery with a highly articulated snake robot 2011 ,		27
57	Position Estimation of an Epicardial Crawling Robot on the Beating Heart by Modeling of Physiological Motion. <i>IEEE International Conference on Intelligent Robots and Systems</i> , 2011 , 2011, 4522-4527	0.6	3
56	Fourier modeling of porcine heartbeat and respiration in vivo for synchronization of HeartLander robot locomotion. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 7041-4	0.9	1
55	Accurate Positioning for Intervention on the Beating Heart Using a Crawling Robot 2011 , 105-121		
54	Application of the HeartLander crawling robot for injection of a thermally sensitive anti-remodeling agent for myocardial infarction therapy. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 5100-5103	0.9	3
53	Evaluation in vitro of a treatment planning algorithm for an epicardial crawling robot. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 2275-8	0.9	
52	Impact of Subxiphoid Video Pericardioscopy with a Rigid Shaft on Cardiac Hemodynamics in a Porcine Model. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2010 , 5, 51-54	1.5	5
51	Measurement and Optimization of Minimally Invasive Intervention Device Design Fitness Using a Multiobjective Weighted Isotropy Index. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2010 , 4,	1.3	2
50	Subxiphoid epicardial left ventricular pacing lead placement is feasible. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2010 , 139, 1661-2	1.5	2
49	Severe functional mitral regurgitation arising from isolated annular dilatation. <i>Annals of Thoracic Surgery</i> , 2010 , 90, 1343-5	2.7	20
48	Impact of Subxiphoid Video Pericardioscopy with a Rigid Shaft on Cardiac Hemodynamics in a Porcine Model. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2010 , 5, 51-54	1.5	
47	A Miniature Mobile Robot for Navigation and Positioning on the Beating Heart. <i>IEEE Transactions on Robotics</i> , 2009 , 25, 1109-1124	6.5	49
46	A highly articulated robotic surgical system for minimally invasive surgery. <i>Annals of Thoracic Surgery</i> , 2009 , 87, 1253-6	2.7	91
45	A fusion protein of hepatocyte growth factor enhances reconstruction of myocardium in a cardiac patch derived from porcine urinary bladder matrix. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2008 , 136, 1309-17	1.5	57
44	Highly fenestrated septum primum leads to failure of Amplatzer septal defect closure. <i>Annals of Thoracic Surgery</i> , 2008 , 86, 998-1000	2.7	3
43	Minimally invasive epicardial left atrial ablation and appendectomy for refractory atrial tachycardia. <i>Annals of Thoracic Surgery</i> , 2008 , 86, 1375-7	2.7	5
42	Minimally invasive epicardial injections using a novel semiautonomous robotic device. <i>Circulation</i> , 2008 , 118, S115-20	16.7	38

41	A novel highly articulated robotic surgical system for epicardial ablation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 250-3	0.9	15
40	Electromechanical characterization of a tissue-engineered myocardial patch derived from extracellular matrix. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007 , 133, 979-85	1.5	37
39	Impact of beating heart left atrial ablation on left-sided heart mechanics. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007 , 134, 982-8	1.5	3
38	Epicardial left ventricular mapping using subxiphoid video pericardioscopy. <i>Annals of Thoracic Surgery</i> , 2007 , 84, 2106-7	2.7	22
37	Electrophysiological Basis of Atrial Fibrillation 2007 , 18-3		
36	Neurological Basis of Atrial Fibrillation 2007 , 19-28		
35	Mechanical Basis of Atrial Fibrillation 2007 , 29-49		
34	Molecular Basis of Atrial Fibrillation 2007 , 50-64		
33	Atrial Plasticity 2007 , 65-84		
32	Atrioventricular Node Ablation 2007 , 87-92		
31	Percutaneous Atrial Catheter Ablation 2007 , 93-112		
30	Implantable Device Therapy 2007 , 113-130		
29	Surgical Ablation Therapy I: Maze Procedure 2007 , 131-137		
28	Surgical Ablation Therapy II: Endocardium-Based Catheter Ablation 2007 , 138-145		
27	Surgical Ablation Therapy III: Epicardium-Based Catheter Ablation 2007 , 146-151		
26	Modification of the Left Atrial Appendage 2007 , 152-156		
25	Transpericardial Therapy 2007 , 159-170		
24	Percutaneous subxiphoid access to the epicardium using a miniature crawling robotic device. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2006 , 1, 227-31	1.5	8

23	Epicardial Atrial Ablation Using a Novel Articulated Robotic Medical Probe via a Percutaneous Subxiphoid Approach. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2006 , 1, 335-340	1.5	
22	Epicardial Atrial Ablation Using a Novel Articulated Robotic Medical Probe Via a Percutaneous Subxiphoid Approach. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2006 , 1, 335-340	1.5	20
21	Robotic implantation of a multichamber cardiac resynchronization therapy defibrillator. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2006 , 29, 906-9	1.6	8
20	Percutaneous Subxiphoid Access to the Epicardium Using a Miniature Crawling Robotic Device. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2006 , 1, 227-231	1.5	
19	Serial dobutamine stress echocardiography with Doppler assessment of the left internal thoracic artery graft after minimally invasive bypass for a patient with an orthotopic heart transplant. <i>Journal of Heart and Lung Transplantation</i> , 2004 , 23, 256-9	5.8	2
18	Prototype epicardial crawling device for intrapericardial intervention on the beating heart. <i>Heart Surgery Forum</i> , 2004 , 7, E639-43	0.7	18
17	Crawling on the Heart: A Mobile Robotic Device for Minimally Invasive Cardiac Interventions. <i>Lecture Notes in Computer Science</i> , 2004 , 9-16	0.9	10
16	Microelectromechanical systems for endoscopic cardiac surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2003 , 126, 851-2	1.5	8
15	A new device for beating heart bipolar radiofrequency atrial ablation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2003 , 126, 1859-66	1.5	22
14	Epicardium-based left atrial ablation: impact on electromechanical properties. <i>Journal of Cardiovascular Electrophysiology</i> , 2003 , 14, 1087-92	2.7	5
13	Left heart pacing lead implantation using subxiphoid videopericardioscopy. <i>Journal of Cardiovascular Electrophysiology</i> , 2003 , 14, 949-53	2.7	46
12	Experimental Off-Pump Coronary Bypass Using a Robotic Telemanipulation System. <i>Computer Aided Surgery</i> , 2002 , 7, 248-253		1
11	Images in cardiovascular medicine. Fulminant Clostridium septicum aortitis. <i>Circulation</i> , 2002 , 105, 1871	16.7	10
10	Outcomes of lung volume reduction surgery followed by lung transplantation: a matched cohort study. <i>Annals of Thoracic Surgery</i> , 2002 , 73, 1587-93	2.7	31
9	Experimental off-pump coronary bypass using a robotic telemanipulation system. <i>Computer Aided Surgery</i> , 2002 , 7, 248-53		
8	A new live animal training model for off-pump coronary bypass surgery. <i>Heart Surgery Forum</i> , 2002 , 5, 150-1	0.7	2
7	Minimally invasive direct coronary artery bypass surgery under high thoracic epidural. <i>Anesthesia and Analgesia</i> , 2001 , 93, 1486-8, table of contents	3.9	11
6	Minimally invasive coronary bypass without general endotracheal anesthesia. <i>Annals of Thoracic Surgery</i> , 2001 , 72, 1380-2	2.7	9

5	Robotic heart surgery. <i>Cardiology in Review</i> , 2001 , 9, 287-94	3.2	26
4	Transmyocardial laser revascularization in the patient with unmanageable unstable angina. <i>Annals of Thoracic Surgery</i> , 1999 , 68, 1203-9	2.7	35
3	Lung transplantation for respiratory failure resulting from systemic disease. <i>Annals of Thoracic Surgery</i> , 1997 , 64, 1630-4	2.7	46
2	Shape estimation for image-guided surgery with a highly articulated snake robot		1
1	Articulated Robotic MedProbe snake robot for single port surgery284-287		