

Giovanni Biglino

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

1,788
citations

279778

23
h-index

302107

39
g-index

96
all docs

96
docs citations

96
times ranked

2027
citing authors

#	ARTICLE	IF	CITATIONS
1	3D-manufactured patient-specific models of congenital heart defects for communication in clinical practice: feasibility and acceptability. <i>BMJ Open</i> , 2015, 5, e007165-e007165.	1.9	176
2	Prognostic Role of CMR and Conventional Risk Factors in Myocardial Infarction With Nonobstructed Coronary Arteries. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 1973-1982.	5.3	148
3	Rapid prototyping compliant arterial phantoms for in-vitro studies and device testing. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 2.	3.3	130
4	Piloting the Use of Patient-Specific Cardiac Models as a Novel Tool to Facilitate Communication During Clinical Consultations. <i>Pediatric Cardiology</i> , 2017, 38, 813-818.	1.3	88
5	Use of 3D models of congenital heart disease as an education tool for cardiac nurses. <i>Congenital Heart Disease</i> , 2017, 12, 113-118.	0.2	82
6	Predictive modeling of the virtual Hemi-Fontan operation for second stage single ventricle palliation: Two patient-specific cases. <i>Journal of Biomechanics</i> , 2013, 46, 423-429.	2.1	71
7	A statistical shape modelling framework to extract 3D shape biomarkers from medical imaging data: assessing arch morphology of repaired coarctation of the aorta. <i>BMC Medical Imaging</i> , 2016, 16, 40.	2.7	65
8	How successful is successful? Aortic arch shape after successful aortic coarctation repair correlates with left ventricular function. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017, 153, 418-427.	0.8	61
9	An integrated approach to patient-specific predictive modeling for single ventricle heart palliation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2014, 17, 1572-1589.	1.6	55
10	Computational modelling for congenital heart disease: how far are we from clinical translation?. <i>Heart</i> , 2017, 103, 98-103.	2.9	55
11	Robust Revascularization in Models of Limb Ischemia Using a Clinically Translatable Human Stem Cell-Derived Endothelial Cell Product. <i>Molecular Therapy</i> , 2018, 26, 1669-1684.	8.2	48
12	A non-invasive clinical application of wave intensity analysis based on ultrahigh temporal resolution phase-contrast cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, 65.	3.3	45
13	Using 4D Cardiovascular Magnetic Resonance Imaging to Validate Computational Fluid Dynamics: A Case Study. <i>Frontiers in Pediatrics</i> , 2015, 3, 107.	1.9	42
14	A Mock Circulatory System With Physiological Distribution of Terminal Resistance and Compliance: Application for Testing the Intra-Aortic Balloon Pump. <i>Artificial Organs</i> , 2012, 36, E62-70.	1.9	40
15	Involving patients, families and medical staff in the evaluation of 3D printing models of congenital heart disease. <i>Communication and Medicine</i> , 2016, 12, 157-69.	0.2	35
16	Aortic arch shape is not associated with hypertensive response to exercise in patients with repaired congenital heart diseases. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 101.	3.3	32
17	In Vitro Study of the Norwood Palliation. <i>ASAIO Journal</i> , 2012, 58, 25-31.	1.6	31
18	A Mock Circulatory System Incorporating a Compliant 3D-Printed Anatomical Model to Investigate Pulmonary Hemodynamics. <i>Artificial Organs</i> , 2017, 41, 637-646.	1.9	31

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19	Current and future applications of 3D printing in congenital cardiology and cardiac surgery. <i>British Journal of Radiology</i> , 2019, 92, 20180389.	2.2	30
20	The Perception of a Three-Dimensional-Printed Heart Model from the Perspective of Different Stakeholders: A Complex Case of Truncus Arteriosus. <i>Frontiers in Pediatrics</i> , 2017, 5, 209.	1.9	29
21	Ventriculoarterial coupling in palliated hypoplastic left heart syndrome: Noninvasive assessment of the effects of surgical arch reconstruction and shunt type. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 1526-1533.	0.8	27
22	Aortic morphological variability in patients with bicuspid aortic valve and aortic coarctation. <i>European Journal of Cardio-thoracic Surgery</i> , 2019, 55, 704-713.	1.4	27
23	Looks Do Matter! Aortic Arch Shape After Hypoplastic Left Heart Syndrome Palliation Correlates With Cavopulmonary Outcomes. <i>Annals of Thoracic Surgery</i> , 2017, 103, 645-654.	1.3	26
24	Magnetic Resonance Imaging to Detect Cardiovascular Effects of Cancer Therapy. <i>JACC: CardioOncology</i> , 2020, 2, 270-292.	4.0	26
25	In vitro simulation and validation of the circulation with congenital heart defects. <i>Progress in Pediatric Cardiology</i> , 2010, 30, 71-80.	0.4	25
26	Evaluating 3D-printed models of coronary anomalies: a survey among clinicians and researchers at a university hospital in the UK. <i>BMJ Open</i> , 2019, 9, e025227.	1.9	23
27	Virtual and real bench testing of a new percutaneous valve device: a case study. <i>EuroIntervention</i> , 2012, 8, 120-128.	3.2	20
28	Three-Dimensional Printing of Fetal Models of Congenital Heart Disease Derived From Microfocus Computed Tomography: A Case Series. <i>Frontiers in Pediatrics</i> , 2019, 7, 567.	1.9	18
29	Finite Element Strategies to Satisfy Clinical and Engineering Requirements in the Field of Percutaneous Valves. <i>Annals of Biomedical Engineering</i> , 2012, 40, 2663-2673.	2.5	17
30	Integration of Clinical Data Collected at Different Times for Virtual Surgery in Single Ventricle Patients: A Case Study. <i>Annals of Biomedical Engineering</i> , 2015, 43, 1310-1320.	2.5	15
31	Enlightening the Association between Bicuspid Aortic Valve and Aortopathy. <i>Journal of Cardiovascular Development and Disease</i> , 2018, 5, 21.	1.6	15
32	The use of 3D-printed models in patient communication: a scoping review. <i>Journal of 3D Printing in Medicine</i> , 2022, 6, 13-23.	2.0	15
33	Peak Troponin and CMR to Guide Management in Suspected ACS and Nonobstructive Coronary Arteries. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 1578-1587.	5.3	15
34	Modeling single ventricle physiology: review of engineering tools to study first stage palliation of hypoplastic left heart syndrome. <i>Frontiers in Pediatrics</i> , 2013, 1, 31.	1.9	14
35	Use of 3D Models in the Surgical Decision-Making Process in a Case of Double-Outlet Right Ventricle With Multiple Ventricular Septal Defects. <i>Frontiers in Pediatrics</i> , 2019, 7, 330.	1.9	14
36	MicroRNAs as potential biomarkers in congenital heart surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020, 159, 1532-1540.e7.	0.8	12

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37	Educational attainment in patients with congenital heart disease: a comprehensive systematic review and meta-analysis. <i>BMC Cardiovascular Disorders</i> , 2021, 21, 549.	1.7	12
38	Ventriculovascular interactions late after atrial and arterial repair of transposition of the great arteries. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014, 148, 2627-2633.	0.8	11
39	The Effect of Modified Blalock-Taussig Shunt Size and Coarctation Severity on Coronary Perfusion After the Norwood Operation. <i>Annals of Thoracic Surgery</i> , 2014, 98, 648-654.	1.3	11
40	Utility of Cardiovascular Magnetic Resonance-Derived Wave Intensity Analysis As a Marker of Ventricular Function in Children with Heart Failure and Normal Ejection Fraction. <i>Frontiers in Pediatrics</i> , 2017, 5, 65.	1.9	10
41	Three-dimensional printing in congenital heart disease: Considerations on training and clinical implementation from a teaching session. <i>International Journal of Artificial Organs</i> , 2019, 42, 595-599.	1.4	10
42	Can finite element models of ballooning procedures yield mechanical response of the cardiovascular site to overexpansion?. <i>Journal of Biomechanics</i> , 2016, 49, 2778-2784.	2.1	9
43	A Non-parametric Statistical Shape Model for Assessment of the Surgically Repaired Aortic Arch in Coarctation of the Aorta: How Normal is Abnormal?. <i>Lecture Notes in Computer Science</i> , 2016, , 21-29.	1.3	9
44	Implementing the Sano Modification in an Experimental Model of First-stage Palliation of Hypoplastic Left Heart Syndrome. <i>ASAIO Journal</i> , 2013, 59, 86-89.	1.6	8
45	Cardiovascular magnetic resonance characterisation of anthracycline cardiotoxicity in adults with normal left ventricular ejection fraction. <i>International Journal of Cardiology</i> , 2021, 343, 180-186.	1.7	8
46	Feasibility of a longitudinal statistical atlas model to study aortic growth in congenital heart disease. <i>Computers in Biology and Medicine</i> , 2022, 144, 105326.	7.0	8
47	Computational Models of Aortic Coarctation in Hypoplastic Left Heart Syndrome: Considerations on Validation of a Detailed 3D model. <i>International Journal of Artificial Organs</i> , 2014, 37, 371-381.	1.4	7
48	Long term cardiovascular magnetic resonance phenotyping of anthracycline cardiomyopathy. <i>International Journal of Cardiology</i> , 2019, 292, 248-252.	1.7	7
49	Exploring the uniqueness of congenital heart disease: An interdisciplinary conversation. <i>Journal of Applied Arts and Health</i> , 2016, 7, 77-91.	0.4	7
50	In Vitro Validation of a Multiscale Patient-Specific Norwood Palliation Model. <i>ASAIO Journal</i> , 2016, 62, 317-324.	1.6	6
51	Numerical model of a valvuloplasty balloon: in vitro validation in a rapid-prototyped phantom. <i>BioMedical Engineering OnLine</i> , 2016, 15, 37.	2.7	6
52	Fortune favours the brave: composite first-person narrative of adolescents with congenital heart disease. <i>BMJ Paediatrics Open</i> , 2017, 1, e000186.	1.4	6
53	Rapid Prototyping Flexible Aortic Models Aids Sizing of Valve Leaflets and Planning the Ozaki Repair. <i>JACC: Case Reports</i> , 2020, 2, 1137-1140.	0.6	6
54	CMR-based 3D statistical shape modelling reveals left ventricular morphological differences between healthy controls and arterial switch operation survivors. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, Q2.	3.3	5

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55	Role of 3D printing technology in paediatric teaching and training: a systematic review. <i>BMJ Paediatrics Open</i> , 2021, 5, e001050.	1.4	5
56	Beyond Heart Symbolism: Artistic Representation of Narratives of Congenital Heart Disease. <i>JAMA - Journal of the American Medical Association</i> , 2017, 318, 1740.	7.4	4
57	Beyond apical ballooning: computational modelling reveals morphological features of Takotsubo cardiomyopathy. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 1103-1106.	1.6	4
58	“Making the Invisible Visible”: an audience response to an art installation representing the complexity of congenital heart disease and heart transplantation. <i>Medical Humanities</i> , 2019, 45, 399-405.	1.2	4
59	Towards a narrative cardiology: exploring, holding and re-presenting narratives of heart disease. <i>Cardiovascular Diagnosis and Therapy</i> , 2019, 9, 73-77.	1.7	3
60	Determinants of aortic growth rate in patients with bicuspid aortic valve by cardiovascular magnetic resonance. <i>Open Heart</i> , 2019, 6, e001095.	2.3	3
61	Wave Reflection and Ventriculo-Arterial Coupling in Bicuspid Aortic Valve Patients With Repaired Aortic Coarctation. <i>Frontiers in Pediatrics</i> , 2021, 9, 770754.	1.9	3
62	3D Printing Cardiovascular Anatomy: A Single-Centre Experience. , 0, , .		2
63	Case of placental insufficiency and premature delivery in a Fontan pregnancy: physiological insights and considerations on risk stratification. <i>Open Heart</i> , 2021, 8, e001211.	2.3	2
64	Isolating the Effect of Arch Architecture on Aortic Hemodynamics Late After Coarctation Repair: A Computational Study. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	2.4	2
65	Letter by Giardini et al Regarding Article, “Maladaptive Aortic Properties in Children After Palliation of Hypoplastic Left Heart Syndrome Assessed by Cardiovascular Magnetic Resonance Imaging”: <i>Circulation</i> , 2011, 123, e594; author reply e595.	1.6	1
66	Abnormalities in aortic arch geometry do not lead to reduced exercise performance: a comparison study between patients with transposition of the great arteries repaired by arterial switch operation and normal controls. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, P291.	3.3	1
67	A method to implement the reservoir-wave hypothesis using phase-contrast magnetic resonance imaging. <i>MethodsX</i> , 2016, 3, 508-512.	1.6	1
68	The landscape of congenital heart disease. <i>Cardiovascular Diagnosis and Therapy</i> , 2017, 67, S55-S56.	1.7	1
69	My Core: conveying the everyday normality of living with congenital heart disease. <i>Cardiovascular Diagnosis and Therapy</i> , 2021, 11, 1436-1438.	1.7	1
70	What’s Important: Narrative Reflections After Orthopaedic Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2021, 103, 1565-1566.	3.0	1
71	PRESSURE AND WAVE INTENSITY DISTRIBUTION ALONG THE INTRA-AORTIC BALLOON: AN IN VITRO STUDY. <i>ASAIO Journal</i> , 2006, 52, 45A.	1.6	0
72	Implementing the Sano Modification in an Experimental Model of the Norwood Circulation. , 2012, , .		0

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73	Mechanical and morphological properties of the aortic root and arch late after arterial switch operation for transposition of the great arteries. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	3.3	0
74	Non-invasive single slice estimate of aortic distensibility from phase-contrast MRI: application to hypoplastic left heart syndrome. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	3.3	0
75	Use of CMR-based wave intensity analysis to demonstrate abnormalities in the aorta, the ventricle and ventriculo-arterial coupling: Comparison between patients with complete transposition of the great arteries (TGA), following palliation with atrial switch and arterial switch operations, and normals. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, P293.	3.3	0
76	Patient-Specific Simulations in Interventional Cardiology Practice: Early Results From a Clinical/Engineering Centre. , 2013, , .		0
77	Patient-Specific Simulations in Interventional Cardiology Practice: Early Results From a Clinical/Engineering Center. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2013, 7, .	0.7	0
78	13.8 VENTRICULO-VASCULAR INTERACTIONS AND THE ARTERIAL WINDKESSEL: NEW INSIGHTS FROM CARDIOVASCULAR MAGNETIC RESONANCE IMAGING BEFORE AND AFTER RENAL DENERVATION. <i>Artery Research</i> , 2016, 16, 81.	0.6	0
79	The Engineering Perspective. , 2016, , 197-202.		0
80	New insights in ventriculo-arterial coupling and ventricular shape in repaired tetralogy of Fallot: a retrospective cohort study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, O118.	3.3	0
81	3.3 ASSESSMENT OF AORTIC MORPHOLOGY IN A BICUSPID AORTIC VALVE POPULATION. <i>Artery Research</i> , 2017, 20, 53.	0.6	0
82	2.5 NON-INVASIVE WAVE INTENSITY ANALYSIS IN THE AORTA AND INTERNAL CAROTID USING PHASE-CONTRAST MR ANGIOGRAPHY: THE EFFECT OF HYPERTENSION. <i>Artery Research</i> , 2017, 20, 51.	0.6	0
83	When We Meet in a Clearing: Making Research Accessible to Patients and Patient Experience Accessible to Clinicians. <i>Journal of Patient Experience</i> , 2019, 6, 333-335.	0.9	0
84	A Non-Invasive Study Using MR-Derived Wave Intensity Analysis to Highlight the Effect of Surgical Arch Reconstruction on Ventriculo-Arterial Coupling in Patients With Hypoplastic Left Heart Syndrome. , 2012, , .		0
85	Different Finite Element Strategies to Satisfy Clinical and Engineering Requirements in Modeling a Novel Percutaneous Device. , 2012, , .		0
86	Imaging-Based Wave Intensity Analysis: Applications in Congenital Heart Disease. , 2013, , .		0
87	Combining 4D MR Flow Experimental Data and Computational Fluid Dynamics to Study the Neoaorta in Patients With Repaired Transposition of the Great Arteries. , 2013, , .		0
88	A Hemi Fontan Operation Performed by an Engineer: Considerations on Virtual Surgery. , 2013, , .		0
89	Cross-sectional imaging/modelling. , 2018, , 756-760.		0
90	Imaging the carotid atherosclerotic plaque. <i>Vascular Biology (Bristol, England)</i> , 2019, 1, H53-H58.	3.2	0

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91	Commentary: On the road toward routine use of 3-dimensional techniques in complex congenital surgery. JTCVS Techniques, 2020, 1, 88-89.	0.4	0
92	Artistâ€™s Statement: Home is where the Heart is. Academic Medicine, 2020, 95, 1657-1657.	1.6	0