## Gil Marom

## List of Publications by Citations

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43 895 18 29 g-index

44 1,115 2.8 4.53 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
43	Cusp height in aortic valves. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2013</b> , 146, 269-74	1.5	118
42	A fluid-structure interaction model of the aortic valve with coaptation and compliant aortic root. <i>Medical and Biological Engineering and Computing</i> , <b>2012</b> , 50, 173-82	3.1	66
41	Aortic root numeric model: annulus diameter prediction of effective height and coaptation in post-aortic valve repair. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2013</b> , 145, 406-411.e1	1.5	61
40	Patient-specific simulation of transcatheter aortic valve replacement: impact of deployment options on paravalvular leakage. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2019</b> , 18, 435-451	3.8	56
39	A general three-dimensional parametric geometry of the native aortic valve and root for biomechanical modeling. <i>Journal of Biomechanics</i> , <b>2012</b> , 45, 2392-7	2.9	53
38	Numerical Methods for FluidBtructure Interaction Models of Aortic Valves. <i>Archives of Computational Methods in Engineering</i> , <b>2015</b> , 22, 595-620	7.8	48
37	Hemodynamic and thrombogenic analysis of a trileaflet polymeric valve using a fluid-structure interaction approach. <i>Journal of Biomechanics</i> , <b>2015</b> , 48, 3641-9	2.9	41
36	Numerical Simulation of the Airflow Across Trees in a Windbreak. <i>Boundary-Layer Meteorology</i> , <b>2010</b> , 135, 89-107	3.4	38
35	Fluid-structure interaction model of aortic valve with porcine-specific collagen fiber alignment in the cusps. <i>Journal of Biomechanical Engineering</i> , <b>2013</b> , 135, 101001-6	2.1	33
34	Novel Polymeric Valve for Transcatheter Aortic Valve Replacement Applications: In Vitro Hemodynamic Study. <i>Annals of Biomedical Engineering</i> , <b>2019</b> , 47, 113-125	4.7	33
33	Fully coupled fluid-structure interaction model of congenital bicuspid aortic valves: effect of asymmetry on hemodynamics. <i>Medical and Biological Engineering and Computing</i> , <b>2013</b> , 51, 839-48	3.1	28
32	Numerical model of the aortic root and valve: optimization of graft size and sinotubular junction to annulus ratio. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2013</b> , 146, 1227-31	1.5	28
31	Progressive aortic valve calcification: three-dimensional visualization and biomechanical analysis. Journal of Biomechanics, <b>2015</b> , 48, 489-97	2.9	28
30	Effect of Balloon-Expandable Transcatheter Aortic Valve Replacement Positioning: A Patient-Specific Numerical Model. <i>Artificial Organs</i> , <b>2016</b> , 40, E292-E304	2.6	27
29	Fluid-structure interaction modeling of calcific aortic valve disease using patient-specific three-dimensional calcification scans. <i>Medical and Biological Engineering and Computing</i> , <b>2016</b> , 54, 1683	-1 <sup>2</sup> 6 <sup>1</sup> 94	24
28	Lagrangian methods for blood damage estimation in cardiovascular devicesHow numerical implementation affects the results. <i>Expert Review of Medical Devices</i> , <b>2016</b> , 13, 113-22	3.5	22
27	Numerical evaluation of transcatheter aortic valve performance during heart beating and its post-deployment fluid-structure interaction analysis. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2020</b> , 19, 1725-1740	3.8	21

## (2018-2019)

26	Biomechanical modeling of transcatheter aortic valve replacement in a stenotic bicuspid aortic valve: deployments and paravalvular leakage. <i>Medical and Biological Engineering and Computing</i> , <b>2019</b> , 57, 2129-2143	3.1	20
25	Comparative Fluid-Structure Interaction Analysis of Polymeric Transcatheter and Surgical Aortic ValvesaHemodynamics and Structural Mechanics. <i>Journal of Biomechanical Engineering</i> , <b>2018</b> ,	2.1	18
24	Fluid-Structure Interaction Models of Bicuspid Aortic Valves: The Effects of Nonfused Cusp Angles. Journal of Biomechanical Engineering, <b>2018</b> , 140,	2.1	18
23	Aortic root numeric model: correlation between intraoperative effective height and diastolic coaptation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2013</b> , 145, 303-4	1.5	17
22	Numerical model of full-cardiac cycle hemodynamics in a total artificial heart and the effect of its size on platelet activation. <i>Journal of Cardiovascular Translational Research</i> , <b>2014</b> , 7, 788-96	3.3	14
21	Reducing the effects of compressibility in DPD-based blood flow simulations through severe stenotic microchannels. <i>Journal of Computational Physics</i> , <b>2017</b> , 335, 812-827	4.1	13
20	The effect of pathologic venous valve on neighboring valves: fluid-structure interactions modeling. <i>Medical and Biological Engineering and Computing</i> , <b>2017</b> , 55, 991-999	3.1	11
19	Imaging analysis of collagen fiber networks in cusps of porcine aortic valves: effect of their local distribution and alignment on valve functionality. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2016</b> , 19, 1002-8	2.1	10
18	Simulation of Transcatheter Aortic Valve Replacement in patient-specific aortic roots: Effect of crimping and positioning on device performance. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual</i>	0.9	8
17	International Conference, 2015, 2015, 282-5  Numerical models of valve-in-valve implantation: effect of intentional leaflet laceration on the anchorage. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 415-426	3.8	8
16	Three-dimensional morphological analysis of placental terminal villi. <i>Interface Focus</i> , <b>2019</b> , 9, 20190037	3.9	7
15	A New Growth Model for Aortic Valve Calcification. <i>Journal of Biomechanical Engineering</i> , <b>2018</b> , 140,	2.1	6
14	Numerical models for assessing the risk of leaflet thrombosis post-transcatheter aortic valve-in-valve implantation. <i>Royal Society Open Science</i> , <b>2020</b> , 7, 201838	3.3	6
13	Impact of BASILICA on the thrombogenicity potential of valve-in-valve implantations. <i>Journal of Biomechanics</i> , <b>2021</b> , 118, 110309	2.9	3
12	Effect of asymmetry on hemodynamics in fluid-structure interaction model of congenital bicuspid aortic valves. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 637-40	0.9	2
11	New Insights into Valve Hemodynamics. Rambam Maimonides Medical Journal, <b>2020</b> , 11,	1.8	2
10	Design Effect of Metallic (Durable) and Polymeric (Resorbable) Stents on Blood Flow and Platelet Activation. <i>Artificial Organs</i> , <b>2018</b> , 42, 1148-1156	2.6	2
9	Patient-Specific Numerical Model of Calcific Aortic Stenosis and Its Treatment by Balloon-Expandable Transcatheter Aortic Valve: Effect of Positioning on the Anchorage. <i>Lecture Notes in Bioengineering</i> , <b>2018</b> , 259-263	0.8	1

8	Authorsareply regarding "A general three dimensional parametric geometry of the native aortic valve and root for biomechanical modeling". <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 1239	2.9	1
7	Numerical biomechanics modelling of indirect mitral annuloplasty treatments for functional mitral regurgitation <i>Royal Society Open Science</i> , <b>2022</b> , 9, 211464	3.3	1
6	Numerical Biomechanics Models of the Interaction Between a Novel Transcatheter Mitral Valve Device and the Subvalvular Apparatus. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2021</b> , 16, 327-333	1.5	1
5	Numerical Models of Spinal Cord Trauma: The Effect of Cerebrospinal Fluid Pressure and Epidural Fat on the Results. <i>Journal of Neurotrauma</i> , <b>2021</b> , 38, 2176-2185	5.4	1
4	Numerical model of total artificial heart hemodynamics and the effect of its size on stress accumulation. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2014,	0.9	0
3	2014, 5651-4 Cardiac mesh morphing method for finite element modeling of heart failure with preserved ejection fraction <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2021</b> , 126, 104937	4.1	Ο
2	ONE-POINT ADVICE: Optimizing Aortic Valve Repair Techniques with Computational Models <b>2019</b> , 45-	51	
1	The effect of clinically recommended Evolut sizes on anchorage forces after BASILICA. <i>Journal of Biomechanics</i> , <b>2021</b> , 118, 110303	2.9	