

Charles H Bloodworth Iv

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ex Vivo Methods for Informing Computational Models of the Mitral Valve. <i>Annals of Biomedical Engineering</i> , 2017, 45, 496-507.	1.3	43
2	Fluid-structure interaction and structural analyses using a comprehensive mitral valve model with 3D chordal structure. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2815.	1.0	37
3	Mitral Valve Chordae Tendineae: Topological and Geometrical Characterization. <i>Annals of Biomedical Engineering</i> , 2017, 45, 378-393.	1.3	36
4	How Local Annular Force and Collagen Density Govern Mitral Annuloplasty Ring Dehiscence Risk. <i>Annals of Thoracic Surgery</i> , 2016, 102, 518-526.	0.7	31
5	High-resolution subject-specific mitral valve imaging and modeling: experimental and computational methods. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 1619-1630.	1.4	28
6	Fluid-Structure Interaction Analysis of Ruptured Mitral Chordae Tendineae. <i>Annals of Biomedical Engineering</i> , 2017, 45, 619-631.	1.3	25
7	Suture Dehiscence in the Tricuspid Annulus: An Ex Vivo Analysis of Tissue Strength and Composition. <i>Annals of Thoracic Surgery</i> , 2017, 104, 820-826.	0.7	15
8	Mitral annuloplasty ring suture forces: Impact of surgeon, ring, and use conditions. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 155, 131-139.e3.	0.4	15
9	Personalized mitral valve closure computation and uncertainty analysis from 3D echocardiography. <i>Medical Image Analysis</i> , 2017, 35, 238-249.	7.0	14
10	A mechanistic investigation of the EDWARDS INTUITY Elite valve's hemodynamic performance. <i>General Thoracic and Cardiovascular Surgery</i> , 2020, 68, 9-17.	0.4	14
11	Novel Method to Track Soft Tissue Deformation by Micro-Computed Tomography: Application to the Mitral Valve. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2273-2281.	1.3	13
12	Effect of Edge-to-Edge Mitral Valve Repair on Chordal Strain: Fluid-Structure Interaction Simulations. <i>Biology</i> , 2020, 9, 173.	1.3	13
13	Mitral annuloplasty ring flexibility preferentially reduces posterior suture forces. <i>Journal of Biomechanics</i> , 2018, 75, 58-66.	0.9	9
14	Fluid-Structure Interaction Analysis of Subject-Specific Mitral Valve Regurgitation Treatment with an Intra-Valvular Spacer. <i>Prosthesis</i> , 2020, 2, 65-75.	1.1	9
15	Optimized mitral annuloplasty ring design reduces loading in the posterior annulus. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020, 159, 1766-1774.e2.	0.4	7
16	Impact of simulated MitraClip on forward flow obstruction in the setting of mitral leaflet tethering: An in vitro investigation. <i>Catheterization and Cardiovascular Interventions</i> , 2018, 92, 797-807.	0.7	4
17	Novel In Vitro Test Systems and Insights for Transcatheter Mitral Valve Design, Part II: Radial Expansion Forces. <i>Annals of Biomedical Engineering</i> , 2019, 47, 392-402.	1.3	4