

Charles H Bloodworth Iv

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.

17
papers

232
citations

9
h-index

15
g-index

17
ext. papers

281
ext. citations

4
avg, IF

2.95
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 17 | Fluid-Structure Interaction Analysis of Subject-Specific Mitral Valve Regurgitation Treatment with an Intra-Valvular Spacer. <i>Prosthesis</i> , 2020 , 2, 65-75 | 4.7 | 7 |
| 16 | Effect of Edge-to-Edge Mitral Valve Repair on Chordal Strain: Fluid-Structure Interaction Simulations. <i>Biology</i> , 2020 , 9, | 4.9 | 8 |
| 15 | A mechanistic investigation of the EDWARDS INTUITY Elite valves hemodynamic performance. <i>General Thoracic and Cardiovascular Surgery</i> , 2020 , 68, 9-17 | 1.6 | 6 |
| 14 | Optimized mitral annuloplasty ring design reduces loading in the posterior annulus. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 , 159, 1766-1774.e2 | 1.5 | 4 |
| 13 | 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 | 4.7 | 4 |
| 12 | 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 | 1.5 | 9 |
| 11 | 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 | 2.7 | 1 |
| 10 | Mitral annuloplasty ring flexibility preferentially reduces posterior suture forces. <i>Journal of Biomechanics</i> , 2018 , 75, 58-66 | 2.9 | 8 |
| 9 | Personalized mitral valve closure computation and uncertainty analysis from 3D echocardiography. <i>Medical Image Analysis</i> , 2017 , 35, 238-249 | 15.4 | 9 |
| 8 | 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 | 2.7 | 13 |
| 7 | Mitral Valve Chordae Tendineae: Topological and Geometrical Characterization. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 378-393 | 4.7 | 26 |
| 6 | 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 | 2.6 | 28 |
| 5 | Ex Vivo Methods for Informing Computational Models of the Mitral Valve. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 496-507 | 4.7 | 36 |
| 4 | Fluid-Structure Interaction Analysis of Ruptured Mitral Chordae Tendineae. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 619-631 | 4.7 | 16 |
| 3 | How Local Annular Force and Collagen Density Govern Mitral Annuloplasty Ring Dehiscence Risk. <i>Annals of Thoracic Surgery</i> , 2016 , 102, 518-26 | 2.7 | 24 |
| 2 | Novel Method to Track Soft Tissue Deformation by Micro-Computed Tomography: Application to the Mitral Valve. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2273-81 | 4.7 | 11 |
| 1 | High-resolution subject-specific mitral valve imaging and modeling: experimental and computational methods. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016 , 15, 1619-1630 | 3.8 | 22 |

