

James N Warnock

List of Publications by Citations

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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.

24
papers

729
citations

13
h-index

27
g-index

27
ext. papers

866
ext. citations

6.6
avg, IF

3.85
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 24 | Mechanosensation of cyclical force by PIEZO1 is essential for innate immunity. <i>Nature</i> , 2019 , 573, 69-74 | 50.4 | 151 |
| 23 | Mechanobiology of the aortic heart valve. <i>Journal of Heart Valve Disease</i> , 2008 , 17, 62-73 | | 115 |
| 22 | Bioreactor systems for the production of biopharmaceuticals from animal cells. <i>Biotechnology and Applied Biochemistry</i> , 2006 , 45, 1-12 | 2.8 | 81 |
| 21 | Cyclic pressure affects the biological properties of porcine aortic valve leaflets in a magnitude and frequency dependent manner. <i>Annals of Biomedical Engineering</i> , 2004 , 32, 1461-70 | 4.7 | 69 |
| 20 | Effects of constant static pressure on the biological properties of porcine aortic valve leaflets. <i>Annals of Biomedical Engineering</i> , 2004 , 32, 555-62 | 4.7 | 41 |
| 19 | Structural characterization of the chordae tendineae in native porcine mitral valves. <i>Annals of Thoracic Surgery</i> , 2005 , 80, 189-97 | 2.7 | 39 |
| 18 | Cyclic strain inhibits acute pro-inflammatory gene expression in aortic valve interstitial cells. <i>Biomechanics and Modeling in Mechanobiology</i> , 2010 , 9, 117-25 | 3.8 | 34 |
| 17 | Case study: use of problem-based learning to develop students' technical and professional skills. <i>European Journal of Engineering Education</i> , 2016 , 41, 142-153 | 1.5 | 31 |
| 16 | Normal physiological conditions maintain the biological characteristics of porcine aortic heart valves: an ex vivo organ culture study. <i>Annals of Biomedical Engineering</i> , 2005 , 33, 1158-66 | 4.7 | 27 |
| 15 | Differential immediate-early gene responses to elevated pressure in porcine aortic valve interstitial cells. <i>Journal of Heart Valve Disease</i> , 2006 , 15, 34-41; discussion 42 | | 19 |
| 14 | Cell culture processes for the production of viral vectors for gene therapy purposes. <i>Cytotechnology</i> , 2006 , 50, 141-62 | 2.2 | 18 |
| 13 | Fabrication of Bacteria- and Blood-Repellent Superhydrophobic Polyurethane Sponge Materials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51160-51173 | 9.5 | 17 |
| 12 | Gene Profiling of Aortic Valve Interstitial Cells under Elevated Pressure Conditions: Modulation of Inflammatory Gene Networks. <i>International Journal of Inflammation</i> , 2011 , 2011, 176412 | 6.4 | 15 |
| 11 | Live en face imaging of aortic valve leaflets under mechanical stress. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012 , 11, 355-61 | 3.8 | 13 |
| 10 | Gasoline-range hydrocarbon production using biomass derived synthesis gas over Mo/H+ZSM-5. <i>Fuel</i> , 2012 , 96, 239-249 | 7.1 | 12 |
| 9 | Cyclic aortic pressure affects the biological properties of porcine pulmonary valve leaflets. <i>Journal of Heart Valve Disease</i> , 2006 , 15, 295-302 | | 7 |
| 8 | Left Ventricular Hemodynamics with an Implanted Assist Device: An In Vitro Fluid Dynamics Study. <i>Annals of Biomedical Engineering</i> , 2019 , 47, 1799-1814 | 4.7 | 6 |

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| 7 | Side-specific characterization of aortic valve endothelial cell adhesion molecules under cyclic strain. <i>Journal of Heart Valve Disease</i> , 2013 , 22, 631-9 | | 6 |
| 6 | Bioinspired ultra-low fouling coatings on medical devices to prevent device-associated infections and thrombosis. <i>Journal of Colloid and Interface Science</i> , 2022 , 608, 1015-1024 | 9.3 | 5 |
| 5 | Influence of hydrostatic and distortional stress on chondroinduction. <i>Biorheology</i> , 2008 , 45, 479-86 | 1.7 | 5 |
| 4 | Vasoactive agents alter the biomechanical properties of aortic heart valve leaflets in a time-dependent manner. <i>Journal of Heart Valve Disease</i> , 2010 , 19, 86-95; discussion 96 | | 5 |
| 3 | Cyclic pressure and angiotensin II influence the biomechanical properties of aortic valves. <i>Journal of Biomechanical Engineering</i> , 2014 , 136, 011011 | 2.1 | 4 |
| 2 | Quantitative Characterization of Aortic Valve Endothelial Cell Viability and Morphology In Situ Under Cyclic Stretch. <i>Cardiovascular Engineering and Technology</i> , 2019 , 10, 173-180 | 2.2 | 3 |
| 1 | Evaluation of porcine aortic valve interstitial cell activity using different serum types in two- and three-dimensional culture. <i>Tissue Engineering</i> , 2007 , 13, 343-9 | | 3 |