Prem A Midha

List of Publications by Year
in descending order

20 papers	582 citations	840119 11 h-index	887659 17 g-index
20 all docs	20 docs citations	20 times ranked	681 citing authors

#	Article	IF	Citations
1	The Fluid Mechanics of Transcatheter Heart Valve Leaflet Thrombosis in the Neosinus. Circulation, 2017, 136, 1598-1609.	1.6	163
2	On the Mechanics of Transcatheter Aortic Valve Replacement. Annals of Biomedical Engineering, 2017, 45, 310-331.	1.3	69
3	Valve Type, Size, and Deployment Location Affect Hemodynamics in anÂInÂVitro Valve-in-Valve Model. JACC: Cardiovascular Interventions, 2016, 9, 1618-1628.	1.1	67
4	Exploring the Use of Functional Models in Biomimetic Conceptual Design. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	1.7	62
5	The Effect of Valve-in-Valve Implantation Height on Sinus Flow. Annals of Biomedical Engineering, 2017, 45, 405-412.	1.3	42
6	How Can We Help a Patient With a SmallÂFailing Bioprosthesis?. JACC: Cardiovascular Interventions, 2015, 8, 2026-2033.	1.1	33
7	Aortic Regurgitation Generates a Kinematic Obstruction Which Hinders Left Ventricular Filling. Annals of Biomedical Engineering, 2017, 45, 1305-1314.	1.3	21
8	Three-dimensional extent of flow stagnation in transcatheter heart valves. Journal of the Royal Society Interface, 2019, 16, 20190063.	1.5	19
9	An Evaluation of the Influence of Coronary Flow on Transcatheter Heart Valve Neo-Sinus Flow Stasis. Annals of Biomedical Engineering, 2020, 48, 169-180.	1.3	19
10	Transcatheter aortic valve deployment influences neoâ€sinus thrombosis risk: An in vitro flow study. Catheterization and Cardiovascular Interventions, 2020, 95, 1009-1016.	0.7	18
11	Exploring the Use of Functional Models as a Foundation for Biomimetic Conceptual Design. , 2007, , 79.		15
12	A mechanistic investigation of the EDWARDS INTUITY Elite valveâ€™s hemodynamic performance. General Thoracic and Cardiovascular Surgery, 2020, 68, 9-17.	0.4	14
13	Characterization of aortic root geometry in transcatheter aortic valve replacement patients. Catheterization and Cardiovascular Interventions, 2019, 93, 134-140.	0.7	11
14	Transcatheter aortic valve thrombosis: a review of potential mechanisms. Journal of the Royal Society Interface, 2021, 18, 20210599.	1.5	11
15	The hemodynamic effects of acute aortic regurgitation into a stiffened left ventricle resulting from chronic aortic stenosis. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1801-H1807.	1.5	8
16	Validation of Cardiac Output as Reported by a Permanently Implanted Wireless Sensor. Journal of Medical Devices, Transactions of the ASME, 2016, 10, .	0.4	5
17	PneumoniaCheck: A Device for Sampling Lower Airway Aerosols. Journal of Medical Devices, Transactions of the ASME, 2010, 4, .	0.4	4
18	Ineffective Orifice Area: Practical Limitations of Accurate EOA Assessment for Low-Gradient Heart Valve Prostheses. Cardiovascular Engineering and Technology, 2021, , 1.	0.7	1

#	Article	IF	Citations
19	Mechanical Advantage of a Compliant Mechanism and Significant Factors Affecting it, Using the Pseudo-Rigid-Body Model Approach. , 2015, , .		0
20	Response by Sharma et al to Letter Regarding Article, â€œThe Fluid Mechanics of Transcatheter Heart Valve Leaflet Thrombosis in the Neosinusâ€. Circulation, 2018, 137, 2094-2095.	1.6	0