

Neelakantan Saikrishnan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10615730/publications.pdf>

Version: 2024-02-01

24
papers

863
citations

516215

16
h-index

610482

24
g-index

25
all docs

25
docs citations

25
times ranked

1089
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate Assessment of Aortic Stenosis. <i>Circulation</i> , 2014, 129, 244-253.	1.6	130
2	Experimental measurement of dynamic fluid shear stress on the aortic surface of the aortic valve leaflet. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 171-182.	1.4	97
3	In Vitro Characterization of Bicuspid Aortic Valve Hemodynamics Using Particle Image Velocimetry. <i>Annals of Biomedical Engineering</i> , 2012, 40, 1760-1775.	1.3	72
4	Experimental measurement of dynamic fluid shear stress on the ventricular surface of the aortic valve leaflet. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 231-244.	1.4	67
5	An In Vitro Evaluation of the Impact of Eccentric Deployment on Transcatheter Aortic Valve Hemodynamics. <i>Annals of Biomedical Engineering</i> , 2014, 42, 1195-1206.	1.3	61
6	A Novel Left Heart Simulator for the Multi-modality Characterization of Native Mitral Valve Geometry and Fluid Mechanics. <i>Annals of Biomedical Engineering</i> , 2013, 41, 305-315.	1.3	49
7	Total ellipse of the heart valve: the impact of eccentric stent distortion on the regional dynamic deformation of pericardial tissue leaflets of a transcatheter aortic valve replacement. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150737.	1.5	45
8	In Vitro Mitral Valve Simulator Mimics Systolic Valvular Function of Chronic Ischemic Mitral Regurgitation Ovine Model. <i>Annals of Thoracic Surgery</i> , 2013, 95, 825-830.	0.7	36
9	Bicuspid aortic valves are associated with increased wall and turbulence shear stress levels compared to trileaflet aortic valves. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 577-588.	1.4	36
10	Assessment of dual plane PIV measurements in wall turbulence using DNS data. <i>Experiments in Fluids</i> , 2006, 41, 265-278.	1.1	33
11	Experimental Assessment of Flow Fields Associated with Heart Valve Prostheses Using Particle Image Velocimetry (PIV): Recommendations for Best Practices. <i>Cardiovascular Engineering and Technology</i> , 2018, 9, 273-287.	0.7	31
12	Experimental Technique of Measuring Dynamic Fluid Shear Stress on the Aortic Surface of the Aortic Valve Leaflet. <i>Journal of Biomechanical Engineering</i> , 2011, 133, 061007.	0.6	30
13	The congenital bicuspid aortic valve can experience high-frequency unsteady shear stresses on its leaflet surface. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 303, H721-H731.	1.5	30
14	Reynolds number effects on scale energy balance in wall turbulence. <i>Physics of Fluids</i> , 2012, 24, 015101.	1.6	25
15	Micro Particle Image Velocimetry Measurements of Steady Diastolic Leakage Flow in the Hinge of a St. Jude Medical® Regentâ„¢ Mechanical Heart Valve. <i>Annals of Biomedical Engineering</i> , 2014, 42, 526-540.	1.3	22
16	In-Vitro Pulsatile Flow Testing of Prosthetic Heart Valves: A Round-Robin Study by the ISO Cardiac Valves Working Group. <i>Cardiovascular Engineering and Technology</i> , 2019, 10, 397-422.	0.7	17
17	Hemodynamics of the Boston Scientific Lotusâ„¢ Valve: An In Vitro Study. <i>Cardiovascular Engineering and Technology</i> , 2013, 4, 427-439.	0.7	15
18	Effect of Hinge Gap Width of a St. Jude Medical Bileaflet Mechanical Heart Valve on Blood Damage Potential—An In Vitro Micro Particle Image Velocimetry Study. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 091008.	0.6	15

#	ARTICLE	IF	CITATIONS
19	Accuracy of a Mitral Valve Segmentation Method Using J-Splines for Real-Time 3D Echocardiography Data. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1258-1268.	1.3	14
20	Peak Mechanical Loads Induced in the In Vitro Edge-to-Edge Repair of Posterior Leaflet Flail. <i>Annals of Thoracic Surgery</i> , 2012, 94, 1446-1453.	0.7	12
21	Design of a Pulsatile Flow Facility to Evaluate Thrombogenic Potential of Implantable Cardiac Devices. <i>Journal of Biomechanical Engineering</i> , 2015, 137, 045001.	0.6	11
22	Isolated effect of geometry on mitral valve function for <i>in silico</i> model development. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 618-627.	0.9	8
23	Revisiting the Gorlin equation for aortic stenosis – Is it correctly used in clinical practice?. <i>International Journal of Cardiology</i> , 2013, 168, 2881-2883.	0.8	6
24	Response to Letter Regarding Article, “Accurate Assessment of Aortic Stenosis: A Review of Diagnostic Modalities and Hemodynamics” <i>Circulation</i> , 2014, 130, e135.	1.6	1