

# Zhaoming He

## 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.

50  
papers

1,282  
citations

18  
h-index

35  
g-index

59  
ext. papers

1,417  
ext. citations

2.9  
avg, IF

4.54  
L-index

#	Paper	IF	Citations
50	SPH Viscous Flow Around a Circular Cylinder: Impact of Viscous Formulation and Background Pressure. <i>International Journal of Computational Fluid Dynamics</i> , <b>2021</b> , 35, 451-467	1.2	0
49	Numerical study of coupled flow in blocking pulsed jet impinging on a rotating wall. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2021</b> , 43, 1	2	18
48	Detachment Force of the Helical Anchor in Mitral Annulus. <i>Medicine in Novel Technology and Devices</i> , <b>2021</b> , 12, 100098	2.1	
47	A Single-opening&closing Valve Tester for Direct Measurement of Closing Volume of the Heart Valve. <i>Cardiovascular Engineering and Technology</i> , <b>2021</b> , 1	2.2	
46	Mitral valve cleft gapping mechanism in functional mitral regurgitation: An in-vitro study. <i>Medicine in Novel Technology and Devices</i> , <b>2021</b> , 10, 100061	2.1	
45	Interstage difference of pressure pulsation in a three-stage electrical submersible pump. <i>Journal of Petroleum Science and Engineering</i> , <b>2021</b> , 196, 107653	4.4	43
44	Energy characteristics and optimal design of diffuser meridian in an electrical submersible pump. <i>Renewable Energy</i> , <b>2021</b> , 167, 718-727	8.1	24
43	Optimal Design of Slit Impeller for Low Specific Speed Centrifugal Pump Based on Orthogonal Test. <i>Journal of Marine Science and Engineering</i> , <b>2021</b> , 9, 121	2.4	9
42	Mechanistic study of ventricular hook anchor for heart valve replacement or repair. <i>Medicine in Novel Technology and Devices</i> , <b>2020</b> , 5, 100033	2.1	2
41	Intelligent Diagnosis of Heart Murmurs in Children with Congenital Heart Disease. <i>Journal of Healthcare Engineering</i> , <b>2020</b> , 2020, 9640821	3.7	6
40	How and where the mitral valve leaks in functional mitral regurgitation. <i>Medicine in Novel Technology and Devices</i> , <b>2019</b> , 2, 100017	2.1	1
39	Mechanical Properties and Composition of the Basal Leaflet-Annulus Region of the Tricuspid Valve. <i>Cardiovascular Engineering and Technology</i> , <b>2018</b> , 9, 217-225	2.2	9
38	Transapical Coaptation Plate for Functional Mitral Regurgitation: An In Vitro Study. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 487-495	4.7	4
37	Characterization of biomechanical properties of aged human and ovine mitral valve chordae tendineae. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2016</b> , 62, 607-618	4.1	37
36	Annulus Tension on the Tricuspid Valve: An In-Vitro Study. <i>Cardiovascular Engineering and Technology</i> , <b>2016</b> , 7, 270-9	2.2	14
35	Mechanics of mitral valve edge-to-edge-repair and MitraClip procedure. <i>Journal of Long-Term Effects of Medical Implants</i> , <b>2015</b> , 25, 135-45	0.2	3
34	Numerical Simulations of High-Frequency Respiratory Flows in 2D and 3D Lung Bifurcation Models. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , <b>2014</b> , 15, 337-344 <sup>0.7</sup>		2

33	A novel coaptation plate device for functional mitral regurgitation: an in vitro study. <i>Annals of Biomedical Engineering</i> , <b>2014</b> , 42, 2039-47	4.7	6
32	Effects of suture position on left ventricular fluid mechanics under mitral valve edge-to-edge repair. <i>Bio-Medical Materials and Engineering</i> , <b>2014</b> , 24, 155-61	1	7
31	Tension to passively cinch the mitral annulus through coronary sinus access: an ex vivo study in ovine model. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 1382-8	2.9	13
30	An elongation model of left ventricle deformation in diastole. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2013</b> , 16, 66-72	2.1	2
29	Annulus tension of the prolapsed mitral valve corrected by edge-to-edge repair. <i>Journal of Biomechanics</i> , <b>2012</b> , 45, 562-8	2.9	13
28	Mechanics of the mitral valve strut chordae insertion region. <i>Journal of Biomechanical Engineering</i> , <b>2010</b> , 132, 081004	2.1	38
27	Left Ventricular Vortex Under Mitral Valve Edge-to-Edge Repair. <i>Cardiovascular Engineering and Technology</i> , <b>2010</b> , 1, 235-243	2.2	17
26	Mitral valve annulus tension and the mechanism of annular dilation: an in-vitro study. <i>Journal of Heart Valve Disease</i> , <b>2010</b> , 19, 701-7		8
25	Hemodynamics of the mitral valve under edge-to-edge repair: an in vitro steady flow study. <i>Journal of Biomechanical Engineering</i> , <b>2009</b> , 131, 051010	2.1	7
24	In vitro stretches of the mitral valve anterior leaflet under edge-to-edge repair condition. <i>Journal of Biomechanical Engineering</i> , <b>2009</b> , 131, 111012	2.1	8
23	A novel method to measure mitral valve chordal tension. <i>Journal of Biomechanical Engineering</i> , <b>2009</b> , 131, 014501	2.1	14
22	Effects of papillary muscle position on anterior leaflet stretches under mitral valve edge-to-edge repair. <i>Journal of Heart Valve Disease</i> , <b>2009</b> , 18, 135-41		5
21	Role of annulus tension in annular dilatation. <i>Journal of Heart Valve Disease</i> , <b>2009</b> , 18, 481-7		5
20	Papillary muscle and annulus size effect on anterior and posterior annulus tension of the mitral valve: an insight into annulus dilatation. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 2524-32	2.9	15
19	Heart Valves, Mechanical <b>2008</b> , 1329-1337		
18	Effect of mitral valve strut chord cutting on marginal chord tension. <i>Journal of Heart Valve Disease</i> , <b>2008</b> , 17, 628-34		3
17	A saddle-shaped annulus reduces systolic strain on the central region of the mitral valve anterior leaflet. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2007</b> , 134, 1562-8	1.5	90
16	X-ray diffraction study of nanocrystalline tungsten nitride and tungsten to 31 GPa. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 013525	2.5	14

15	The material properties of the native porcine mitral valve chordae tendineae: an in vitro investigation. <i>Journal of Biomechanics</i> , <b>2006</b> , 39, 1129-35	2.9	59
14	Effects of annular size, transmitral pressure, and mitral flow rate on the edge-to-edge repair: an in vitro study. <i>Annals of Thoracic Surgery</i> , <b>2006</b> , 82, 1362-8	2.7	39
13	Design of a sterile organ culture system for the ex vivo study of aortic heart valves. <i>Journal of Biomechanical Engineering</i> , <b>2005</b> , 127, 857-61	2.1	19
12	Mitral valve function and chordal force distribution using a flexible annulus model: an in vitro study. <i>Annals of Biomedical Engineering</i> , <b>2005</b> , 33, 557-66	4.7	53
11	Normal physiological conditions maintain the biological characteristics of porcine aortic heart valves: an ex vivo organ culture study. <i>Annals of Biomedical Engineering</i> , <b>2005</b> , 33, 1158-66	4.7	27
10	In vitro dynamic strain behavior of the mitral valve posterior leaflet. <i>Journal of Biomechanical Engineering</i> , <b>2005</b> , 127, 504-11	2.1	67
9	Effects of constant static pressure on the biological properties of porcine aortic valve leaflets. <i>Annals of Biomedical Engineering</i> , <b>2004</b> , 32, 555-62	4.7	41
8	Cyclic pressure affects the biological properties of porcine aortic valve leaflets in a magnitude and frequency dependent manner. <i>Annals of Biomedical Engineering</i> , <b>2004</b> , 32, 1461-70	4.7	69
7	Mechanics of the mitral valve: in vitro studies. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2004</b> , 2004, 3727-9		2
6	Fluid mechanics of heart valves. <i>Annual Review of Biomedical Engineering</i> , <b>2004</b> , 6, 331-62	12	254
5	Effects of a saddle shaped annulus on mitral valve function and chordal force distribution: an in vitro study. <i>Annals of Biomedical Engineering</i> , <b>2003</b> , 31, 1171-81	4.7	105
4	Mitral leaflet geometry perturbations with papillary muscle displacement and annular dilatation: an in-vitro study of ischemic mitral regurgitation. <i>Journal of Heart Valve Disease</i> , <b>2003</b> , 12, 300-7		33
3	Effects of papillary muscle position on in-vitro dynamic strain on the porcine mitral valve. <i>Journal of Heart Valve Disease</i> , <b>2003</b> , 12, 488-94		42
2	Microflow fields in the hinge region of the CarboMedics bileaflet mechanical heart valve design. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2002</b> , 124, 561-74	1.5	32
1	Pressure pulsation investigation in an electrical submersible pump based on Morlet continuous wavelet transform. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622110000	1.3	2