

Muralidhar Padala

List of Publications by Year in Descending Order

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Version: 2024-04-17

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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.

63

papers

931

citations

15

h-index

29

g-index

76

ext. papers

1,131

ext. citations

2.7

avg, IF

4.01

L-index

#	Paper	IF	Citations
63	A Biohybrid Material With Extracellular Matrix Core and Polymeric Coating as a Cell Honing Cardiovascular Tissue Substitute.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 807255	5.4	
62	Effect of early versus late onset mitral regurgitation on left ventricular remodeling in ischemic cardiomyopathy in an animal model.. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 ,	1.5	2
61	Image-Guided Targeted Mitral Valve Tethering with Chordal Encircling Snares as a Preclinical Model of Secondary Mitral Regurgitation. <i>Journal of Cardiovascular Translational Research</i> , 2021 , 1	3.3	0
60	Ultrastructural Adaptation of the Cardiomyocyte to Chronic Mitral Regurgitation. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 714774	5.4	1
59	Commentary: Biomechanical remodeling of the pulmonary autograft after the Ross procedure. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 ,	1.5	
58	Commentary: Functional Mitral Stenosis After Undersizing Mitral Annuloplasty for Ischemic Mitral Regurgitation: Ignoring the Elephant in the Room. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2021 ,	1.7	
57	Hemodynamic and transcriptomic studies suggest early left ventricular dysfunction in a preclinical model of severe mitral regurgitation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 , 161, 961-976.	1.5 6.22	5
56	Commentary: Quantifying Paravalvular Aortic Regurgitation After Transcatheter Aortic Valve Replacement-Relative Indices vs Causative Factors. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2021 , 33, 931-932	1.7	
55	Commentary: The mitral valve and the left ventricle in functional mitral regurgitation: The puppet and the puppeteer. <i>JTCVS Open</i> , 2021 , 5, 63-65	0.2	
54	Commentary: Transaortic Mitral Valve Repair With Edge-to-Edge Technique. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2021 ,	1.7	
53	Reply: Does papillary muscle approximation benefit both the mitral valve and the left ventricle in the repair of functional mitral regurgitation?. <i>JTCVS Open</i> , 2021 ,	0.2	
52	Papillary Muscle Approximation Reduces Systolic Tethering Forces and Improves Mitral Valve Closure in the Repair of Functional Mitral Regurgitation.. <i>JTCVS Open</i> , 2021 , 7, 91-104	0.2	1
51	Label-free optical biomarkers detect early calcific aortic valve disease in a wild-type mouse model. <i>BMC Cardiovascular Disorders</i> , 2020 , 20, 521	2.3	1
50	3-D Intravascular Characterization of Blood Flow Velocity Fields with a Forward-Viewing 2-D Array. <i>Ultrasound in Medicine and Biology</i> , 2020 , 46, 2560-2571	3.5	2
49	An Image Guided Transapical Mitral Valve Leaflet Puncture Model of Controlled Volume Overload from Mitral Regurgitation in the Rat. <i>Journal of Visualized Experiments</i> , 2020 ,	1.6	2
48	Commentary: Simple and effective subvalvular repair for ischemic mitral regurgitation: Yes, we can!. <i>JTCVS Techniques</i> , 2020 , 4, 138-139	0.2	
47	Ventricular reshaping with a beating heart implant improves pump function in experimental heart failure. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 ,	1.5	4

46	Undersizing mitral annuloplasty alters left ventricular mechanics in a swine model of ischemic mitral regurgitation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 ,	1.5	11
45	Commentary: Pouring life into dead tissues: A brief history of the porcine small intestine submucosa (SIS) in cardiovascular surgery-success, failures, hype, and hope. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 , 160, e217-e219	1.5	1
44	Commentary: Multifaceted challenges with choosing between mitral valve repair and replacement for rheumatic heart disease. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 ,	1.5	
43	Commentary: When all roads lead to the heart-which one to choose?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 ,	1.5	
42	Hemodynamic outcomes after undersizing ring annuloplasty and focal suture annuloplasty for surgical repair of functional tricuspid regurgitation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 ,	1.5	3
41	Left Ventricular Thinning and Distension in Pig Hearts as a Reproducible Ex Vivo Model of Functional Mitral Regurgitation. <i>ASAIO Journal</i> , 2020 , 66, 1016-1024	3.6	2
40	Mitral regurgitation worsens cardiac remodeling in ischemic cardiomyopathy in an experimental model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 , 160, e107-e125	1.5	10
39	The Choice of Treatment in Ischemic Mitral Regurgitation With Reduced Left Ventricular Function. <i>Annals of Thoracic Surgery</i> , 2019 , 108, 1901-1912	2.7	9
38	Performance and healing of an expanded polytetrafluoroethylene multichordal device at 6 months after repair of mitral leaflet flail in swine. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019 , 157, 932-940.e3 ¹	1.5	1
37	Patient-specific computational biomechanical modeling to guide mitral valve repair strategy: Practicality and value?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 155, 606-607	1.5	2
36	Temporal changes in myocardial collagen, matrix metalloproteinases, and their tissue inhibitors in the left ventricular myocardium in experimental chronic mitral regurgitation in rodents. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 315, H1269-H1278	5.2	6
35	Pathological Remodeling of Mitral Valve Leaflets from Unphysiologic Leaflet Mechanics after Undersized Mitral Annuloplasty to Repair Ischemic Mitral Regurgitation. <i>Journal of the American Heart Association</i> , 2018 , 7, e009777	6	14
34	Transcatheter Mitral Valve Repair Therapies: Evolution, Status and Challenges. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 332-359	4.7	7
33	Invited Commentary. <i>Annals of Thoracic Surgery</i> , 2017 , 103, 827	2.7	
32	Use of a New Expanded Polytetrafluoroethylene Multichordal Mitral Apparatus (MitraPatch) to Repair Complex Mitral Valve Lesions. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2017 , 12, 411-417	1.5	1
31	Use of a New Expanded Polytetrafluoroethylene Multichordal Mitral Apparatus (MitraPatch) to Repair Complex Mitral Valve Lesions. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2017 , 12, 411-417	1.5	1
30	A Swine Model of Percutaneous Intracoronary Ethanol Induced Acute Myocardial Infarction and Ischemic Mitral Regurgitation. <i>Journal of Cardiovascular Translational Research</i> , 2017 , 10, 391-400	3.3	14
29	Papillary Muscle Approximation Is an Anatomically Correct Repair for Ischemic Mitral Regurgitation. <i>Journal of the American College of Cardiology</i> , 2016 , 68, 1146-7	15.1	5

28	Invited Commentary. <i>Annals of Thoracic Surgery</i> , 2016 , 101, 575	2.7	
27	Pre-clinical Experience with a Multi-Chordal Patch for Mitral Valve Repair. <i>Journal of Cardiovascular Translational Research</i> , 2016 , 9, 127-34	3.3	4
26	Swine (<i>Sus scrofa</i>) as a Model of Postinfarction Mitral Regurgitation and Techniques to Accommodate Its Effects during Surgical Repair. <i>Comparative Medicine</i> , 2016 , 66, 290-9	1.6	6
25	Invited Commentary on Ge et al. <i>Ann Thorac Surg</i> 2016;101:1691-9. <i>Annals of Thoracic Surgery</i> , 2016 , 101, e211	2.7	
24	The Impact of Intimal Tear Location and Partial False Lumen Thrombosis in Acute Type B Aortic Dissection. <i>Annals of Thoracic Surgery</i> , 2016 , 102, 1925-1932	2.7	16
23	Mitral valve disease--morphology and mechanisms. <i>Nature Reviews Cardiology</i> , 2015 , 12, 689-710	14.8	172
22	Temporal changes in interpapillary muscle dynamics as an active indicator of mitral valve and left ventricular interaction in ischemic mitral regurgitation. <i>Journal of the American College of Cardiology</i> , 2014 , 64, 1867-79	15.1	60
21	Postsurgical hemodynamics of the aortic valve bypass operation evaluated with phase contrast magnetic resonance. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 40, 899-905	5.6	0
20	Side-specific mechanical properties of valve endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 307, H15-24	5.2	17
19	Abstract 18607: Intra-ventricular Papillary Muscle Banding vs. Undersized Mitral Annuloplasty to Treat Ischemic Mitral Regurgitation in a Chronic Swine Model. <i>Circulation</i> , 2014 , 130,	16.7	2
18	Impact of mitral valve geometry on hemodynamic efficacy of surgical repair in secondary mitral regurgitation. <i>Journal of Heart Valve Disease</i> , 2014 , 23, 79-87		20
17	Hemodynamic comparison of mitral valve repair: techniques for a flail anterior leaflet. <i>Journal of Heart Valve Disease</i> , 2014 , 23, 171-6		6
16	Comparison of artificial neochordae and native chordal transfer in the repair of a flail posterior mitral leaflet: an experimental study. <i>Annals of Thoracic Surgery</i> , 2013 , 95, 629-33	2.7	15
15	Transapical beating heart cardioscopy technique for off-pump visualization of heart valves. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012 , 144, 231-4	1.5	14
14	Right ventricular papillary muscle approximation as a novel technique of valve repair for functional tricuspid regurgitation in an ex vivo porcine model. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012 , 144, 235-42	1.5	24
13	Effect of anterior strut chordal transection on the force distribution on the marginal chordae of the mitral valve. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012 , 144, 624-633.e2	1.5	15
12	Elevated cyclic stretch and serotonin result in altered aortic valve remodeling via a mechanosensitive 5-HT(2A) receptor-dependent pathway. <i>Cardiovascular Pathology</i> , 2012 , 21, 206-13	3.8	24
11	Letter regarding the article by Vismara et al published in <i>Int J Artif Organs</i> 2011; 34(4): 383-391. <i>International Journal of Artificial Organs</i> , 2012 , 35, 158-9; author reply 160-1	1.9	

10	Innovations in therapies for heart valve disease. <i>Circulation Journal</i> , 2011 , 75, 1028-41	2.9	19
9	Regional analysis of dynamic deformation characteristics of native aortic valve leaflets. <i>Journal of Biomechanics</i> , 2011 , 44, 1459-65	2.9	28
8	Mechanics of the mitral valve strut chordae insertion region. <i>Journal of Biomechanical Engineering</i> , 2010 , 132, 081004	2.1	38
7	An Engineering Review of Transcatheter Aortic Valve Technologies. <i>Cardiovascular Engineering and Technology</i> , 2010 , 1, 77-87	2.2	25
6	Mitral valve hemodynamics after repair of acute posterior leaflet prolapse: quadrangular resection versus triangular resection versus neochordoplasty. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2009 , 138, 309-15	1.5	66
5	Saddle shape of the mitral annulus reduces systolic strains on the P2 segment of the posterior mitral leaflet. <i>Annals of Thoracic Surgery</i> , 2009 , 88, 1499-504	2.7	71
4	Mitral web—a new concept for mitral valve repair: improved engineering design and in-vitro studies. <i>Journal of Heart Valve Disease</i> , 2009 , 18, 300-6		6
3	Cleft closure and undersizing annuloplasty improve mitral repair in atrioventricular canal defects. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2008 , 136, 1243-9	1.5	14
2	Design of an ex vivo culture system to investigate the effects of shear stress on cardiovascular tissue. <i>Journal of Biomechanical Engineering</i> , 2008 , 130, 035001	2.1	52
1	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> , 2007 , 134, 1562-8	1.5	90