

# Xiaodan Zhao

## List of Publications by Year in descending order

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49  
papers

873  
citations

471061  
17  
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525886  
27  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1068  
citing authors

#	ARTICLE	IF	CITATIONS
1	Validation of a rapid semi-automated method to assess left atrial longitudinal phasic strains on cine cardiovascular magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018, 20, 71.	1.6	57
2	Normal Values of Myocardial Deformation Assessed by Cardiovascular Magnetic Resonance Feature Tracking in a Healthy Chinese Population: A Multicenter Study. <i>Frontiers in Physiology</i> , 2018, 9, 1181.	1.3	48
3	Impaired Cardiovascular Magnetic Resonance-â€œDerived Rapid Semiautomated Right Atrial Longitudinal Strain Is Associated With Decompensated Hemodynamics in Pulmonary Arterial Hypertension. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e008582.	1.3	48
4	A Well-Conditioned Collocation Method Using a Pseudospectral Integration Matrix. <i>SIAM Journal of Scientific Computing</i> , 2014, 36, A907-A929.	1.3	44
5	Image-based computational assessment of vascular wall mechanics and hemodynamics in pulmonary arterial hypertension patients. <i>Journal of Biomechanics</i> , 2018, 68, 84-92.	0.9	44
6	Simplified Models of Non-Invasive Fractional Flow Reserve Based on CT Images. <i>PLoS ONE</i> , 2016, 11, e0153070.	1.1	44
7	Long-term Prognostic Value of Cardiac MRI Left Atrial Strain in ST-Segment Elevation Myocardial Infarction. <i>Radiology</i> , 2020, 296, 299-309.	3.6	43
8	Hemodynamic analysis of patient-â€œspecific coronary artery tree. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2015, 31, e02708.	1.0	38
9	Cardiac MRI based numerical modeling of left ventricular fluid dynamics with mitral valve incorporated. <i>Journal of Biomechanics</i> , 2016, 49, 1199-1205.	0.9	38
10	Sharp Error Bounds for Jacobi Expansions and Gegenbauer-Gauss Quadrature of Analytic Functions. <i>SIAM Journal on Numerical Analysis</i> , 2013, 51, 1443-1469.	1.1	35
11	Patient-Specific Computational Analysis of Ventricular Mechanics in Pulmonary Arterial Hypertension. <i>Journal of Biomechanical Engineering</i> , 2016, 138, .	0.6	32
12	Dissecting Clinical and Metabolomics Associations of Left Atrial Phasic Function by Cardiac Magnetic Resonance Feature Tracking. <i>Scientific Reports</i> , 2018, 8, 8138.	1.6	24
13	Fast and Accurate Computation of Time-Domain Acoustic Scattering Problems with Exact Nonreflecting Boundary Conditions. <i>SIAM Journal on Applied Mathematics</i> , 2012, 72, 1869-1898.	0.8	23
14	Fast long-axis strain: a simple, automatic approach for assessing left ventricular longitudinal function with cine cardiovascular magnetic resonance. <i>European Radiology</i> , 2020, 30, 3672-3683.	2.3	23
15	Automatic Localization of the Left Ventricle from Cardiac Cine Magnetic Resonance Imaging: A New Spectrum-Based Computer-Aided Tool. <i>PLoS ONE</i> , 2014, 9, e92382.	1.1	22
16	On exponential convergence of Gegenbauer interpolation and spectral differentiation. <i>Mathematics of Computation</i> , 2012, 82, 1017-1036.	1.1	21
17	In-silico assessment of the effects of right ventricular assist device on pulmonary arterial hypertension using an image based biventricular modeling framework. <i>Mechanics Research Communications</i> , 2019, 97, 101-111.	1.0	20
18	Numerical Simulation and Clinical Implications of Stenosis in Coronary Blood Flow. <i>BioMed Research International</i> , 2014, 2014, 1-10.	0.9	19

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19	Imaging 4D morphology and dynamics of mitral annulus in humans using cardiac cine MR feature tracking. <i>Scientific Reports</i> , 2018, 8, 81.	1.6	19
20	Superconvergence of Jacobi's Gauss-Type Spectral Interpolation. <i>Journal of Scientific Computing</i> , 2014, 59, 667-687.	1.1	18
21	Computational quantification of patient-specific changes in ventricular dynamics associated with pulmonary hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H1363-H1375.	1.5	16
22	Metabolomic correlates of aerobic capacity among elderly adults. <i>Clinical Cardiology</i> , 2018, 41, 1300-1307.	0.7	15
23	Advanced analyses of computed tomography coronary angiography can help discriminate ischemic lesions. <i>International Journal of Cardiology</i> , 2018, 267, 208-214.	0.8	14
24	Left Ventricular Wall Stress Is Sensitive Marker of Hypertrophic Cardiomyopathy With Preserved Ejection Fraction. <i>Frontiers in Physiology</i> , 2018, 9, 250.	1.3	14
25	Cardiovascular magnetic resonance-assessed fast global longitudinal strain parameters add diagnostic and prognostic insights in right ventricular volume and pressure loading disease conditions. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 38.	1.6	14
26	Patient-specific blood flows and vortex formations in patients with hypertrophic cardiomyopathy using computational fluid dynamics. , 2014, , .		13
27	Quantification of Biventricular Strains in Heart Failure With Preserved Ejection Fraction Patient Using Hyperelastic Warping Method. <i>Frontiers in Physiology</i> , 2018, 9, 1295.	1.3	12
28	Amino acid differences between diabetic older adults and non-diabetic older adults and their associations with cardiovascular function. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 158, 63-71.	0.9	12
29	Fast Marching and Runge-Kutta Based Method for Centreline Extraction of Right Coronary Artery in Human Patients. <i>Cardiovascular Engineering and Technology</i> , 2016, 7, 159-169.	0.7	11
30	Exacerbation of cardiovascular ageing by diabetes mellitus and its associations with acyl-carnitines. <i>Aging</i> , 2021, 13, 14785-14805.	1.4	10
31	Detection of persistent systolic and diastolic abnormalities in asymptomatic pediatric repaired tetralogy of Fallot patients with preserved ejection fraction: a CMR feature tracking study. <i>European Radiology</i> , 2021, 31, 6156-6168.	2.3	10
32	Coronary artery segmentation via Hessian filter and curve-skeleton extraction. , 2014, , .		9
33	Analysis of three-dimensional endocardial and epicardial strains from cardiac magnetic resonance in healthy subjects and patients with hypertrophic cardiomyopathy. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 159-172.	1.6	9
34	Patient-Specific Computational Analysis of Hemodynamics and Wall Mechanics and Their Interactions in Pulmonary Arterial Hypertension. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 611149.	2.0	8
35	Three-dimensional biventricular strains in pulmonary arterial hypertension patients using hyperelastic warping. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 189, 105345.	2.6	7
36	Computer-based assessment of ventricular mechanical synchrony from magnetic resonance imaging. , 2015, 2015, 6536-9.		5

#	ARTICLE	IF	CITATIONS
37	A Multi-channel Deep Learning Approach for Segmentation of the Left Ventricular Endocardium from Cardiac Images. , 2019, 2019, 4016-4019.		5
38	Novel method for atrioventricular motion assessment from three-dimensional cine magnetic resonance imaging. , 2015, 2015, 319-22.		4
39	A Software Tool for Heart AVJ Motion Tracking Using Cine Cardiovascular Magnetic Resonance Images. IEEE Journal of Translational Engineering in Health and Medicine, 2017, 5, 1-12.	2.2	4
40	Characterization of patient-specific biventricular mechanics in heart failure with preserved ejection fraction: Hyperelastic warping. , 2016, 2016, 4149-4152.		3
41	Age-related changes in four-dimensional CMR-derived atrioventricular junction velocities and displacements: Implications for the identification of altered annular dynamics for ventricular function assessment. IJC Heart and Vasculature, 2019, 22, 6-12.	0.6	3
42	Age- and Sex-Specific Changes in CMR Feature Tracking-Based Right Atrial and Ventricular Functional Parameters in Healthy Asians. Frontiers in Cardiovascular Medicine, 2021, 8, 664431.	1.1	3
43	Left Atrial Phasic Function in Older Adults Is Associated with Fibrotic and Low-Grade Inflammatory Pathways. Gerontology, 2023, 69, 47-56.	1.4	3
44	Variational Reconstruction of Left Cardiac Structure from CMR Images. PLoS ONE, 2015, 10, e0145570.	1.1	2
45	Elevated Right Atrial Pressure Associated with Alteration of Left Ventricular Contractility and Ventricular-Arterial Coupling in Pulmonary Artery Hypertension*. , 2019, 2019, 820-823.		2
46	Reference Ranges for Left Ventricular Curvedness and Curvedness-Based Functional Indices Using Cardiovascular Magnetic Resonance in Healthy Asian Subjects. Scientific Reports, 2020, 10, 8465.	1.6	2
47	Atrioventricular junction (AVJ) motion tracking: A software tool with ITK/VTK/Qt. , 2016, 2016, 4141-4144.		1
48	Correcting motion in multiplanar cardiac magnetic resonance images. BioMedical Engineering OnLine, 2016, 15, 93.	1.3	1
49	Automatic Segmentation of Coronary Artery Lumen via Anisotropic Graph-cuts*. , 2019, 2019, 4871-4874.		1