

Marek Belohlavek

List of Publications by Year in descending order

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56
papers

4,049
citations

361296

20
h-index

161767

54
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57
all docs

57
docs citations

57
times ranked

4574
citing authors

#	ARTICLE	IF	CITATIONS
1	Current and Evolving Echocardiographic Techniques for the Quantitative Evaluation of Cardiac Mechanics: ASE/EAE Consensus Statement on Methodology and Indications. <i>Journal of the American Society of Echocardiography</i> , 2011, 24, 277-313.	1.2	1,026
2	Current and Evolving Echocardiographic Techniques for the Quantitative Evaluation of Cardiac Mechanics: ASE/EAE Consensus Statement on Methodology and Indications Endorsed by the Japanese Society of Echocardiography. <i>European Journal of Echocardiography</i> , 2011, 12, 167-205.	2.3	796
3	Left Ventricular Structure and Function. <i>Journal of the American College of Cardiology</i> , 2006, 48, 1988-2001.	1.2	416
4	Left Ventricular Form and Function Revisited: Applied Translational Science to Cardiovascular Ultrasound Imaging. <i>Journal of the American Society of Echocardiography</i> , 2007, 20, 539-551.	1.2	261
5	Apex-to-Base Dispersion in Regional Timing of Left Ventricular Shortening and Lengthening. <i>Journal of the American College of Cardiology</i> , 2006, 47, 163-172.	1.2	193
6	Left Ventricular Isovolumic Flow Sequence During Sinus and Paced Rhythms. <i>Journal of the American College of Cardiology</i> , 2007, 49, 899-908.	1.2	158
7	Disparate Patterns of Left Ventricular Mechanics Differentiate Constrictive Pericarditis From Restrictive Cardiomyopathy. <i>JACC: Cardiovascular Imaging</i> , 2008, 1, 29-38.	2.3	128
8	Clinical applications of strain rate imaging. <i>Journal of the American Society of Echocardiography</i> , 2003, 16, 1334-1342.	1.2	121
9	Strain and strain rate echocardiography. <i>Current Opinion in Cardiology</i> , 2002, 17, 443-454.	0.8	112
10	Strain rate and strain: A step-by-step approach to image and data acquisition. <i>Journal of the American Society of Echocardiography</i> , 2004, 17, 1011-1020.	1.2	101
11	Time to onset of regional relaxation: feasibility, variability and utility of a novel index of regional myocardial function by strain rate imaging. <i>Journal of the American College of Cardiology</i> , 2002, 39, 1531-1537.	1.2	100
12	Biphasic tissue Doppler waveforms during isovolumic phases are associated with asynchronous deformation of subendocardial and subepicardial layers. <i>Journal of Applied Physiology</i> , 2005, 99, 1104-1111.	1.2	96
13	Real-time strain rate echocardiographic imaging: Temporal and spatial analysis of postsystolic compression in acutely ischemic myocardium. <i>Journal of the American Society of Echocardiography</i> , 2001, 14, 360-369.	1.2	45
14	Delayed Onset of Subendocardial Diastolic Thinning at Rest Identifies Hypoperfused Myocardium. <i>Circulation</i> , 2005, 111, 2943-2950.	1.6	38
15	Flow Velocity Vector Fields by Ultrasound Particle Imaging Velocimetry. <i>Journal of Ultrasound in Medicine</i> , 2011, 30, 187-195.	0.8	37
16	Impact of Acute Moderate Elevation in Left Ventricular Afterload on Diastolic Transmitral Flow Efficiency: Analysis by Vortex Formation Time. <i>Journal of the American Society of Echocardiography</i> , 2009, 22, 427-431.	1.2	36
17	Comparison of Usefulness of Tissue Doppler Imaging Versus Brain Natriuretic Peptide for Differentiation of Constrictive Pericardial Disease from Restrictive Cardiomyopathy. <i>American Journal of Cardiology</i> , 2008, 102, 357-362.	0.7	34
18	Patients With Alzheimer Disease Have Altered Transmitral Flow. <i>Journal of Ultrasound in Medicine</i> , 2009, 28, 1493-1500.	0.8	34

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19	Arterioventricular Coupling and Ventricular Efficiency After Antihypertensive Therapy. <i>Hypertension</i> , 2008, 51, 275-281.	1.3	26
20	Left Ventricular Flow Analysis: Recent Advances in Numerical Methods and Applications in Cardiac Ultrasound. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-11.	0.7	23
21	Electromechanical Activation Sequence in Normal Heart. <i>Heart Failure Clinics</i> , 2008, 4, 303-314.	1.0	21
22	Automatic segmentation of the left ventricle in echocardiographic images using convolutional neural networks. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 1763-1781.	1.1	20
23	Impact of pericardial adhesions on diastolic function as assessed by vortex formation time, a parameter of transmitral flow efficiency. <i>Cardiovascular Ultrasound</i> , 2010, 8, 42.	0.5	19
24	Tumor-Like Mitral Annular Calcification with Central Liquefaction. <i>Echocardiography</i> , 1993, 10, 459-463.	0.3	17
25	Analysis of Postsystolic Myocardial Thickening Work in Selective Myocardial Layers During Progressive Myocardial Ischemia. <i>Journal of the American Society of Echocardiography</i> , 2006, 19, 1102-1111.	1.2	14
26	Unambiguous Identification and Visualization of an Acoustically Active Catheter by Ultrasound Imaging in Real Time: Theory, Algorithm, and Phantom Experiments. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 1468-1475.	2.5	12
27	Doppler Strain Imaging Closely Reflects Myocardial Energetic Status in Acute Progressive Ischemia and Indicates Energetic Recovery After Reperfusion. <i>Journal of the American Society of Echocardiography</i> , 2008, 21, 961-968.	1.2	11
28	Radiofrequency spectral analysis of attenuated ultrasound signals in experiments with echo contrast microbubbles. <i>Journal of the American Society of Echocardiography</i> , 2001, 14, 789-797.	1.2	10
29	Increase in the Late Diastolic Filling Force Is Associated With Impaired Transmitral Flow Efficiency in Acute Moderate Elevation of Left Ventricular Afterload. <i>Journal of Ultrasound in Medicine</i> , 2009, 28, 175-182.	0.8	10
30	Accurate Guidance of a Catheter by Ultrasound Imaging and Identification of a Catheter Tip by Pulsed-Wave Doppler. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2012, 35, 44-50.	0.5	10
31	Vibro-Acoustography: Quantification of Flow with Highly-Localized Low-Frequency Acoustic Force. <i>Ultrasonic Imaging</i> , 2001, 23, 249-256.	1.4	9
32	Dual-Spectra Ultrasonography. <i>Journal of Ultrasound in Medicine</i> , 2002, 21, 249-259.	0.8	9
33	Parametric Detection and Measurement of Perfusion Defects in Attenuated Contrast Echocardiographic Images. <i>Journal of Ultrasound in Medicine</i> , 2007, 26, 739-748.	0.8	9
34	A hybrid echocardiography-CFD framework for ventricular flow simulations. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2020, 36, e03352.	1.0	9
35	Weighted Least-Squares Finite Element Method for Cardiac Blood Flow Simulation with Echocardiographic Data. <i>Computational and Mathematical Methods in Medicine</i> , 2012, 2012, 1-9.	0.7	8
36	Rapid quantitative assessment of myocardial perfusion: Spectral analysis of myocardial contrast echocardiographic images. <i>Journal of the American Society of Echocardiography</i> , 2002, 15, 63-68.	1.2	7

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37	Acoustically Active Injection Catheter Guided by Ultrasound: Navigation Tests in Acutely Ischemic Porcine Hearts. <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 1650-1659.	0.7	7
38	Left Ventricular Septal Hypertrophy in Elderly Patients With Aortic Stenosis. <i>Journal of Ultrasound in Medicine</i> , 2018, 37, 217-224.	0.8	7
39	Classification of acute myocardial ischemia by artificial neural network using echocardiographic strain waveforms. <i>Computers in Biology and Medicine</i> , 2008, 38, 416-424.	3.9	6
40	Acoustically Active Catheter for Intracardiac Navigation by Color Doppler Ultrasonography. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1888-1896.	0.7	6
41	Myocardial Contrast Echocardiography: Texture Analysis for Identification of Nonperfused versus Perfused Myocardium. <i>Echocardiography</i> , 2001, 18, 665-672.	0.3	5
42	Epicardial ultrasound guidance of coronary catheter placement in an experimental animal model. <i>Journal of the American Society of Echocardiography</i> , 2002, 15, 1387-1390.	1.2	5
43	Does Implantation of Sonomicrometry Crystals Alter Regional Cardiac Muscle Function?. <i>Journal of the American Society of Echocardiography</i> , 2007, 20, 1407-1412.	1.2	5
44	An Interposed Pad in Openâ€Chest Echocardiographic Porcine Scans for Mimicking Ultrasound Signal Attenuation in a Human Chest. <i>Journal of Ultrasound in Medicine</i> , 2018, 37, 501-509.	0.8	5
45	Radio frequency dual-spectra analysis of regional myocardial perfusion: Comparison with harmonic densitometric method. <i>Journal of the American Society of Echocardiography</i> , 2002, 15, 1277-1284.	1.2	4
46	Spectral Normalization for Ultrasonic Contrast Microbubble Detection. <i>Ultrasonic Imaging</i> , 2004, 26, 150-162.	1.4	4
47	A Realâ€time Color Doppler Marker for Echocardiographic Guidance of an Acoustically Active Extracorporeal Membrane Oxygenation Cannula. <i>Journal of Ultrasound in Medicine</i> , 2019, 38, 1875-1885.	0.8	4
48	Automated quantitative analysis of the shift of frequency spectra generated by attenuated signals from contrast microbubbles. <i>Ultrasonics</i> , 2003, 41, 75-81.	2.1	3
49	Parametric harmonic-to-fundamental ratio contrast echocardiography: A novel approach to identification and accurate measurement of left ventricular area under variable levels of ultrasound signal attenuation. <i>Ultrasonics</i> , 2007, 46, 109-118.	2.1	3
50	Post-Systolic Shortening. <i>JACC: Cardiovascular Imaging</i> , 2012, 5, 12-14.	2.3	2
51	Automated Three-Dimensional Reconstruction of the Left Ventricle From Multiple-Axis Echocardiography. <i>Journal of Biomechanical Engineering</i> , 2016, 138, .	0.6	2
52	Real-Time Visualization of an Acoustically Active Injection Catheter With Ultrasound Imaging: Algorithm and <i>In Vivo</i> Validation in a Swine Model. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 3212-3219.	2.5	2
53	Ultrasound Stimulated Vibro-acoustography. <i>Lecture Notes in Computer Science</i> , 2004, , 1-10.	1.0	1
54	Detection of Progressive Myocardial Tissue Injury by Ultrasonicâ€Integrated Backscatter Immediately After Coronaryâ€Reperfusion. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 1662-1669.	0.7	1

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55	Acoustic navigation of intramyocardial injection needle catheter using color doppler echocardiography. , 2018, , .		1
56	Dopplerâ€­Guided Acoustically Active Injection Catheter. Journal of Ultrasound in Medicine, 2021, , .	0.8	0