Haim Azhari

List of Publications by Year
in descending order

90 papers	1,942 citations	304368 22 h-index	301761 39 g-index
95 all docs	95 docs citations	95 times ranked	2287 citing authors

#	Article	IF	Citations
1	Ultrasonic Thermal Monitoring of the Brain Using Golay-Coded Excitationsâ€"Feasibility Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 672-680.	1.7	0
2	In vitro evaluation of copper release from MRI-visible, PLGA-based nanospheres. Journal of Materials Science, 2021, 56, 718-730.	1.7	6
3	Laser-induced thermal response and controlled release of copper oxide nanoparticles from multifunctional polymeric nanocarriers. Science and Technology of Advanced Materials, 2021, 22, 218-233.	2.8	20
4	Measurement of Enhanced Photothermal Effects of CuO-encapsulated Polymeric Nanospheres. , 2021, , .		0
5	Ultrasound-induced and MRI-monitored CuO nanoparticles release from micelle encapsulation. Nanotechnology, 2021, 32, 055705.	1.3	4
6	Speed of Sound and Attenuation Temperature Dependence of Bovine Brain: Ex Vivo Study. Journal of Ultrasound in Medicine, 2020, 39, 1175-1186.	0.8	4
7	CORE-Deblur: Parallel MRI Reconstruction by Deblurring using compressed sensing. Magnetic Resonance Imaging, 2020, 72, 25-33.	1.0	3
8	In vivo noninvasive threeâ€dimensional (3D) assessment of microwave thermal ablation zone using nonâ€contrastâ€enhanced xâ€ray CT. Medical Physics, 2020, 47, 4721-4734.	1.6	0
9	Temporal differences (TED) compressed sensing: a method for fast MRgHIFU temperature imaging. NMR in Biomedicine, 2020, 33, e4352.	1.6	3
10	Highly dense FBG arrays for millimeter-scale thermal monitoring during nanocomposite-enhanced laser ablation. , 2020, , .		7
11	Magnetic Resonance Imaging (MRI). , 2020, , 253-319.		0
12	Ultrasound Imaging. , 2020, , 321-364.		0
13	Copper oxide nanoparticles inhibit pancreatic tumor growth primarily by targeting tumor initiating cells. Scientific Reports, 2019, 9, 12613.	1.6	66
14	Gold/Copper@Polydopamine Nanocomposite for Contrast-Enhanced Dual Modal Computed Tomographyâ€"Magnetic Resonance Imaging. ACS Applied Nano Materials, 2019, 2, 6124-6134.	2.4	13
15	<scp>CORE</scp>â€<scp>PI</scp>: Nonâ€iterative convolutionâ€based reconstruction for parallel <scp>MRI</scp> in the wavelet domain. Medical Physics, 2019, 46, 199-214.	1.6	3
16	Copper oxide loaded PLGA nanospheres: towards a multifunctional nanoscale platform for ultrasound-based imaging and therapy. Nanotechnology, 2018, 29, 185102.	1.3	16
17	Target visualisation and microwave hyperthermia monitoring using nanoparticle-enhanced transmission ultrasound (NETUS). International Journal of Hyperthermia, 2018, 34, 773-785.	1.1	9
18	Assessment of Coded Excitation Implementation for Estimating Heat-Induced Speed of Sound Changes. Ultrasound in Medicine and Biology, 2018, 44, 187-198.	0.7	3

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19	Optical flow and image segmentation analysis for noninvasive precise mapping of microwave thermal ablation in X-ray CT scans - ex vivo study. International Journal of Hyperthermia, 2018, 34, 744-755.	1.1	3
20	MRI and Ultrasound Imaging of Nanoparticles for Medical Diagnosis. , 2018, , 333-365.		2
21	Ultrasonic computed tomography imaging of iron oxide nanoparticles. Physics in Medicine and Biology, 2017, 62, 825-842.	1.6	15
22	Noninvasive microwave ablation zone radii estimation using x-ray CT image analysis. Medical Physics, 2016, 43, 4476-4482.	1.6	3
23	Non-invasive Measurement of Thermal Diffusivity Using High-Intensity Focused Ultrasound and Through-Transmission Ultrasonic Imaging. Ultrasound in Medicine and Biology, 2016, 42, 243-256.	0.7	10
24	Planar strain analysis of liver undergoing microwave thermal ablation using xâ€ray CT. Medical Physics, 2015, 42, 372-380.	1.6	12
25	Copper oxide nanoparticles as contrast agents for MRI and ultrasound dual-modality imaging. Physics in Medicine and Biology, 2015, 60, 5767-5783.	1.6	58
26	Preliminary study of copper oxide nanoparticles acoustic and magnetic properties for medical imaging. Proceedings of SPIE, 2015, , .	0.8	0
27	Non-invasive temperature monitoring and hyperthermic injury onset detection using X-ray CT during HIFU thermal treatment in ex vivo fatty tissue. International Journal of Hyperthermia, 2014, 30, 119-125.	1.1	24
28	Temperatureâ€“density hysteresis in X-ray CT during HIFU thermal ablation: Heating and cooling phantom study. International Journal of Hyperthermia, 2014, 30, 27-35.	1.1	15
29	Rapid method for assessing relative tissue stiffness using MR acoustic radiation force imaging. International Journal of Imaging Systems and Technology, 2014, 24, 103-110.	2.7	4
30	Age-Related Ultrasonic Properties of Breast Tissue InÂVivo. Ultrasound in Medicine and Biology, 2014, 40, 2265-2271.	0.7	16
31	Safety and Tolerability of a Focused Ultrasound Device for Treatment of Adipose Tissue in Subjects Undergoing Abdominoplasty: A Placebo-Control Pilot Study. Dermatologic Surgery, 2013, 39, 744-751.	0.4	23
32	Noninvasive Lipoma Size Reduction Using High-Intensity Focused Ultrasound. Dermatologic Surgery, 2013, 39, 1446-1451.	0.4	4
33	Feasibility Study of Contrast-Enhanced Automated Acoustic Mammography. Journal of Ultrasound in Medicine, 2013, 32, 825-833.	0.8	1
34	Feasibility Study of Contrast-Enhanced Automated Acoustic Mammography. Journal of Ultrasound in Medicine, 2013, 32, 825-833.	0.8	3
35	Feasibility Study of Ultrasonic Computed Tomographyâ€“Guided High-Intensity Focused Ultrasound. Ultrasound in Medicine and Biology, 2012, 38, 619-625.	0.7	26
36	Ultrasound: Medical Imaging and Beyond (An Invited Review). Current Pharmaceutical Biotechnology, 2012, 13, 2104-2116.	0.9	16

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37	A Method for Characterization of Tissue Elastic Properties Combining Ultrasonic Computed Tomography With Elastography. Journal of Ultrasound in Medicine, 2010, 29, 387-398.	0.8	65
38	Investigation of Acoustic Changes Resulting from Contrast Enhancement in Through-Transmission Ultrasonic Imaging. Ultrasound in Medicine and Biology, 2010, 36, 1395-1404.	0.7	9
39	Dual â€œmotion-frozen heartâ€•combining respiration and contraction compensation in clinical myocardial perfusion SPECT imaging. Journal of Nuclear Cardiology, 2009, 16, 396-404.	1.4	21
40	Correction for respiration artefacts in myocardial perfusion SPECT is more effective when reconstructions supporting collimator detector response compensation are applied. Journal of Nuclear Cardiology, 2009, 16, 949-955.	1.4	14
41	Investigation of changes in acoustic properties resulting from contrast material in through-transmission ultrasonic imaging. IFMBE Proceedings, 2009, , 452-455.	0.2	0
42	Improved Image Fusion in PET/CT Using Hybrid Image Reconstruction and Super-Resolution. International Journal of Biomedical Imaging, 2007, 2007, 1-10.	3.0	38
43	Correction of Heart Motion Due to Respiration in Clinical Myocardial Perfusion SPECT Scans Using Respiratory Gating. Journal of Nuclear Medicine, 2007, 48, 630-636.	2.8	94
44	Multimodal Imaging and Hybrid Scanners. International Journal of Biomedical Imaging, 2007, 2007, 1-2.	3.0	3
45	Velocity Measurements Using a Single Transmitted Linear Frequency-Modulated Chirp. Ultrasound in Medicine and Biology, 2007, 33, 768-773.	0.7	1
46	Ultrasonic Speed of Sound Dispersion Imaging. Ultrasound in Medicine and Biology, 2007, 33, 762-767.	0.7	6
47	A hybrid algorithm for PET/CT image merger in hybrid scanners. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 517-531.	3.3	2
48	The reduction of artifacts due to metal hip implants in CT-attenuation corrected PET images from hybrid PET/CT scanners. Medical and Biological Engineering and Computing, 2007, 45, 553-562.	1.6	36
49	Super-resolution in PET imaging. IEEE Transactions on Medical Imaging, 2006, 25, 137-147.	5.4	162
50	Measurement of speed of sound dispersion in soft tissues using a double frequency continuous wave method. Ultrasound in Medicine and Biology, 2006, 32, 1065-1071.	0.7	17
51	Computerised Analysis of Liver Texture with Correlation to Needle Biopsy. Ultraschall in Der Medizin, 2005, 26, 197-202.	0.8	15
52	Assessment of Multiple Sclerosis Lesions with Spherical Harmonics: Comparison of MR Imaging and Pathologic Findings. Radiology, 2005, 235, 1036-1044.	3.6	9
53	Method for rapid MRI needle tracking. Magnetic Resonance in Medicine, 2004, 51, 1083-1087.	1.9	14
54	Gradient field switching as a source for artifacts in MR imaging of metallic stents. Magnetic Resonance in Medicine, 2004, 52, 1465-1468.	1.9	13

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55	Application of spherical harmonics derived space rotation invariant indices to the analysis of multiple sclerosis lesions' geometry by MRI. Magnetic Resonance Imaging, 2004, 22, 815-825.	1.0	3
56	Feasibility study of ultrasonic fatty liver biopsy: Texture vs. attenuation and backscatter. Ultrasound in Medicine and Biology, 2004, 30, 1321-1327.	0.7	84
57	Three-dimensional analysis of the geometry of individual multiple sclerosis lesions: Detection of shape changes over time using spherical harmonics. Journal of Magnetic Resonance Imaging, 2003, 18, 291-301.	1.9	22
58	Implementation of helical computed tomography in magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2003, 18, 478-486.	1.9	0
59	Rapid MR imaging by sensitivity profile indexing and deconvolution reconstruction (SPID). Magnetic Resonance Imaging, 2003, 21, 575-584.	1.0	6
60	Reconstruction in diffraction ultrasound tomography using nonuniform FFT. IEEE Transactions on Medical Imaging, 2002, 21, 1395-1401.	5.4	92
61	Speakersâ€™ direction finding using estimated time delays in the frequency domain. Signal Processing, 2002, 82, 19-30.	2.1	13
62	3-D surface reconstruction of multiple sclerosis lesions using spherical harmonics. Magnetic Resonance in Medicine, 2001, 46, 756-766.	1.9	13
63	MR angiography using spin-lock flow tagging. Magnetic Resonance in Medicine, 2001, 46, 1041-1044.	1.9	6
64	Three-dimensional automatic quantitative analysis of intravascular ultrasound images. Ultrasound in Medicine and Biology, 2000, 26, 527-537.	0.7	69
65	Volumetric Imaging with Ultrasonic Spiral CT. Radiology, 1999, 212, 270-275.	3.6	21
66	On direction finding of an emitting source from time delays. Journal of the Acoustical Society of America, 1999, 105, 3355-3363.	0.5	24
67	Effect of aneurysmectomy on left ventricular shape and function: case studies. Medical Engineering and Physics, 1999, 21, 547-554.	0.8	1
68	On the Human Left Ventricular Shape. Journal of Biomedical Informatics, 1999, 32, 264-282.	0.7	18
69	Automated Detection and Characterization of Multiple Sclerosis Lesions in Brain MR Images. Magnetic Resonance Imaging, 1998, 16, 311-318.	1.0	54
70	Pattern analysis of temporal changes in the carotid artery diameter under normal and pathological conditions. Medical Engineering and Physics, 1997, 19, 352-358.	0.8	3
71	Mathematical formulation for computing the performance of self expanding helical stents. International Journal of Medical Informatics, 1997, 44, 127-133.	1.6	7
72	Localization of ischemia in canine hearts using tagged rotated long axis MR images, endocardial surface stretch and wall thickening. Magnetic Resonance Imaging, 1997, 15, 1037-1043.	1.0	4

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73	Hybrid Ultrasonic Computed Tomography. Journal of Biomedical Informatics, 1997, 30, 35-48.	0.7	10
74	In Vivo Assessment of Regional Myocardial Work in Normal Canine Hearts Using 3D Tagged MRI. Advances in Experimental Medicine and Biology, 1997, 430, 241-248.	0.8	2
75	Noninvasive Measurement of Shortening in the Fiber and Cross-Fiber Directions in the Normal Human Left Ventricle and in Idiopathic Dilated Cardiomyopathy. Circulation, 1997, 96, 535-541.	1.6	179
76	The twisting of the heart during contraction. Annals of Biomedical Engineering, 1996, 24, 451-452.	1.3	0
77	Regional three-dimensional geometry of the normal human left ventricle using cine computed tomography. Annals of Biomedical Engineering, 1996, 24, 583-594.	1.3	24
78	Correction to "Three-Dimensional Mapping of Acute Ischemic Regions Using Artificial Neural Networks. IEEE Transactions on Biomedical Engineering, 1996, 43, 972.	2.5	0
79	Three-dimensional mapping of acute ischemic regions using artificial neural networks and tagged MRI. IEEE Transactions on Biomedical Engineering, 1996, 43, 619-626.	2.5	10
80	Circular sampling: Perspective of a time-saving scanning procedure. Magnetic Resonance Imaging, 1996, 14, 625-631.	1.0	6
81	Effects of afterload on regional left ventricular torsion. Cardiovascular Research, 1996, 31, 917-925.	1.8	25
82	Distribution of Myocardial Strains: An MRI Study. Advances in Experimental Medicine and Biology, 1995, 382, 319-328.	0.8	8
83	Evaluation of regional load in acute ischemia by three-dimensional curvatures analysis of the left ventricle. Annals of Biomedical Engineering, 1993, 21, 147-161.	1.3	28
84	A conical model to describe the nonuniformity of the left ventricular twisting motion. Annals of Biomedical Engineering, 1992, 20, 149-165.	1.3	40
85	Dynamic analysis of left-ventricular shape based on curvature function. Basic Research in Cardiology, 1991, 86, 393-401.	2.5	4
86	Regional three-dimensional geometry and function of left ventricles with fibrous aneurysms. A cine-computed tomography study.. Circulation, 1991, 84, 1072-1086.	1.6	47
87	Discrimination between healthy and diseased hearts by spectra decomposition of their left ventricular three-dimensional geometry. IEEE Transactions on Medical Imaging, 1991, 10, 207-215.	5.4	11
88	Three-dimensional computer simulation of the cardiac system. Proceedings of the IEEE, 1988, 76, 708-719.	16.4	4
89	An Analytical Descrptor of Three-Dimensional Geometry: Application to the Analysis of the Left Ventricle Shape and Contraction. IEEE Transactions on Biomedical Engineering, 1987, BME-34, 345-355.	2.5	31
90	Application of the NUFFT for reconstruction problems in diffraction tomography. , 0, , .		1