

# Haim Azhari

## List of Publications by Year in descending order

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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	Noninvasive Measurement of Shortening in the Fiber and Cross-Fiber Directions in the Normal Human Left Ventricle and in Idiopathic Dilated Cardiomyopathy. <i>Circulation</i> , 1997, 96, 535-541.	1.6	179
2	Super-resolution in PET imaging. <i>IEEE Transactions on Medical Imaging</i> , 2006, 25, 137-147.	5.4	162
3	Correction of Heart Motion Due to Respiration in Clinical Myocardial Perfusion SPECT Scans Using Respiratory Gating. <i>Journal of Nuclear Medicine</i> , 2007, 48, 630-636.	2.8	94
4	Reconstruction in diffraction ultrasound tomography using nonuniform FFT. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 1395-1401.	5.4	92
5	Feasibility study of ultrasonic fatty liver biopsy: Texture vs. attenuation and backscatter. <i>Ultrasound in Medicine and Biology</i> , 2004, 30, 1321-1327.	0.7	84
6	Three-dimensional automatic quantitative analysis of intravascular ultrasound images. <i>Ultrasound in Medicine and Biology</i> , 2000, 26, 527-537.	0.7	69
7	Copper oxide nanoparticles inhibit pancreatic tumor growth primarily by targeting tumor initiating cells. <i>Scientific Reports</i> , 2019, 9, 12613.	1.6	66
8	A Method for Characterization of Tissue Elastic Properties Combining Ultrasonic Computed Tomography With Elastography. <i>Journal of Ultrasound in Medicine</i> , 2010, 29, 387-398.	0.8	65
9	Copper oxide nanoparticles as contrast agents for MRI and ultrasound dual-modality imaging. <i>Physics in Medicine and Biology</i> , 2015, 60, 5767-5783.	1.6	58
10	Automated Detection and Characterization of Multiple Sclerosis Lesions in Brain MR Images. <i>Magnetic Resonance Imaging</i> , 1998, 16, 311-318.	1.0	54
11	Regional three-dimensional geometry and function of left ventricles with fibrous aneurysms. A cine-computed tomography study.. <i>Circulation</i> , 1991, 84, 1072-1086.	1.6	47
12	A conical model to describe the nonuniformity of the left ventricular twisting motion. <i>Annals of Biomedical Engineering</i> , 1992, 20, 149-165.	1.3	40
13	Improved Image Fusion in PET/CT Using Hybrid Image Reconstruction and Super-Resolution. <i>International Journal of Biomedical Imaging</i> , 2007, 2007, 1-10.	3.0	38
14	The reduction of artifacts due to metal hip implants in CT-attenuation corrected PET images from hybrid PET/CT scanners. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 553-562.	1.6	36
15	An Analytical Descriptor of Three-Dimensional Geometry: Application to the Analysis of the Left Ventricle Shape and Contraction. <i>IEEE Transactions on Biomedical Engineering</i> , 1987, BME-34, 345-355.	2.5	31
16	Evaluation of regional load in acute ischemia by three-dimensional curvatures analysis of the left ventricle. <i>Annals of Biomedical Engineering</i> , 1993, 21, 147-161.	1.3	28
17	Feasibility Study of Ultrasonic Computed Tomographyâ€“Guided High-Intensity Focused Ultrasound. <i>Ultrasound in Medicine and Biology</i> , 2012, 38, 619-625.	0.7	26
18	Effects of afterload on regional left ventricular torsion. <i>Cardiovascular Research</i> , 1996, 31, 917-925.	1.8	25

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19	Regional three-dimensional geometry of the normal human left ventricle using cine computed tomography. <i>Annals of Biomedical Engineering</i> , 1996, 24, 583-594.	1.3	24
20	On direction finding of an emitting source from time delays. <i>Journal of the Acoustical Society of America</i> , 1999, 105, 3355-3363.	0.5	24
21	Non-invasive temperature monitoring and hyperthermic injury onset detection using X-ray CT during HIFU thermal treatment in <i>in vivo</i> fatty tissue. <i>International Journal of Hyperthermia</i> , 2014, 30, 119-125.	1.1	24
22	Safety and Tolerability of a Focused Ultrasound Device for Treatment of Adipose Tissue in Subjects Undergoing Abdominoplasty: A Placebo-Control Pilot Study. <i>Dermatologic Surgery</i> , 2013, 39, 744-751.	0.4	23
23	Three-dimensional analysis of the geometry of individual multiple sclerosis lesions: Detection of shape changes over time using spherical harmonics. <i>Journal of Magnetic Resonance Imaging</i> , 2003, 18, 291-301.	1.9	22
24	Volumetric Imaging with Ultrasonic Spiral CT. <i>Radiology</i> , 1999, 212, 270-275.	3.6	21
25	Dual $\beta$ -motion-frozen heart—combining respiration and contraction compensation in clinical myocardial perfusion SPECT imaging. <i>Journal of Nuclear Cardiology</i> , 2009, 16, 396-404.	1.4	21
26	Laser-induced thermal response and controlled release of copper oxide nanoparticles from multifunctional polymeric nanocarriers. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 218-233.	2.8	20
27	On the Human Left Ventricular Shape. <i>Journal of Biomedical Informatics</i> , 1999, 32, 264-282.	0.7	18
28	Measurement of speed of sound dispersion in soft tissues using a double frequency continuous wave method. <i>Ultrasound in Medicine and Biology</i> , 2006, 32, 1065-1071.	0.7	17
29	Age-Related Ultrasonic Properties of Breast Tissue <i>In Vivo</i> . <i>Ultrasound in Medicine and Biology</i> , 2014, 40, 2265-2271.	0.7	16
30	Copper oxide loaded PLGA nanospheres: towards a multifunctional nanoscale platform for ultrasound-based imaging and therapy. <i>Nanotechnology</i> , 2018, 29, 185102.	1.3	16
31	Ultrasound: Medical Imaging and Beyond (An Invited Review). <i>Current Pharmaceutical Biotechnology</i> , 2012, 13, 2104-2116.	0.9	16
32	Computerised Analysis of Liver Texture with Correlation to Needle Biopsy. <i>Ultraschall in Der Medizin</i> , 2005, 26, 197-202.	0.8	15
33	Temperature—density hysteresis in X-ray CT during HIFU thermal ablation: Heating and cooling phantom study. <i>International Journal of Hyperthermia</i> , 2014, 30, 27-35.	1.1	15
34	Ultrasonic computed tomography imaging of iron oxide nanoparticles. <i>Physics in Medicine and Biology</i> , 2017, 62, 825-842.	1.6	15
35	Method for rapid MRI needle tracking. <i>Magnetic Resonance in Medicine</i> , 2004, 51, 1083-1087.	1.9	14
36	Correction for respiration artefacts in myocardial perfusion SPECT is more effective when reconstructions supporting collimator detector response compensation are applied. <i>Journal of Nuclear Cardiology</i> , 2009, 16, 949-955.	1.4	14

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37	3-D surface reconstruction of multiple sclerosis lesions using spherical harmonics. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 756-766.	1.9	13
38	Speakersâ€™™ direction finding using estimated time delays in the frequency domain. <i>Signal Processing</i> , 2002, 82, 19-30.	2.1	13
39	Gradient field switching as a source for artifacts in MR imaging of metallic stents. <i>Magnetic Resonance in Medicine</i> , 2004, 52, 1465-1468.	1.9	13
40	Gold/Copper@Polydopamine Nanocomposite for Contrast-Enhanced Dual Modal Computed Tomographyâ€™™Magnetic Resonance Imaging. <i>ACS Applied Nano Materials</i> , 2019, 2, 6124-6134.	2.4	13
41	Planar strain analysis of liver undergoing microwave thermal ablation using x-ray CT. <i>Medical Physics</i> , 2015, 42, 372-380.	1.6	12
42	Discrimination between healthy and diseased hearts by spectra decomposition of their left ventricular three-dimensional geometry. <i>IEEE Transactions on Medical Imaging</i> , 1991, 10, 207-215.	5.4	11
43	Three-dimensional mapping of acute ischemic regions using artificial neural networks and tagged MRI. <i>IEEE Transactions on Biomedical Engineering</i> , 1996, 43, 619-626.	2.5	10
44	Hybrid Ultrasonic Computed Tomography. <i>Journal of Biomedical Informatics</i> , 1997, 30, 35-48.	0.7	10
45	Non-invasive Measurement of Thermal Diffusivity Using High-Intensity Focused Ultrasound and Through-Transmission Ultrasonic Imaging. <i>Ultrasound in Medicine and Biology</i> , 2016, 42, 243-256.	0.7	10
46	Assessment of Multiple Sclerosis Lesions with Spherical Harmonics: Comparison of MR Imaging and Pathologic Findings. <i>Radiology</i> , 2005, 235, 1036-1044.	3.6	9
47	Investigation of Acoustic Changes Resulting from Contrast Enhancement in Through-Transmission Ultrasonic Imaging. <i>Ultrasound in Medicine and Biology</i> , 2010, 36, 1395-1404.	0.7	9
48	Target visualisation and microwave hyperthermia monitoring using nanoparticle-enhanced transmission ultrasound (NETUS). <i>International Journal of Hyperthermia</i> , 2018, 34, 773-785.	1.1	9
49	Distribution of Myocardial Strains: An MRI Study. <i>Advances in Experimental Medicine and Biology</i> , 1995, 382, 319-328.	0.8	8
50	Mathematical formulation for computing the performance of self expanding helical stents. <i>International Journal of Medical Informatics</i> , 1997, 44, 127-133.	1.6	7
51	Highly dense FBG arrays for millimeter-scale thermal monitoring during nanocomposite-enhanced laser ablation. , 2020, , .		7
52	Circular sampling: Perspective of a time-saving scanning procedure. <i>Magnetic Resonance Imaging</i> , 1996, 14, 625-631.	1.0	6
53	MR angiography using spin-lock flow tagging. <i>Magnetic Resonance in Medicine</i> , 2001, 46, 1041-1044.	1.9	6
54	Rapid MR imaging by sensitivity profile indexing and deconvolution reconstruction (SPID). <i>Magnetic Resonance Imaging</i> , 2003, 21, 575-584.	1.0	6

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55	Ultrasonic Speed of Sound Dispersion Imaging. <i>Ultrasound in Medicine and Biology</i> , 2007, 33, 762-767.	0.7	6
56	In vitro evaluation of copper release from MRI-visible, PLGA-based nanospheres. <i>Journal of Materials Science</i> , 2021, 56, 718-730.	1.7	6
57	Three-dimensional computer simulation of the cardiac system. <i>Proceedings of the IEEE</i> , 1988, 76, 708-719.	16.4	4
58	Dynamic analysis of left-ventricular shape based on curvature function. <i>Basic Research in Cardiology</i> , 1991, 86, 393-401.	2.5	4
59	Localization of ischemia in canine hearts using tagged rotated long axis MR images, endocardial surface stretch and wall thickening. <i>Magnetic Resonance Imaging</i> , 1997, 15, 1037-1043.	1.0	4
60	Noninvasive Lipoma Size Reduction Using High-Intensity Focused Ultrasound. <i>Dermatologic Surgery</i> , 2013, 39, 1446-1451.	0.4	4
61	Rapid method for assessing relative tissue stiffness using MR acoustic radiation force imaging. <i>International Journal of Imaging Systems and Technology</i> , 2014, 24, 103-110.	2.7	4
62	Speed of Sound and Attenuation Temperature Dependence of Bovine Brain: Ex Vivo Study. <i>Journal of Ultrasound in Medicine</i> , 2020, 39, 1175-1186.	0.8	4
63	Ultrasound-induced and MRI-monitored CuO nanoparticles release from micelle encapsulation. <i>Nanotechnology</i> , 2021, 32, 055705.	1.3	4
64	Pattern analysis of temporal changes in the carotid artery diameter under normal and pathological conditions. <i>Medical Engineering and Physics</i> , 1997, 19, 352-358.	0.8	3
65	Application of spherical harmonics derived space rotation invariant indices to the analysis of multiple sclerosis lesions' geometry by MRI. <i>Magnetic Resonance Imaging</i> , 2004, 22, 815-825.	1.0	3
66	Multimodal Imaging and Hybrid Scanners. <i>International Journal of Biomedical Imaging</i> , 2007, 2007, 1-2.	3.0	3
67	Noninvasive microwave ablation zone radii estimation using x-ray CT image analysis. <i>Medical Physics</i> , 2016, 43, 4476-4482.	1.6	3
68	Assessment of Coded Excitation Implementation for Estimating Heat-Induced Speed of Sound Changes. <i>Ultrasound in Medicine and Biology</i> , 2018, 44, 187-198.	0.7	3
69	Optical flow and image segmentation analysis for noninvasive precise mapping of microwave thermal ablation in X-ray CT scans - <i>ex vivo</i> study. <i>International Journal of Hyperthermia</i> , 2018, 34, 744-755.	1.1	3
70	CORE-PI: Non-iterative convolution-based reconstruction for parallel MRI in the wavelet domain. <i>Medical Physics</i> , 2019, 46, 199-214.	1.6	3
71	CORE-Deblur: Parallel MRI Reconstruction by Deblurring using compressed sensing. <i>Magnetic Resonance Imaging</i> , 2020, 72, 25-33.	1.0	3
72	Temporal differences (TED) compressed sensing: a method for fast MRgHIFU temperature imaging. <i>NMR in Biomedicine</i> , 2020, 33, e4352.	1.6	3

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73	Feasibility Study of Contrast-Enhanced Automated Acoustic Mammography. Journal of Ultrasound in Medicine, 2013, 32, 825-833.	0.8	3
74	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
75	MRI and Ultrasound Imaging of Nanoparticles for Medical Diagnosis. , 2018, , 333-365.		2
76	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
77	Effect of aneurysmectomy on left ventricular shape and function: case studies. Medical Engineering and Physics, 1999, 21, 547-554.	0.8	1
78	Application of the NUFFT for reconstruction problems in diffraction tomography. , 0, , .		1
79	Velocity Measurements Using a Single Transmitted Linear Frequency-Modulated Chirp. Ultrasound in Medicine and Biology, 2007, 33, 768-773.	0.7	1
80	Feasibility Study of Contrast-Enhanced Automated Acoustic Mammography. Journal of Ultrasound in Medicine, 2013, 32, 825-833.	0.8	1
81	The twisting of the heart during contraction. Annals of Biomedical Engineering, 1996, 24, 451-452.	1.3	0
82	Correction to "Three-Dimensional Mapping of Acute Ischemic Regions Using Artificial Neural Networks. IEEE Transactions on Biomedical Engineering, 1996, 43, 972.	2.5	0
83	Implementation of helical computed tomography in magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2003, 18, 478-486.	1.9	0
84	Preliminary study of copper oxide nanoparticles acoustic and magnetic properties for medical imaging. Proceedings of SPIE, 2015, , .	0.8	0
85	In vivo noninvasive three-dimensional (3D) assessment of microwave thermal ablation zone using non-contrast-enhanced x-ray CT. Medical Physics, 2020, 47, 4721-4734.	1.6	0
86	Measurement of Enhanced Photothermal Effects of CuO-encapsulated Polymeric Nanospheres. , 2021, , .		0
87	Investigation of changes in acoustic properties resulting from contrast material in through-transmission ultrasonic imaging. IFMBE Proceedings, 2009, , 452-455.	0.2	0
88	Magnetic Resonance Imaging (MRI). , 2020, , 253-319.		0
89	Ultrasound Imaging. , 2020, , 321-364.		0
90	Ultrasonic Thermal Monitoring of the Brain Using Golay-Coded Excitations Feasibility Study. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 672-680.	1.7	0