Abhijit J Chaudhari

List of Publications by Year
in descending order

64	1,321	430874	377865
papers	citations	18 h-index	34 g-index

68	68	68	1704
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hyperspectral and multispectral bioluminescence optical tomography for small animal imaging. Physics in Medicine and Biology, 2005, 50, 5421-5441.	3.0	266
2	Initial Characterization of a Dedicated Breast PET/CT Scanner During Human Imaging. Journal of Nuclear Medicine, 2009, 50, 1401-1408.	5.0	113
3	Glutamine Addiction in Kidney Cancer Suppresses Oxidative Stress and Can Be Exploited for Real-Time Imaging. Cancer Research, 2017, 77, 6746-6758.	0.9	85
4	Fast iterative image reconstruction methods for fully 3D multispectral bioluminescence tomography. Physics in Medicine and Biology, 2008, 53, 3921-3942.	3.0	78
5	High-resolution¹⁸F-FDG PET/CT for assessing disease activity in rheumatoid and psoriatic arthritis: findings of a prospective pilot study. British Journal of Radiology, 2016, 89, 20160138.	2.2	49
6	High-resolution 18F-FDG PET with MRI for monitoring response to treatment in rheumatoid arthritis. European Journal of Nuclear Medicine and Molecular Imaging, 2010, 37, 1047-1047.	6.4	46
7	Real-Time Magnetic Resonance Imaging (MRI) during Active Wrist Motionâ€"Initial Observations. PLoS ONE, 2013, 8, e84004.	2.5	42
8	Multimodal characterization of compositional, structural and functional features of human atherosclerotic plaques. Biomedical Optics Express, 2011, 2, 2288.	2.9	40
9	MR Angiography of Renal Transplant Vasculature with Ferumoxytol:. Academic Radiology, 2016, 23, 368-373.	2.5	32
10	Global point signature for shape analysis of carpal bones. Physics in Medicine and Biology, 2014, 59, 961-973.	3.0	30
11	Excitation spectroscopy in multispectral optical fluorescence tomography: methodology, feasibility and computer simulation studies. Physics in Medicine and Biology, 2009, 54, 4687-4704.	3.0	29
12	Treatment Planning and Volumetric Response Assessment for Yttrium-90 Radioembolization: Semiautomated Determination of Liver Volume and Volume of Tumor Necrosis in Patients with Hepatic Malignancy. CardioVascular and Interventional Radiology, 2011, 34, 306-318.	2.0	27
13	High-resolution voxelation mapping of human and rodent brain gene expression. Journal of Neuroscience Methods, 2003, 125, 93-101.	2.5	23
14	Characterization of a high-resolution hybrid DOI detector for a dedicated breast PET/CT scanner. Physics in Medicine and Biology, 2012, 57, 3435-3449.	3.0	23
15	Crystal identification in positron emission tomography using nonrigid registration to a Fourier-based template. Physics in Medicine and Biology, 2008, 53, 5011-5027.	3.0	21
16	Association of adipose tissue and skeletal muscle metrics with overall survival and postoperative complications in soft tissue sarcoma patients: an opportunistic study using computed tomography. Quantitative Imaging in Medicine and Surgery, 2020, 10, 1580-1589.	2.0	21
17	Spatial Distortion Correction and Crystal Identification for MRI-Compatible Position-Sensitive Avalanche Photodiode-Based PET Scanners. IEEE Transactions on Nuclear Science, 2009, 56, 549-556.	2.0	20
18	TSPO PET Using [18F]PBR111 Reveals Persistent Neuroinflammation Following Acute Diisopropylfluorophosphate Intoxication in the Rat. Toxicological Sciences, 2019, 170, 330-344.	3.1	20

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19	Assessment of Myofascial Trigger Points via Imaging. American Journal of Physical Medicine and Rehabilitation, 2021, 100, 1003-1014.	1.4	19
20	DigiWarp: a method for deformable mouse atlas warping to surface topographic data. Physics in Medicine and Biology, 2010, 55, 6197-6214.	3.0	18
21	A method for atlas-based volumetric registration with surface constraints for optical bioluminescence tomography in small animal imaging. , 2007, 6510, 747.		17
22	Semi-automated volumetric quantification of tumor necrosis in soft tissue sarcoma using contrast-enhanced MRI. Anticancer Research, 2012, 32, 4951-61.	1.1	16
23	Posture matching and elastic registration of a mouse atlas to surface topography range data. , 2009, 2009, 366-369.		15
24	Real-time three-dimensional MRI for the assessment of dynamic carpal instability. PLoS ONE, 2019, 14, e0222704.	2.5	15
25	Consuming Sucrose- or HFCS-sweetened Beverages Increases Hepatic Lipid and Decreases Insulin Sensitivity in Adults. Journal of Clinical Endocrinology and Metabolism, 2021, 106, 3248-3264.	3.6	15
26	In vivoquantification of mouse autoimmune arthritis by PET/CT. International Journal of Rheumatic Diseases, 2016, 19, 452-458.	1.9	14
27	WRIST: A WRist Image Segmentation Toolkit for carpal bone delineation from MRI. Computerized Medical Imaging and Graphics, 2018, 63, 31-40.	5.8	14
28	In vivovalidation of a bimodal technique combining time-resolved fluorescence spectroscopy and ultrasonic backscatter microscopy for diagnosis of oral carcinoma. Journal of Biomedical Optics, 2012, 17, 116003.	2.6	13
29	Registration-Based Morphometry for Shape Analysis of the Bones of the Human Wrist. IEEE Transactions on Medical Imaging, 2016, 35, 416-426.	8.9	13
30	Total-Body ¹⁸F-FDG PET/CT in Autoimmune Inflammatory Arthritis at Ultra-Low Dose: Initial Observations. Journal of Nuclear Medicine, 2022, 63, 1579-1585.	5.0	13
31	PSPMT/APD Hybrid DOI Detectors for the PET Component of a Dedicated Breast PET/CT Systemâ€”A Feasibility Study. IEEE Transactions on Nuclear Science, 2008, 55, 853-861.	2.0	12
32	Non-rigid registration of serial dedicated breast CT, longitudinal dedicated breast CT and PET/CT images using the diffeomorphic demons method. Physica Medica, 2014, 30, 713-717.	0.7	12
33	Early and Delayed 99mTc-MDP SPECT/CT Findings in Rheumatoid Arthritis and Osteoarthritis. Clinical Nuclear Medicine, 2017, 42, e480-e481.	1.3	12
34	Dynamic MRI of the wrist in less than 20Âseconds: normal midcarpal motion and reader reliability. Skeletal Radiology, 2020, 49, 241-248.	2.0	12
35	Opportunistic body composition evaluation in patients with esophageal adenocarcinoma: association of survival with 18F-FDG PET/CT muscle metrics. Annals of Nuclear Medicine, 2020, 34, 174-181.	2.2	12
36	Using Global Illumination in Volume Visualization of Rheumatoid Arthritis CT Data. IEEE Computer Graphics and Applications, 2014, 34, 16-23.	1.2	11

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37	Total-Body PET Imaging of Musculoskeletal Disorders. PET Clinics, 2021, 16, 99-117.	3.0	11
38	Development of an Ultra High Resolution PET Scanner for Imaging Rodent Paws: PawPET. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 7-16.	3.7	10
39	â€œKnuckle Crackingâ€: Can Blinded Observers Detect Changes with Physical Examination and Sonography?. Clinical Orthopaedics and Related Research, 2017, 475, 1265-1271.	1.5	9
40	Effect of Object Size on Scatter Fraction Estimation Methods for PETâ€”A Computer Simulation Study. IEEE Transactions on Nuclear Science, 2011, 58, 82-86.	2.0	8
41	The Dose-Response Effects of Consuming High Fructose Corn Syrup-Sweetened Beverages on Hepatic Lipid Content and Insulin Sensitivity in Young Adults. Nutrients, 2022, 14, 1648.	4.1	8
42	Molecular Characterization of Rheumatoid Arthritis With Magnetic Resonance Imaging. Topics in Magnetic Resonance Imaging, 2011, 22, 61-69.	1.2	7
43	A principal component analysis-based framework for statistical modeling of bone displacement during wrist maneuvers. Journal of Biomechanics, 2019, 85, 173-181.	2.1	6
44	Ultrasound Backscatter Microscopy for Imaging of Oral Carcinoma. Journal of Ultrasound in Medicine, 2013, 32, 1789-1797.	1.7	5
45	Association of lunate morphology, sex, and lunotriquetral interosseous ligament injury with radiologic measurement of the capitate-triquetrum joint. Skeletal Radiology, 2017, 46, 1729-1737.	2.0	5
46	Quantitative tracking of inflammatory activity at the peak and trough plasma levels of tofacitinib, a Janus kinase inhibitor, via in vivo 18 Fâ€FDG PET. International Journal of Rheumatic Diseases, 2019, 22, 2165-2169.	1.9	5
47	Feasibility of dual-phase 99mTc-MDP SPECT/CT imaging in rheumatoid arthritis evaluation. Quantitative Imaging in Medicine and Surgery, 2021, 11, 2333-2343.	2.0	4
48	Multimodality high resolution wrist imaging for monitoring response to therapy in rheumatoid arthritis: Instrumentation and techniques. , 2008, , .		3
49	The Wrist: Athletic TFCC Injuries. Current Radiology Reports, 2017, 5, 1.	1.4	3
50	Application-specific nuclear medical in vivo imaging devices. Physics in Medicine and Biology, 2021, 66, 10TR01.	3.0	3
51	Skeletal Muscle Metrics on Clinical F-FDG PET/CT Predict Health Outcomes in Patients with Sarcoma. Journal of Nature and Science, 2018, 4, .	1.1	3
52	FAST IMAGE RECONSTRUCTION METHODS FOR FULLY 3D MULTISPECTRAL OPTICAL BIOLUMINESCENCE TOMOGRAPHY. , 2007, , .		2
53	Computationally efficient perturbative forward modeling for 3D multispectral bioluminescence and fluorescence tomography. Proceedings of SPIE, 2008, , .	0.8	2
54	Investigation of Different Transcript Quantitation Tools for High-Throughput Mapping of Brain Gene Expression Using Voxelation. Journal of Molecular Histology, 2003, 35, 397-402.	2.2	1

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55	PSPMT/APD hybrid DOI detectors for the PET component of a dedicated breast PET/CT system — A feasibility study. , 2007, , .		1
56	Spatial distortion correction and crystal identification for position-sensitive avalanche photodiode-based PET scanners. , 2008, , .		1
57	Morphometry for early monitoring of treatment response in rheumatoid arthritis. , 2013, , 121-124.		1
58	A prototype PET scanner with hybrid DOI-encoding detectors. , 2015, , .		1
59	MRI â€“ Histopathology Registration for Osteoarthritis Biomarker Evaluation. Osteoarthritis and Cartilage, 2017, 25, S229-S230.	1.3	1
60	Strain differences in the extent of brain injury in mice after tetramethylenedisulfotetramine-induced status epilepticus. NeuroToxicology, 2021, 87, 43-50.	3.0	1
61	Conference Scene: 2009 IEEE NSS/MIC in the USA. Imaging in Medicine, 2010, 2, 13-15.	0.0	0
62	Design and initial performance evaluation of DbPET2, an intermediate generation breast PET prototype. , 2011, , .		0
63	Genetic Algorithm based L4 Identification and Psoas Segmentation. , 2021, , .		0
64	5-LB: Consuming High-Fructose Corn Syrup or Sucrose-Sweetened Beverages Increases Hepatic Lipid Content and Decreases Insulin Sensitivity in Young Adults. Diabetes, 2020, 69, 5-LB.	0.6	0