

Pardis Ghafarian

List of Publications by Year in descending order

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papers

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687363
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times ranked

1027
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of image reconstruction settings on 18F-FDG PET radiomic features: multi-scanner phantom and patient studies. <i>European Radiology</i> , 2017, 27, 4498-4509.	4.5	148
2	Deep-JASC: joint attenuation and scatter correction in whole-body 18F-FDG PET using a deep residual network. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 2533-2548.	6.4	73
3	Direct attenuation correction of brain PET images using only emission data via a deep convolutional encoder-decoder (Deep-DAC). <i>European Radiology</i> , 2019, 29, 6867-6879.	4.5	72
4	Design and development of a high resolution animal SPECT scanner dedicated for rat and mouse imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 741, 169-176.	1.6	26
5	Experimental assessment of the influence of beam hardening filters on image quality and patient dose in volumetric 64-slice X-ray CT scanners. <i>Physica Medica</i> , 2013, 29, 249-260.	0.7	25
6	Is metal artefact reduction mandatory in cardiac PET/CT imaging in the presence of pacemaker and implantable cardioverter defibrillator leads?. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011, 38, 252-262.	6.4	24
7	Respiratory-Induced Errors in Tumor Quantification and Delineation in CT Attenuation-Corrected PET Images: Effects of Tumor Size, Tumor Location, and Respiratory Trace: A Simulation Study Using the 4D XCAT Phantom. <i>Molecular Imaging and Biology</i> , 2013, 15, 655-665.	2.6	24
8	Generation of a Four-Class Attenuation Map for MRI-Based Attenuation Correction of PET Data in the Head Area Using a Novel Combination of STE/Dixon-MRI and FCM Clustering. <i>Molecular Imaging and Biology</i> , 2015, 17, 884-892.	2.6	22
9	NEMA NU-2 2008 performance evaluation of Xtrim-PET: A prototype SiPM-based preclinical scanner. <i>Medical Physics</i> , 2019, 46, 4816-4825.	3.0	22
10	Performance evaluation of a newly developed high-resolution, dual-head animal SPECT system based on the NEMA NU-2 2007 standard. <i>Journal of Applied Clinical Medical Physics</i> , 2014, 15, 267-278.	1.9	19
11	Resolution-recovery-embedded image reconstruction for a high-resolution animal SPECT system. <i>Physica Medica</i> , 2014, 30, 774-781.	0.7	17
12	Qualitative and Quantitative Assessment of Metal Artifacts Arising from Implantable Cardiac Pacing Devices in Oncological PET/CT Studies: A Phantom Study. <i>Molecular Imaging and Biology</i> , 2011, 13, 1077-1087.	2.6	16
13	Impact of image reconstruction methods on quantitative accuracy and variability of FDG-PET volumetric and textural measures in solid tumors. <i>European Radiology</i> , 2019, 29, 2146-2156.	4.5	16
14	Synergistic impact of motion and acquisition/reconstruction parameters on ¹⁸ F-FDG PET radiomic features in non-small cell lung cancer: Phantom and clinical studies. <i>Medical Physics</i> , 2022, 49, 3783-3796.	3.0	14
15	Implementation of absolute quantification in small-animal SPECT imaging: Phantom and animal studies. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 215-223.	1.9	13
16	Monte Carlo-based evaluation of inter-crystal scatter and penetration in the PET subsystem of three GE Discovery PET/CT scanners. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 659, 508-514.	1.6	11
17	A novel energy mapping approach for CT-based attenuation correction in PET. <i>Medical Physics</i> , 2012, 39, 2078-2089.	3.0	10
18	Design and development of a dedicated portable gamma camera system for intra-operative imaging. <i>Physica Medica</i> , 2016, 32, 889-897.	0.7	10

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19	Compton scatter tomography in TOF-PET. Physics in Medicine and Biology, 2017, 62, 7641-7658.	3.0	10
20	MR-guided attenuation map for prostate PET-MRI: an intensity and morphologic-based segmentation approach for generating a five-class attenuation map in pelvic region. Annals of Nuclear Medicine, 2017, 31, 29-39.	2.2	10
21	Development and validation of an accurate GATE model for NeuroPET scanner. Physica Medica, 2017, 40, 59-65.	0.7	9
22	Quantification of the impact of TOF and PSF on PET images using the noise-matching concept: clinical and phantom study. Nuclear Science and Techniques/Hewuli, 2017, 28, 1.	3.4	9
23	Development and characterization of a compact hand-held gamma probe system, SURGEOGUIDE, based on NEMA NU3-2004 standards. Journal of Instrumentation, 2016, 11, T12004-T12004.	1.2	8
24	Quantification and reduction of respiratory induced artifacts in positron emission tomography/computed tomography using the time-of-flight technique. Nuclear Medicine Communications, 2017, 38, 948-955.	1.1	7
25	A Novel Method for Measuring the MTF of CT Scanners: A Phantom Study. , 2019, , .		7
26	Joint compensation of motion and partial volume effects by iterative deconvolution incorporating wavelet-based denoising in oncologic PET/CT imaging. Physica Medica, 2019, 68, 52-60.	0.7	6
27	Performance evaluation of developed dedicated breast PET scanner and improvement of the spatial resolution by wobbling: a Monte Carlo study. Japanese Journal of Radiology, 2020, 38, 790-799.	2.4	6
28	Tumor volume-adapted SUVN as an alternative to SUVpeak for quantification of small lesions in PET/CT imaging: a proof-of-concept study. Japanese Journal of Radiology, 2021, 39, 811-823.	2.4	6
29	Coronary calcium score scan-based attenuation correction in cardiovascular PET imaging. Nuclear Medicine Communications, 2010, 31, 780-787.	1.1	5
30	Capturing Bone Signal in MRI of Pelvis, as a Large FOV Region, Using TWIST Sequence and Generating a 5-Class Attenuation Map for Prostate PET/MRI Imaging. Molecular Imaging, 2018, 17, 153601211878931.	1.4	5
31	The impact of iterative reconstruction protocol, signal-to-background ratio and background activity on measurement of PET spatial resolution. Japanese Journal of Radiology, 2020, 38, 231-239.	2.4	5
32	Leveraging deep neural networks to improve numerical and perceptual image quality in low-dose preclinical PET imaging. Computerized Medical Imaging and Graphics, 2021, 94, 102010.	5.8	5
33	Impact of x-ray tube voltage, field size and object thickness on scattered radiation distribution in diagnostic radiology: A Monte Carlo investigation. , 2007, , .		4
34	Concept design and Monte Carlo performance evaluation of HeadphonePET: a novel brain-dedicated PET system based on partial cylindrical detectors. Journal of Instrumentation, 2018, 13, P07008-P07008.	1.2	4
35	A Deep Neural Network To Recover Missing Data In Small Animal Pet Imaging: Comparison Between Sinogram- And Image-Domain Implementations. , 2021, , .		4
36	A Review on Human Respiratory Modeling. Tanaffos, 2016, 15, 61-69.	0.5	4

#	ARTICLE	IF	CITATIONS
37	Impact of Time-of-Flight and Point-Spread-Function for Respiratory Artifact Reduction in PET/CT Imaging: Focus on Standardized Uptake Value. Tanaffos, 2017, 16, 127-135.	0.5	4
38	The Influence of X-Ray Spectra Filtration on Image Quality and Patient Dose in the GE VCT 64-Slice Cardiac CT Scanner. , 2009, , .		3
39	A hybrid method for generation of attenuation map for MR-based attenuation correction of PET data in prostate PET/MR imaging. EJNMML Physics, 2014, 1, A77.	2.7	3
40	Reconstruction/segmentation of attenuation map in TOF-PET based on mixture models. Annals of Nuclear Medicine, 2018, 32, 474-484.	2.2	3
41	Design, optimization and performance evaluation of BM-PET: A simulation study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 940, 274-282.	1.6	3
42	Characterization of scattered radiation profile in volumetric 64 slice CT scanner: Monte Carlo study using GATE. , 2011, , .		2
43	A new phantom for performance evaluation of bone mineral densitometry using DEXA and QCT. , 2011, , .		2
44	Mixture model based joint-MAP reconstruction of attenuation and activity maps in TOF-PET. Journal of Instrumentation, 2018, 13, P06005-P06005.	1.2	2
45	Quantification of PET and CT Data Misalignment Errors in Cardiac PET/CT:Clinical and Phantom Studies. , 2009, , .		0
46	Reduction of Intravenous Contrast Related Artifacts in CT-Based Attenuation Corrected PET Images. IFMBE Proceedings, 2009, , 513-516.	0.3	0
47	A Novel Phantom for Accurate Performance Assessment of Bone Mineral Measurement Techniques: DEXA and QCT. IFMBE Proceedings, 2011, , 47-50.	0.3	0
48	Design and performance evaluation of spheroid geometry for brain PET scanner using Monte Carlo modeling. Iranian Journal of Nuclear Medicine, 0, , .	0.0	0
49	Monte Carlo simulation and performance assessment of GE Discovery 690 VCT positron emission tomography/computed tomography scanner. World Journal of Nuclear Medicine, 2020, 19, 366.	0.5	0