

Samuel Espaa

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58 papers	1,013 citations	14 h-index	31 g-index
65 ext. papers	1,194 ext. citations	3.3 avg, IF	4.11 L-index

#	Paper	IF	Citations
58	Monte Carlo patient study on the comparison of prompt gamma and PET imaging for range verification in proton therapy. <i>Physics in Medicine and Biology</i> , 2011 , 56, 1063-82	3.8	125
57	Monitoring proton radiation therapy with in-room PET imaging. <i>Physics in Medicine and Biology</i> , 2011 , 56, 4041-57	3.8	86
56	DigiPET: sub-millimeter spatial resolution small-animal PET imaging using thin monolithic scintillators. <i>Physics in Medicine and Biology</i> , 2014 , 59, 3405-20	3.8	77
55	Vascular Inflammation in Subclinical Atherosclerosis Detected by Hybrid PET/MRI. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 1371-1382	15.1	70
54	FIRST: Fast Iterative Reconstruction Software for (PET) tomography. <i>Physics in Medicine and Biology</i> , 2006 , 51, 4547-65	3.8	66
53	Clinical consequences of relative biological effectiveness variations in proton radiotherapy of the prostate, brain and liver. <i>Physics in Medicine and Biology</i> , 2013 , 58, 2103-17	3.8	64
52	PeneloPET, a Monte Carlo PET simulation tool based on PENELOPE: features and validation. <i>Physics in Medicine and Biology</i> , 2009 , 54, 1723-42	3.8	61
51	The reliability of proton-nuclear interaction cross-section data to predict proton-induced PET images in proton therapy. <i>Physics in Medicine and Biology</i> , 2011 , 56, 2687-98	3.8	56
50	Performance evaluation of SiPM photodetectors for PET imaging in the presence of magnetic fields. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 613, 308-316	1.2	49
49	The impact of uncertainties in the CT conversion algorithm when predicting proton beam ranges in patients from dose and PET-activity distributions. <i>Physics in Medicine and Biology</i> , 2010 , 55, 7557-71	3.8	46
48	Design and performance evaluation of a coplanar multimodality scanner for rodent imaging. <i>Physics in Medicine and Biology</i> , 2009 , 54, 5427-41	3.8	46
47	Positron range estimations with PeneloPET. <i>Physics in Medicine and Biology</i> , 2013 , 58, 5127-52	3.8	43
46	Uncertainties in planned dose due to the limited voxel size of the planning CT when treating lung tumors with proton therapy. <i>Physics in Medicine and Biology</i> , 2011 , 56, 3843-56	3.8	29
45	GPU-Based Fast Iterative Reconstruction of Fully 3-D PET Sinograms. <i>IEEE Transactions on Nuclear Science</i> , 2011 , 58, 2257-2263	1.7	23
44	Cardiovascular imaging: what have we learned from animal models?. <i>Frontiers in Pharmacology</i> , 2015 , 6, 227	5.6	14
43	Study of CT-based positron range correction in high resolution 3D PET imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 648, S172-S175	1.2	14
42	Positron range effects in high resolution 3D PET imaging 2009 ,		14

41	Optimized light sharing for high-resolution TOF PET detector based on digital silicon photomultipliers. <i>Physics in Medicine and Biology</i> , 2014 , 59, 7125-39	3.8	11
40	Fast calibration of SPECT monolithic scintillation detectors using un-collimated sources. <i>Physics in Medicine and Biology</i> , 2013 , 58, 4807-25	3.8	11
39	Effects of Colchicine on Atherosclerotic Plaque Stabilization: a Multimodality Imaging Study in an Animal Model. <i>Journal of Cardiovascular Translational Research</i> , 2021 , 14, 150-160	3.3	10
38	Performance evaluation of SiPM detectors for PET imaging in the presence of magnetic fields 2008 ,		8
37	Assessment of regional pulmonary blood flow using Ga-DOTA PET. <i>EJNMMI Research</i> , 2017 , 7, 7	3.6	6
36	Fully 3D GPU PET reconstruction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 648, S169-S171	1.2	6
35	Design of a realistic PET-CT-MRI phantom 2011 ,		6
34	Frequency selective signal extrapolation for compensation of missing data in sinograms 2008 ,		6
33	Evaluation of PeneloPET Simulations of Biograph PET/CT Scanners. <i>IEEE Transactions on Nuclear Science</i> , 2016 , 63, 1367-1374	1.7	5
32	Experimental validation of gallium production and isotope-dependent positron range correction in PET. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016 , 814, 110-116	1.2	5
31	VrPET/CT: Development of a rotating multimodality scanner for small-animal imaging 2008 ,		4
30	Quantitative assessment of myocardial blood flow and extracellular volume fraction using Ga-DOTA-PET: A feasibility and validation study in large animals. <i>Journal of Nuclear Cardiology</i> , 2020 , 27, 1249-1260	2.1	4
29	Effects of dark counts on Digital Silicon Photomultipliers performance 2013 ,		3
28	Effects of the Super Bialkali Photocathode on the Performance Characteristics of a Position-Sensitive Depth-of-Interaction PET Detector Module. <i>IEEE Transactions on Nuclear Science</i> , 2010 , 57, 2437-2441	1.7	3
27	GPU acceleration of a fully 3D Iterative Reconstruction Software for PET using CUDA 2009 ,		3
26	Noise and physical limits to maximum resolution of PET images. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 580, 934-937	1.2	3
25	Simultaneous emission and attenuation reconstruction in time-of-flight PET using a reference object. <i>EJNMMI Physics</i> , 2020 , 7, 3	4.4	3
24	In Vivo 18 F-FDG-PET Imaging in Mouse Atherosclerosis. <i>Methods in Molecular Biology</i> , 2015 , 1339, 377-86	1.4	3

23	Monte Carlo simulations versus experimental measurements in a small animal PET system. A comparison in the NEMA NU 4-2008 framework. <i>Physics in Medicine and Biology</i> , 2015 , 60, 151-62	3.8	2
22	Evaluation of resistive-plate-chamber-based TOF-PET applied to in-beam particle therapy monitoring. <i>Physics in Medicine and Biology</i> , 2015 , 60, N187-208	3.8	2
21	Improved dead-time correction for PET scanners: application to small-animal PET. <i>Physics in Medicine and Biology</i> , 2013 , 58, 2059-72	3.8	2
20	Effects of the Super Bialkali photocathode on the performance characteristics of a position-sensitive depth-of-interaction PET detector module 2008 ,		2
19	Validation of PeneloPET against two small animal PET scanners 2007 ,		2
18	Improved image reconstruction in small animal PET using a priori estimates of single-pixel events 2007 ,		2
17	Explicit measurement of multi-tracer arterial input function for PET imaging using blood sampling spectroscopy. <i>EJNMMI Physics</i> , 2020 , 7, 7	4.4	2
16	Magnetic Resonance Imaging of the Atherosclerotic Mouse Aorta. <i>Methods in Molecular Biology</i> , 2015 , 1339, 387-94	1.4	2
15	Optimization of purification techniques for lumen-loaded magnetoliposomes. <i>Nanotechnology</i> , 2020 , 31, 145102	3.4	2
14	Bone marrow activation in response to metabolic syndrome and early atherosclerosis.. <i>European Heart Journal</i> , 2022 ,	9.5	2
13	Performance characterization of a compact SPECT detector based on dSiPMs and monolithic LYSO 2013 ,		1
12	Misalignments calibration in small-animal PET scanners based on rotating planar detectors and parallel-beam geometry. <i>Physics in Medicine and Biology</i> , 2012 , 57, 7493-518	3.8	1
11	Normalization in 3D PET: Dependence on the Activity Distribution of the Source 2006 ,		1
10	Revised consistency conditions for PET data 2007 ,		1
9	Optimal and Robust PET Data Sinogram Restoration Based on the Response of the System 2006 ,		1
8	Development of a blood sample detector for multi-tracer positron emission tomography using gamma spectroscopy. <i>EJNMMI Physics</i> , 2019 , 6, 25	4.4	1
7	Radiochromic film dosimetry for protons up to 10 MeV with EBT2, EBT3 and unlaminated EBT3 films. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	1
6	Direct proton range verification using oxygen-18 enriched water as a contrast agent. <i>Radiation Physics and Chemistry</i> , 2021 , 182, 109385	2.5	1

5	PeneloPET v3.0, an improved multiplatform PET Simulator 2019 ,		1
4	Analysis of F-Sodium Fluoride Positron Emission Tomography Signal Sources in Atherosclerotic Minipigs Shows Specific Binding of F-Sodium Fluoride to Plaque Calcifications. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , 41, e480-e490	9.4	1
3	In vivo production of fluorine-18 in a chicken egg tumor model of breast cancer for proton therapy range verification.. <i>Scientific Reports</i> , 2022 , 12, 7075	4.9	0
2	The effect of tissue-segmented attenuation maps on PET quantification with a special focus on large arteries. <i>Revista Espanola De Medicina Nuclear E Imagen Molecular</i> , 2018 , 37, 94-102	0.4	
1	TH-C-BRB-06: Comparison of Prompt Gamma and PET Imaging for Range Verification in Proton Therapy. <i>Medical Physics</i> , 2011 , 38, 3854-3854	4.4	