## Samuel Espaa

## List of Publications by Year in Descending Order

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

#	Paper	IF	Citations
58	Bone marrow activation in response to metabolic syndrome and early atherosclerosis <i>European Heart Journal</i> , <b>2022</b> ,	9.5	2
57	In vivo production of fluorine-18 in a chicken egg tumor model of breast cancer for proton therapy range verification <i>Scientific Reports</i> , <b>2022</b> , 12, 7075	4.9	О
56	Radiochromic film dosimetry for protons up to 10 MeV with EBT2, EBT3 and unlaminated EBT3 films. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	1
55	Direct proton range verification using oxygen-18 enriched water as a contrast agent. <i>Radiation Physics and Chemistry</i> , <b>2021</b> , 182, 109385	2.5	1
54	Effects of Colchicine on Atherosclerotic Plaque Stabilization: a Multimodality Imaging Study in an Animal Model. <i>Journal of Cardiovascular Translational Research</i> , <b>2021</b> , 14, 150-160	3.3	10
53	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> <b>2021</b> , 41, e480-e490	9.4	1
52	Simultaneous emission and attenuation reconstruction in time-of-flight PET using a reference object. <i>EJNMMI Physics</i> , <b>2020</b> , 7, 3	4.4	3
51	Explicit measurement of multi-tracer arterial input function for PET imaging using blood sampling spectroscopy. <i>EJNMMI Physics</i> , <b>2020</b> , 7, 7	4.4	2
50	Optimization of purification techniques for lumen-loaded magnetoliposomes. <i>Nanotechnology</i> , <b>2020</b> , 31, 145102	3.4	2
49	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> , <b>2020</b> , 27, 1249-1260	2.1	4
48	Vascular Inflammation in Subclinical Atherosclerosis Detected by Hybrid PET/MRI. <i>Journal of the American College of Cardiology</i> , <b>2019</b> , 73, 1371-1382	15.1	70
47	Development of a blood sample detector for multi-tracer positron emission tomography using gamma spectroscopy. <i>EJNMMI Physics</i> , <b>2019</b> , 6, 25	4.4	1
46	PeneloPET v3.0, an improved multiplatform PET Simulator <b>2019</b> ,		1
45	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> , <b>2018</b> , 37, 94-102	0.4	
44	Assessment of regional pulmonary blood flow using Ga-DOTA PET. <i>EJNMMI Research</i> , <b>2017</b> , 7, 7	3.6	6
43	Evaluation of PeneloPET Simulations of Biograph PET/CT Scanners. <i>IEEE Transactions on Nuclear Science</i> , <b>2016</b> , 63, 1367-1374	1.7	5
42	Experimental validation of gallium production and isotope-dependent positron range correction in PET. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, <b>2016</b> , 814, 110-116	1.2	5

## (2011-2015)

41	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> , <b>2015</b> , 60, 151-62	3.8	2
40	Evaluation of resistive-plate-chamber-based TOF-PET applied to in-beam particle therapy monitoring. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, N187-208	3.8	2
39	Cardiovascular imaging: what have we learned from animal models?. <i>Frontiers in Pharmacology</i> , <b>2015</b> , 6, 227	5.6	14
38	In Vivo 🖫-FDG-PET Imaging in Mouse Atherosclerosis. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1339, 377-86	1.4	3
37	Magnetic Resonance Imaging of the Atherosclerotic Mouse Aorta. <i>Methods in Molecular Biology</i> , <b>2015</b> , 1339, 387-94	1.4	2
36	Optimized light sharing for high-resolution TOF PET detector based on digital silicon photomultipliers. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 7125-39	3.8	11
35	DigiPET: sub-millimeter spatial resolution small-animal PET imaging using thin monolithic scintillators. <i>Physics in Medicine and Biology</i> , <b>2014</b> , 59, 3405-20	3.8	77
34	Positron range estimations with PeneloPET. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 5127-52	3.8	43
33	Fast calibration of SPECT monolithic scintillation detectors using un-collimated sources. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 4807-25	3.8	11
32	Improved dead-time correction for PET scanners: application to small-animal PET. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 2059-72	3.8	2
31	Performance characterization of a compact SPECT detector based on dSiPMs and monolithic LYSO <b>2013</b> ,		1
30	Effects of dark counts on Digital Silicon Photomultipliers performance 2013,		3
29	Clinical consequences of relative biological effectiveness variations in proton radiotherapy of the prostate, brain and liver. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 2103-17	3.8	64
28	Misalignments calibration in small-animal PET scanners based on rotating planar detectors and parallel-beam geometry. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 7493-518	3.8	1
27	Monitoring proton radiation therapy with in-room PET imaging. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 4041-57	3.8	86
26	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> , <b>2011</b> , 56, 1063-82	3.8	125
25	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> , <b>2011</b> , 648, S172-S175	1.2	14
24	Fully 3D GPU PET reconstruction. <i>Nuclear Instruments and Methods in Physics Research, Section A:</i> Accelerators, Spectrometers, Detectors and Associated Equipment, <b>2011</b> , 648, S169-S171	1.2	6

23	GPU-Based Fast Iterative Reconstruction of Fully 3-D PET Sinograms. <i>IEEE Transactions on Nuclear Science</i> , <b>2011</b> , 58, 2257-2263	1.7	23	
22	Design of a realistic PET-CT-MRI phantom <b>2011</b> ,		6	
21	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> , <b>2011</b> , 56, 3843-56	3.8	29	
20	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> , <b>2011</b> , 56, 2687-98	3.8	56	
19	TH-C-BRB-06: Comparison of Prompt Gamma and PET Imaging for Range Verification in Proton Therapy. <i>Medical Physics</i> , <b>2011</b> , 38, 3854-3854	4.4		
18	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> , <b>2010</b> , 55, 7557-71	3.8	46	
17	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> , <b>2010</b> , 57, 2437-2441	1.7	3	
16	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> , <b>2010</b> , 613, 308-316	1.2	49	
15	GPU acceleration of a fully 3D Iterative Reconstruction Software for PET using CUDA 2009,		3	
14	Positron range effects in high resolution 3D PET imaging <b>2009</b> ,		14	
13	Design and performance evaluation of a coplanar multimodality scanner for rodent imaging. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 5427-41	3.8	46	
12	PeneloPET, a Monte Carlo PET simulation tool based on PENELOPE: features and validation. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 1723-42	3.8	61	
11	Frequency selective signal extrapolation for compensation of missing data in sinograms 2008,		6	
10	VrPET/CT: Development of a rotating multimodality scanner for small-animal imaging 2008,		4	
9	Performance evaluation of SiPM detectors for PET imaging in the presence of magnetic fields 2008,		8	
8	Effects of the Super Bialkali photocathode on the performance characteristics of a position-sensitive depth-of-interaction PET detector module <b>2008</b> ,		2	
7	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> , <b>2007</b> , 580, 934-937	1.2	3	
6	Revised consistency conditions for PET data 2007,		1	

## LIST OF PUBLICATIONS

5	Validation of PeneloPET against two small animal PET scanners <b>2007</b> ,		2
4	Improved image reconstruction in small animal PET using a priori estimates of single-pixel events <b>2007</b> ,		2
3	Normalization in 3D PET: Dependence on the Activity Distribution of the Source 2006,		1
2	FIRST: Fast Iterative Reconstruction Software for (PET) tomography. <i>Physics in Medicine and Biology</i> , <b>2006</b> , 51, 4547-65	3.8	66
1	Optimal and Robust PET Data Sinogram Restoration Based on the Response of the System <b>2006</b> ,		1