

# Jae Sung Lee

## List of Publications by Year in descending order

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249  
papers

7,840  
citations

53660

45  
h-index

71532

76  
g-index

262  
all docs

262  
docs citations

262  
times ranked

8537  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-modal plasticity and cochlear implants. <i>Nature</i> , 2001, 409, 149-150.	13.7	575
2	Increased Occupancy of Dopamine Receptors in Human Striatum during Cue-Elicited Cocaine Craving. <i>Neuropsychopharmacology</i> , 2006, 31, 2716-2727.	2.8	280
3	Initial Results of Simultaneous PET/MRI Experiments with an MRI-Compatible Silicon Photomultiplier PET Scanner. <i>Journal of Nuclear Medicine</i> , 2012, 53, 608-614.	2.8	214
4	Tumor-Associated Macrophages Enhance Tumor Hypoxia and Aerobic Glycolysis. <i>Cancer Research</i> , 2019, 79, 795-806.	0.4	188
5	Posterior cingulate cortex atrophy and regional cingulum disruption in mild cognitive impairment and Alzheimer's disease. <i>Neurobiology of Aging</i> , 2010, 31, 772-779.	1.5	178
6	Comparison of Segmentation-Based Attenuation Correction Methods for PET/MRI: Evaluation of Bone and Liver Standardized Uptake Value with Oncologic PET/CT Data. <i>Journal of Nuclear Medicine</i> , 2012, 53, 1878-1882.	2.8	178
7	Neural correlates of clinical symptoms and cognitive dysfunctions in obsessive-compulsive disorder. <i>Psychiatry Research - Neuroimaging</i> , 2003, 122, 37-47.	0.9	173
8	Performance Measurement of the microPET Focus 120 Scanner. <i>Journal of Nuclear Medicine</i> , 2007, 48, 1527-1535.	2.8	161
9	Computed tomography super-resolution using deep convolutional neural network. <i>Physics in Medicine and Biology</i> , 2018, 63, 145011.	1.6	155
10	Positron emission tomography (PET) detectors with depth-of- interaction (DOI) capability. <i>Biomedical Engineering Letters</i> , 2011, 1, 70-81.	2.1	136
11	Differences in $\mu$ - and $\delta$ -Opioid Receptor Blockade Measured by Positron Emission Tomography in Naltrexone-Treated Recently Abstinent Alcohol-Dependent Subjects. <i>Neuropsychopharmacology</i> , 2008, 33, 653-665.	2.8	133
12	Metabolic connectivity by interregional correlation analysis using statistical parametric mapping (SPM) and FDG brain PET; methodological development and patterns of metabolic connectivity in adults. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2008, 35, 1681-1691.	3.3	131
13	Improving the Accuracy of Simultaneously Reconstructed Activity and Attenuation Maps Using Deep Learning. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1624-1629.	2.8	124
14	Regional cerebral perfusion abnormalities in attention deficit/hyperactivity disorder. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2002, 252, 219-225.	1.8	119
15	Regional cerebral blood flow in children with attention deficit hyperactivity disorder: Comparison before and after methylphenidate treatment. <i>Human Brain Mapping</i> , 2005, 24, 157-164.	1.9	108
16	Prediction of the Clinical Outcome of Pediatric Moyamoya Disease With Postoperative Basal/Acetazolamide Stress Brain Perfusion SPECT After Revascularization Surgery. <i>Stroke</i> , 2005, 36, 1485-1489.	1.0	107
17	Generation of PET Attenuation Map for Whole-Body Time-of-Flight $^{18}$ F-FDG PET/MRI Using a Deep Neural Network Trained with Simultaneously Reconstructed Activity and Attenuation Maps. <i>Journal of Nuclear Medicine</i> , 2019, 60, 1183-1189.	2.8	104
18	Presynaptic Dopamine Capacity in Patients with Treatment-Resistant Schizophrenia Taking Clozapine: An [ $^{18}$ F]DOPA PET Study. <i>Neuropsychopharmacology</i> , 2017, 42, 941-950.	2.8	98

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19	Acute manganese administration alters dopamine transporter levels in the non-human primate striatum. <i>NeuroToxicology</i> , 2006, 27, 229-236.	1.4	87
20	Development of Small-Animal PET Prototype Using Silicon Photomultiplier (SiPM): Initial Results of Phantom and Animal Imaging Studies. <i>Journal of Nuclear Medicine</i> , 2011, 52, 572-579.	2.8	86
21	Methylphenidate increased regional cerebral blood flow in subjects with attention deficit/hyperactivity disorder. <i>Yonsei Medical Journal</i> , 2001, 42, 19.	0.9	79
22	Ictal SPECT in neocortical epilepsies: clinical usefulness and factors affecting the pattern of hyperperfusion. <i>Neuroradiology</i> , 2006, 48, 678-684.	1.1	77
23	Brain single photon emission computed tomography findings in depressive pseudodementia patients. <i>Journal of Affective Disorders</i> , 2002, 69, 159-166.	2.0	76
24	Dual-Phase Tapped-Delay-Line Time-to-Digital Converter With On-the-Fly Calibration Implemented in 40 nm FPGA. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016, 10, 231-242.	2.7	75
25	Time-to-Digital Converter Using a Tuned-Delay Line Evaluated in 28-, 40-, and 45-nm FPGAs. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 1678-1689.	2.4	72
26	Small Animal Imaging in Drug Development. <i>Current Pharmaceutical Design</i> , 2005, 11, 3247-3272.	0.9	68
27	A Four-Layer DOI Detector With a Relative Offset for Use in an Animal PET System. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 976-981.	1.2	67
28	Quantification of F-18 FDG PET Images in Temporal Lobe Epilepsy Patients Using Probabilistic Brain Atlas. <i>NeuroImage</i> , 2001, 14, 1-6.	2.1	65
29	Development of Korean Standard Brain Templates. <i>Journal of Korean Medical Science</i> , 2005, 20, 483.	1.1	65
30	Simultaneous Multiparametric PET/MRI with Silicon Photomultiplier PET and Ultra-High-Field MRI for Small-Animal Imaging. <i>Journal of Nuclear Medicine</i> , 2016, 57, 1309-1315.	2.8	64
31	Tractography-guided statistics (TGIS) in diffusion tensor imaging for the detection of gender difference of fiber integrity in the midsagittal and parasagittal corpora callosa. <i>NeuroImage</i> , 2007, 36, 606-616.	2.1	61
32	Continuous depth-of-interaction measurement in a single-layer pixelated crystal array using a single-ended readout. <i>Physics in Medicine and Biology</i> , 2013, 58, 1269-1282.	1.6	61
33	Deep-dose: a voxel dose estimation method using deep convolutional neural network for personalized internal dosimetry. <i>Scientific Reports</i> , 2019, 9, 10308.	1.6	61
34	Diagnostic performance of 18F-FDG PET and ictal 99mTc-HMPAO SPET in pediatric temporal lobe epilepsy: Quantitative analysis by statistical parametric mapping, statistical probabilistic anatomical map, and subtraction ictal SPET. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2005, 14, 213-220.	0.9	58
35	A Review of Deep-Learning-Based Approaches for Attenuation Correction in Positron Emission Tomography. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021, 5, 160-184.	2.7	58
36	PET evidence of neuroplasticity in adult auditory cortex of postlingual deafness. <i>Journal of Nuclear Medicine</i> , 2003, 44, 1435-9.	2.8	56

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37	Regional Cerebral Blood Flow Abnormalities Associated With Apathy and Depression in Alzheimer Disease. <i>Alzheimer Disease and Associated Disorders</i> , 2012, 26, 217-224.	0.6	55
38	Topographic Patterns of Brain Functional Impairment Progression According to Clinical Severity Staging in 116 Alzheimer Disease Patients: FDG-PET Study. <i>Alzheimer Disease and Associated Disorders</i> , 2007, 21, 77-84.	0.6	52
39	An Investigation Into the Use of Geiger-Mode Solid-State Photomultipliers for Simultaneous PET and MRI Acquisition. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 882-888.	1.2	52
40	Whole-Body Distribution and Radiation Dosimetry of $^{68}\text{Ga}$ -NOTA-RGD, a Positron Emission Tomography Agent for Angiogenesis Imaging. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2012, 27, 65-71.	0.7	52
41	Putaminal serotonergic innervation. <i>Neurology</i> , 2015, 85, 853-860.	1.5	51
42	The relationship between antipsychotic D2 occupancy and change in frontal metabolism and working memory. <i>Psychopharmacology</i> , 2013, 227, 221-229.	1.5	49
43	Evaluation of a silicon photomultiplier PET insert for simultaneous PET and MR imaging. <i>Medical Physics</i> , 2015, 43, 72-83.	1.6	49
44	Disparity of Perfusion and Glucose Metabolism of Epileptogenic Zones in Temporal Lobe Epilepsy Demonstrated by SPM/SPAM Analysis on $^{15}\text{O}$ Water PET, $^{18}\text{F}$ FDG-PET, and $^{99\text{m}}\text{Tc}$ -HMPAO SPECT. <i>Epilepsia</i> , 2001, 42, 1515-1522.	2.6	48
45	Dissociation of Working Memory Processing Associated with Native and Second Languages: PET Investigation. <i>NeuroImage</i> , 2002, 15, 879-891.	2.1	47
46	Frontal Dysfunction Underlies Depressive Syndrome in Alzheimer Disease: A FDG-PET Study. <i>American Journal of Geriatric Psychiatry</i> , 2006, 14, 625-628.	0.6	46
47	Design and simulation of a novel method for determining depth-of-interaction in a PET scintillation crystal array using a single-ended readout by a multi-anode PMT. <i>Physics in Medicine and Biology</i> , 2010, 55, 3827-3841.	1.6	46
48	A Dual-Ended Readout Detector Using a Meantime Method for SiPM TOF-DOI PET. <i>IEEE Transactions on Nuclear Science</i> , 2015, 62, 1935-1943.	1.2	46
49	Adaptive template generation for amyloid PET using a deep learning approach. <i>Human Brain Mapping</i> , 2018, 39, 3769-3778.	1.9	46
50	Integrated Whole Body MR/PET: Where Are We?. <i>Korean Journal of Radiology</i> , 2015, 16, 32.	1.5	44
51	SiPM-PET with a short optical fiber bundle for simultaneous PET-MR imaging. <i>Physics in Medicine and Biology</i> , 2012, 57, 3869-3883.	1.6	42
52	Extrastriatal dopaminergic changes in Parkinson's disease patients with impulse control disorders. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014, 85, 23-30.	0.9	42
53	Videostrobokymography: A New Method for the Quantitative Analysis of Vocal Fold Vibration. <i>Laryngoscope</i> , 1999, 109, 1859-1863.	1.1	41
54	Kinetic Modeling of $^{3\text{-deoxy-}^{18}\text{F}}$ -Fluorothymidine for Quantitative Cell Proliferation Imaging in Subcutaneous Tumor Models in Mice. <i>Journal of Nuclear Medicine</i> , 2008, 49, 2057-2066.	2.8	40

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55	[11C]-(R)-PK11195 positron emission tomography in patients with complex regional pain syndrome. <i>Medicine (United States)</i> , 2017, 96, e5735.	0.4	40
56	Whole-Body Voxel-Based Personalized Dosimetry: The Multiple Voxel S-Value Approach for Heterogeneous Media with Nonuniform Activity Distributions. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1133-1139.	2.8	40
57	Measurement of Glomerular Filtration Rate using Quantitative SPECT/CT and Deep-learning-based Kidney Segmentation. <i>Scientific Reports</i> , 2019, 9, 4223.	1.6	40
58	Effect of worry on regional cerebral blood flow in nonanxious subjects. <i>Psychiatry Research - Neuroimaging</i> , 2005, 140, 259-269.	0.9	39
59	Highly Integrated FPGA-Only Signal Digitization Method Using Single-Ended Memory Interface Input Receivers for Time-of-Flight PET Detectors. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2018, 12, 1401-1409.	2.7	38
60	The relationship between regional cerebral blood flow and response to methylphenidate in children with attention-deficit hyperactivity disorder: Comparison between non-responders to methylphenidate and responders. <i>Journal of Psychiatric Research</i> , 2007, 41, 459-465.	1.5	37
61	Neural Correlates of the Clock Drawing Test Performance in Alzheimer's Disease: A FDG-PET Study. <i>Dementia and Geriatric Cognitive Disorders</i> , 2008, 26, 306-313.	0.7	37
62	Discrimination of normal aging, MCI and AD with multimodal imaging measures on the medial temporal lobe. <i>Psychiatry Research - Neuroimaging</i> , 2010, 183, 237-243.	0.9	37
63	Radiation Dose from Whole-Body F-18 Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography: Nationwide Survey in Korea. <i>Journal of Korean Medical Science</i> , 2016, 31, S69.	1.1	37
64	Whole-Brain Diffusion-Tensor Changes in Parkinsonian Patients with Impulse Control Disorders.		

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73	A depth-of-interaction PET detector using a stair-shaped reflector arrangement and a single-ended scintillation light readout. <i>Physics in Medicine and Biology</i> , 2017, 62, 465-483.	1.6	30
74	Different uptake of <sup>99m</sup> Tc-ECD and <sup>99m</sup> Tc-HMPAO in the same brains: analysis by statistical parametric mapping. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2001, 28, 191-197.	2.2	29
75	Probabilistic map of blood flow distribution in the brain from the internal carotid artery. <i>NeuroImage</i> , 2004, 23, 1422-1431.	2.1	29
76	Voxel-based statistical analysis of cerebral glucose metabolism in the rat cortical deafness model by 3D reconstruction of brain from autoradiographic images. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2005, 32, 696-701.	3.3	29
77	Depth-of-interaction measurement in a single-layer crystal array with a single-ended readout using digital silicon photomultiplier. <i>Physics in Medicine and Biology</i> , 2015, 60, 6495-6514.	1.6	29
78	Hybrid charge division multiplexing method for silicon photomultiplier based PET detectors. <i>Physics in Medicine and Biology</i> , 2017, 62, 4390-4405.	1.6	29
79	Localization of epileptogenic zones in F-18 FDG brain PET of patients with temporal lobe epilepsy using artificial neural network. <i>IEEE Transactions on Medical Imaging</i> , 2000, 19, 347-355.	5.4	28
80	Superiority of HMPAO Ictal SPECT to ECD Ictal SPECT in Localizing the Epileptogenic Zone. <i>Epilepsia</i> , 2002, 43, 263-269.	2.6	28
81	Predicting Brain Occupancy from Plasma Levels using PET: Superiority of Combining Pharmacokinetics with Pharmacodynamics while Modeling the Relationship. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 759-768.	2.4	28
82	Signal encoding method for a time-of-flight PET detector using a silicon photomultiplier array. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 761, 39-45.	0.7	28
83	Clinical Applications of Simultaneous PET/MR Imaging Using [ <sup>11</sup> C]-Verapamil with Cyclosporin A: Preliminary Results on a Surrogate Marker of Drug-Resistant Epilepsy. <i>American Journal of Neuroradiology</i> , 2016, 37, 600-606.	1.2	28
84	MRI-Based Attenuation Correction for PET/MRI Using Multiphase Level-Set Method. <i>Journal of Nuclear Medicine</i> , 2016, 57, 587-593.	2.8	28
85	The relationship between dopamine receptor blockade and cognitive performance in schizophrenia: a [ <sup>11</sup> C]-raclopride PET study with aripiprazole. <i>Translational Psychiatry</i> , 2018, 8, 87.	2.4	28
86	Efficacy assessment of cerebral arterial bypass surgery using statistical parametric mapping and probabilistic brain atlas on basal/acetazolamide brain perfusion SPECT. <i>Journal of Nuclear Medicine</i> , 2004, 45, 202-6.	2.8	28
87	Age-associated changes of cerebral glucose metabolic activity in both male and female deaf children: parametric analysis using objective volume of interest and voxel-based mapping. <i>NeuroImage</i> , 2004, 22, 1543-1553.	2.1	27
88	Probabilistic Anatomic Mapping of Cerebral Blood Flow Distribution of the Middle Cerebral Artery. <i>Journal of Nuclear Medicine</i> , 2008, 49, 39-43.	2.8	27
89	A method for assessing the regional vibratory pattern of vocal folds by analysing the video recording of stroboscopy. <i>Medical and Biological Engineering and Computing</i> , 2001, 39, 273-278.	1.6	26
90	Gap compensation during PET image reconstruction by constrained, total variation minimization. <i>Medical Physics</i> , 2012, 39, 589-602.	1.6	26

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91	Resolution recovery reconstruction for a Compton camera. <i>Physics in Medicine and Biology</i> , 2013, 58, 2823-2840.	1.6	26
92	Two approaches to implementing projector-backprojector pairs for 3D reconstruction from Compton scattered data. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 571, 255-258.	0.7	25
93	Development of a front-end analog circuit for multi-channel SiPM readout and performance verification for various PET detector designs. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 703, 38-44.	0.7	25
94	Feasibility and kinetic characteristics of <sup>68</sup> Ga-NOTA-RGD PET for in vivo atherosclerosis imaging. <i>Annals of Nuclear Medicine</i> , 2013, 27, 847-854.	1.2	25
95	Timing Performance Study of New Fast PMTs With LYSO for Time-of-Flight PET. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 30-37.	1.2	25
96	Development and applications of a software for Functional Image Registration (FIRE). <i>Computer Methods and Programs in Biomedicine</i> , 2005, 78, 157-164.	2.6	24
97	Development of double-scattering-type Compton camera with double-sided silicon strip detectors and NaI(Tl) scintillation detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 615, 333-339.	0.7	24
98	Fully three-dimensional OSEM-based image reconstruction for Compton imaging using optimized ordering schemes. <i>Physics in Medicine and Biology</i> , 2010, 55, 5007-5027.	1.6	24
99	Segmentation-Based MR Attenuation Correction Including Bones Also Affects Quantitation in Brain Studies: An Initial Result of <sup>18</sup> F-FP-CIT PET/MR for Patients with Parkinsonism. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1617-1622.	2.8	24
100	Development of FPGA-based coincidence units with veto function. <i>Biomedical Engineering Letters</i> , 2011, 1, 27-31.	2.1	23
101	Crystal surface and reflector optimization for the SiPM-based dual-ended readout TOF-DOI PET detector. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 065028.	0.6	23
102	Technical Advances in Current PET and Hybrid Imaging Systems. <i>The Open Nuclear Medicine Journal</i> , 2010, 2, 192-208.	0.2	23
103	Assessment of Cerebral Glucose Metabolism in Cat Deafness Model: Strategies for Improving the Voxel-Based Statistical Analysis for Animal PET Studies. <i>Molecular Imaging and Biology</i> , 2008, 10, 154-161.	1.3	22
104	Highly multiplexed SiPM signal readout for brain-dedicated TOF-DOI PET detectors. <i>Physica Medica</i> , 2019, 68, 117-123.	0.4	22
105	SimPET: a Preclinical PET Insert for Simultaneous PET/MR Imaging. <i>Molecular Imaging and Biology</i> , 2020, 22, 1208-1217.	1.3	22
106	Scalable electronic readout design for a 100 ps coincidence time resolution TOF-PET system. <i>Physics in Medicine and Biology</i> , 2021, 66, 085005.	1.6	22
107	Proof-of-concept prototype time-of-flight PET system based on high-quantum-efficiency multianode PMTs. <i>Medical Physics</i> , 2017, 44, 5314-5324.	1.6	21
108	Self-supervised PET Denoising. <i>Nuclear Medicine and Molecular Imaging</i> , 2020, 54, 299-304.	0.6	21

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109	Performance characterization of high quantum efficiency metal package photomultiplier tubes for time-of-flight and high-resolution PET applications. <i>Medical Physics</i> , 2015, 42, 510-520.	1.6	20
110	Deep learning-Based 3D inpainting of brain MR images. <i>Scientific Reports</i> , 2021, 11, 1673.	1.6	20
111	Changes of 2-deoxyglucose uptake in the rat auditory pathway after bilateral ablation of the cochlea. <i>Hearing Research</i> , 2004, 196, 33-38.	0.9	19
112	Single transmission-line readout method for silicon photomultiplier based time-of-flight and depth-of-interaction PET. <i>Physics in Medicine and Biology</i> , 2017, 62, 2194-2207.	1.6	19
113	Prototype pre-clinical PET scanner with depth-of-interaction measurements using single-layer crystal array and single-ended readout. <i>Physics in Medicine and Biology</i> , 2017, 62, 3983-3996.	1.6	19
114	Abnormal neuroinflammation in fibromyalgia and CRPS using [11C]-(R)-PK11195 PET. <i>PLoS ONE</i> , 2021, 16, e0246152.	1.1	19
115	The usefulness of repeated ictal SPET for the localization of epileptogenic zones in intractable epilepsy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2002, 29, 607-614.	3.3	18
116	FDG-PET for Pharmacodynamic Assessment of the Fatty Acid Synthase Inhibitor C75 in an Experimental Model of Lung Cancer. <i>Pharmaceutical Research</i> , 2007, 24, 1202-1207.	1.7	18
117	Delay grid multiplexing: simple time-based multiplexing and readout method for silicon photomultipliers. <i>Physics in Medicine and Biology</i> , 2016, 61, 7113-7135.	1.6	18
118	Recovery of inter-detector and inter-crystal scattering in brain PET based on LSO and GAGG crystals. <i>Physics in Medicine and Biology</i> , 2020, 65, 195005.	1.6	18
119	Loss of asymmetry in D <sub>2</sub> receptors of putamen in unaffected family members at increased genetic risk for schizophrenia. <i>Acta Psychiatrica Scandinavica</i> , 2008, 118, 200-208.	2.2	17
120	A New Image-Based Stroke Registry Containing Quantitative Magnetic Resonance Imaging Data. <i>Cerebrovascular Diseases</i> , 2011, 32, 567-576.	0.8	17
121	Advances in imaging instrumentation for nuclear cardiology. <i>Journal of Nuclear Cardiology</i> , 2019, 26, 543-556.	1.4	17
122	Silicon photomultiplier signal readout and multiplexing techniques for positron emission tomography: a review. <i>Biomedical Engineering Letters</i> , 2022, 12, 263-283.	2.1	17
123	Cross-modal and compensatory plasticity in adult deafened cats: A longitudinal PET study. <i>Brain Research</i> , 2010, 1354, 85-90.	1.1	16
124	Monte Carlo simulation of a four-layer DOI detector with relative offset in animal PET. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 626-627, 43-50.	0.7	16
125	Recent Advances in Hybrid Molecular Imaging Systems. <i>Seminars in Musculoskeletal Radiology</i> , 2014, 18, 103-122.	0.4	16
126	Evaluation of a fast photomultiplier tube for time-of-flight PET. <i>Biomedical Engineering Letters</i> , 2011, 1, 174-179.	2.1	15



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127	Feasibility of PET Template-Based Analysis on F-18 FP-CIT PET in Patients with De Novo Parkinson's Disease. <i>Nuclear Medicine and Molecular Imaging</i> , 2013, 47, 73-80.	0.6	15
128	Preclinical voxel-based dosimetry through GATE Monte Carlo simulation using PET/CT imaging of mice. <i>Physics in Medicine and Biology</i> , 2019, 64, 095007.	1.6	15
129	Frontostriatal functional connectivity and striatal dopamine synthesis capacity in schizophrenia in terms of antipsychotic responsiveness: an [ <sup>18</sup> F]DOPA PET and fMRI study. <i>Psychological Medicine</i> , 2019, 49, 2533-2542.	2.7	15
130	Dopamine dysregulation in psychotic relapse after antipsychotic discontinuation: an [ <sup>18</sup> F]DOPA and [ <sup>11</sup> C]raclopride PET study in first-episode psychosis. <i>Molecular Psychiatry</i> , 2021, 26, 3476-3488.	4.1	15
131	[ <sup>18</sup> F]CB251 PET/MR imaging probe targeting translocator protein (TSPO) independent of its Polymorphism in a Neuroinflammation Model. <i>Theranostics</i> , 2020, 10, 9315-9331.	4.6	15
132	Synthetic CT generation from weakly paired MR images using cycle-consistent GAN for MR-guided radiotherapy. <i>Biomedical Engineering Letters</i> , 2021, 11, 263-271.	2.1	15
133	Generation of parametric image of regional myocardial blood flow using H <sub>2</sub> ( <sup>15</sup> O) dynamic PET and a linear least-squares method. <i>Journal of Nuclear Medicine</i> , 2005, 46, 1687-95.	2.8	15
134	Experimental performance of double-scattering Compton camera with anthropomorphic phantom. <i>Journal of Instrumentation</i> , 2011, 6, C01024-C01024.	0.5	14
135	A novel compensation method for the anode gain non-uniformity of multi-anode photomultiplier tubes. <i>Physics in Medicine and Biology</i> , 2012, 57, 191-207.	1.6	14
136	Performance Evaluation of SimPET-X, a PET Insert for Simultaneous Mouse Total-Body PET/MR Imaging. <i>Molecular Imaging and Biology</i> , 2021, 23, 703-713.	1.3	14
137	Development and Performance Evaluation of a Time-of-Flight Positron Emission Tomography Detector Based on a High-Quantum-Efficiency Multi-Anode Photomultiplier Tube. <i>IEEE Transactions on Nuclear Science</i> , 2016, 63, 44-51.	1.2	13
138	Novel inter-crystal scattering event identification method for PET detectors. <i>Physics in Medicine and Biology</i> , 2018, 63, 115015.	1.6	13
139	SiPM-based dual-ended-readout DOI-TOF PET module based on mean-time method. <i>Journal of Instrumentation</i> , 2019, 14, P02023-P02023.	0.5	13
140	Voxel-Based Dosimetry of Iron Oxide Nanoparticle-Conjugated <sup>177</sup> Lu-Labeled Folic Acid Using SPECT/CT Imaging of Mice. <i>Molecular Pharmaceutics</i> , 2019, 16, 1498-1506.	2.3	13
141	Inter-crystal scattering recovery of light-sharing PET detectors using convolutional neural networks. <i>Physics in Medicine and Biology</i> , 2021, 66, 185004.	1.6	13
142	The use of healthy volunteers instead of patients to inform drug dosing studies: a [ <sup>11</sup> C]raclopride PET study. <i>Psychopharmacology</i> , 2011, 217, 515-523.	1.5	12
143	Validation of Simple Quantification Methods for <sup>18</sup> F-FP-CIT PET Using Automatic Delineation of Volumes of Interest Based on Statistical Probabilistic Anatomical Mapping and Isocontour Margin Setting. <i>Nuclear Medicine and Molecular Imaging</i> , 2012, 46, 254-260.	0.6	12
144	Quantitative positron emission tomography imaging of angiogenesis in rats with forelimb ischemia using <sup>68</sup> Ga-NOTA-c(RGDyK). <i>Angiogenesis</i> , 2013, 16, 837-846.	3.7	12

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145	Translating amyloid PET of different radiotracers by a deep generative model for interchangeability. <i>NeuroImage</i> , 2021, 232, 117890.	2.1	12
146	Fusion of coregistered cross-modality images using a temporally alternating display method. <i>Medical and Biological Engineering and Computing</i> , 2000, 38, 127-132.	1.6	11
147	CIS: A GUI-Based Software System for Monte Carlo Simulation of Compton Camera. <i>Nuclear Technology</i> , 2009, 168, 55-60.	0.7	11
148	Bipolar analog signal multiplexing for position-sensitive PET block detectors. <i>Physics in Medicine and Biology</i> , 2014, 59, 7835-7846.	1.6	11
149	Quantitative salivary gland SPECT/CT using deep convolutional neural networks. <i>Scientific Reports</i> , 2021, 11, 7842.	1.6	11
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