

Jae Sung Lee

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230
papers

6,049
citations

40
h-index

68
g-index

262
ext. papers

6,957
ext. citations

4.4
avg, IF

5.94
L-index

#	Paper	IF	Citations
230	Cross-modal plasticity and cochlear implants. <i>Nature</i> , 2001 , 409, 149-50	50.4	447
229	Increased occupancy of dopamine receptors in human striatum during cue-elicited cocaine craving. <i>Neuropsychopharmacology</i> , 2006 , 31, 2716-27	8.7	244
228	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, 1878-82	8.9	171
227	Initial results of simultaneous PET/MRI experiments with an MRI-compatible silicon photomultiplier PET scanner. <i>Journal of Nuclear Medicine</i> , 2012 , 53, 608-14	8.9	169
226	Neural correlates of clinical symptoms and cognitive dysfunctions in obsessive-compulsive disorder. <i>Psychiatry Research - Neuroimaging</i> , 2003 , 122, 37-47	2.9	149
225	Posterior cingulate cortex atrophy and regional cingulum disruption in mild cognitive impairment and Alzheimer's disease. <i>Neurobiology of Aging</i> , 2010 , 31, 772-9	5.6	140
224	Performance measurement of the microPET focus 120 scanner. <i>Journal of Nuclear Medicine</i> , 2007 , 48, 1527-35	8.9	139
223	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, 1681-91	8.8	111
222	Differences in delta- and mu-opioid receptor blockade measured by positron emission tomography in naltrexone-treated recently abstinent alcohol-dependent subjects. <i>Neuropsychopharmacology</i> , 2008 , 33, 653-65	8.7	109
221	Tumor-Associated Macrophages Enhance Tumor Hypoxia and Aerobic Glycolysis. <i>Cancer Research</i> , 2019 , 79, 795-806	10.1	109
220	Regional cerebral perfusion abnormalities in attention deficit/hyperactivity disorder. Statistical parametric mapping analysis. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2002 , 252, 219-25	5.1	100
219	Positron emission tomography (PET) detectors with depth-of- interaction (DOI) capability. <i>Biomedical Engineering Letters</i> , 2011 , 1, 70-81	3.6	98
218	Regional cerebral blood flow in children with attention deficit hyperactivity disorder: comparison before and after methylphenidate treatment. <i>Human Brain Mapping</i> , 2005 , 24, 157-64	5.9	97
217	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, 1485-9	6.7	93
216	Improving the Accuracy of Simultaneously Reconstructed Activity and Attenuation Maps Using Deep Learning. <i>Journal of Nuclear Medicine</i> , 2018 , 59, 1624-1629	8.9	92
215	Computed tomography super-resolution using deep convolutional neural network. <i>Physics in Medicine and Biology</i> , 2018 , 63, 145011	3.8	85
214	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, 572-9	8.9	77

213	Acute manganese administration alters dopamine transporter levels in the non-human primate striatum. <i>NeuroToxicology</i> , 2006 , 27, 229-36	4.4	76
212	Presynaptic Dopamine Capacity in Patients with Treatment-Resistant Schizophrenia Taking Clozapine: An [F]DOPA PET Study. <i>Neuropsychopharmacology</i> , 2017 , 42, 941-950	8.7	70
211	Generation of PET Attenuation Map for Whole-Body Time-of-Flight 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	8.9	69
210	Ictal SPECT in neocortical epilepsies: clinical usefulness and factors affecting the pattern of hyperperfusion. <i>Neuroradiology</i> , 2006 , 48, 678-84	3.2	69
209	Methylphenidate increased regional cerebral blood flow in subjects with attention deficit/hyperactivity disorder. <i>Yonsei Medical Journal</i> , 2001 , 42, 19-29	3	65
208	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	5.2	59
207	Brain single photon emission computed tomography findings in depressive pseudodementia patients. <i>Journal of Affective Disorders</i> , 2002 , 69, 159-66	6.6	58
206	Small animal imaging in drug development. <i>Current Pharmaceutical Design</i> , 2005 , 11, 3247-72	3.3	58
205	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	1.7	57
204	Development of Korean standard brain templates. <i>Journal of Korean Medical Science</i> , 2005 , 20, 483-8	4.7	57
203	Quantification of F-18 FDG PET images in temporal lobe epilepsy patients using probabilistic brain atlas. <i>NeuroImage</i> , 2001 , 14, 1-6	7.9	56
202	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, 231-42	5.1	54
201	PET evidence of neuroplasticity in adult auditory cortex of postlingual deafness. <i>Journal of Nuclear Medicine</i> , 2003 , 44, 1435-9	8.9	53
200	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, 606-16	7.9	51
199	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, 1309-15	8.9	51
198	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, 1269-82	3.8	50
197	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	1.7	49
196	Whole-body distribution and radiation dosimetry of (68)Ga-NOTA-RGD, a positron emission tomography agent for angiogenesis imaging. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2012 , 27, 65-71	3.9	46

195	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, 213-20	3.2	46
194	Disparity of perfusion and glucose metabolism of epileptogenic zones in temporal lobe epilepsy demonstrated by SPM/SPAM analysis on 15O water PET, [18F]FDG-PET, and [99mTc]-HMPAO SPECT. <i>Epilepsia</i> , 2001 , 42, 1515-22	6.4	43
193	Regional cerebral blood flow abnormalities associated with apathy and depression in Alzheimer disease. <i>Alzheimer Disease and Associated Disorders</i> , 2012 , 26, 217-24	2.5	42
192	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	2.5	41
191	Dissociation of working memory processing associated with native and second languages: PET investigation. <i>NeuroImage</i> , 2002 , 15, 879-91	7.9	41
190	Putaminal serotonergic innervation: monitoring dyskinesia risk in Parkinson disease. <i>Neurology</i> , 2015 , 85, 853-60	6.5	40
189	Evaluation of a silicon photomultiplier PET insert for simultaneous PET and MR imaging. <i>Medical Physics</i> , 2016 , 43, 72	4.4	40
188	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, 3827-41	3.8	40
187	Kinetic modeling of 3Rdeoxy-3R18F-fluorothymidine for quantitative cell proliferation imaging in subcutaneous tumor models in mice. <i>Journal of Nuclear Medicine</i> , 2008 , 49, 2057-66	8.9	40
186	SiPM-PET with a short optical fiber bundle for simultaneous PET-MR imaging. <i>Physics in Medicine and Biology</i> , 2012 , 57, 3869-83	3.8	39
185	The relationship between antipsychotic D2 occupancy and change in frontal metabolism and working memory : A dual [(11)C]raclopride and [(18) F]FDG imaging study with aripiprazole. <i>Psychopharmacology</i> , 2013 , 227, 221-9	4.7	38
184	Frontal dysfunction underlies depressive syndrome in Alzheimer disease: a FDG-PET study. <i>American Journal of Geriatric Psychiatry</i> , 2006 , 14, 625-8	6.5	38
183	Integrated whole body MR/PET: where are we?. <i>Korean Journal of Radiology</i> , 2015 , 16, 32-49	6.9	36
182	Adaptive template generation for amyloid PET using a deep learning approach. <i>Human Brain Mapping</i> , 2018 , 39, 3769-3778	5.9	35
181	Extrastriatal dopaminergic changes in Parkinson's disease patients with impulse control disorders. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2014 , 85, 23-30	5.5	35
180	Developmental hemispheric asymmetry of interregional metabolic correlation of the auditory cortex in deaf subjects. <i>NeuroImage</i> , 2003 , 19, 777-83	7.9	35
179	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, 459-65	5.2	33
178	Videostrobokymography: a new method for the quantitative analysis of vocal fold vibration. <i>Laryngoscope</i> , 1999 , 109, 1859-63	3.6	32

177	Deep-dose: a voxel dose estimation method using deep convolutional neural network for personalized internal dosimetry. <i>Scientific Reports</i> , 2019 , 9, 10308	4.9	31
176	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	1.7	31
175	Analysis of Functional Brain Images Using Population-Based Probabilistic Atlas. <i>Current Medical Imaging</i> , 2005 , 1, 81-87	1.2	30
174	Discrimination of normal aging, MCI and AD with multimodal imaging measures on the medial temporal lobe. <i>Psychiatry Research - Neuroimaging</i> , 2010 , 183, 237-43	2.9	29
173	Effect of worry on regional cerebral blood flow in nonanxious subjects. <i>Psychiatry Research - Neuroimaging</i> , 2005 , 140, 259-69	2.9	29
172	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	8.8	29
171	Measurement of Glomerular Filtration Rate using Quantitative SPECT/CT and Deep-learning-based Kidney Segmentation. <i>Scientific Reports</i> , 2019 , 9, 4223	4.9	28
170	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, 306-13	2.6	28
169	FDG-PET images quantified by probabilistic atlas of brain and surgical prognosis of temporal lobe epilepsy. <i>Epilepsia</i> , 2002 , 43, 1032-8	6.4	28
168	Different uptake of (99m)Tc-ECD and (99m)Tc-HMPAO in the same brains: analysis by statistical parametric mapping. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2001 , 28, 191-7		28
167	Rapid Hepatobiliary Excretion of Micelle-Encapsulated/Radiolabeled Upconverting Nanoparticles as an Integrated Form. <i>Scientific Reports</i> , 2015 , 5, 15685	4.9	27
166	Modeling of brain D2 receptor occupancy-plasma concentration relationships with a novel antipsychotic, YKP1358, using serial PET scans in healthy volunteers. <i>Clinical Pharmacology and Therapeutics</i> , 2007 , 81, 252-8	6.1	27
165	[11C]-(R)-PK11195 positron emission tomography in patients with complex regional pain syndrome: A pilot study. <i>Medicine (United States)</i> , 2017 , 96, e5735	1.8	26
164	Whole-brain diffusion-tensor changes in parkinsonian patients with impulse control disorders. <i>Journal of Clinical Neurology (Korea)</i> , 2015 , 11, 42-7	1.7	26
163	Concept Verification of Three-Layer DOI Detectors for Small Animal PET. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 912-917	1.7	26
162	Neural changes associated with speech learning in deaf children following cochlear implantation. <i>NeuroImage</i> , 2004 , 22, 1173-81	7.9	26
161	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	4.2	26
160	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	8.9	26

159	MRI-Based Attenuation Correction for PET/MRI Using Multiphase Level-Set Method. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 587-93	8.9	25
158	Probabilistic anatomic mapping of cerebral blood flow distribution of the middle cerebral artery. <i>Journal of Nuclear Medicine</i> , 2008 , 49, 39-43	8.9	25
157	Probabilistic map of blood flow distribution in the brain from the internal carotid artery. <i>NeuroImage</i> , 2004 , 23, 1422-31	7.9	25
156	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	3.8	24
155	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, 6495-514	3.8	24
154	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	1.2	24
153	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, 759-68	7.3	24
152	Gap compensation during PET image reconstruction by constrained, total variation minimization. <i>Medical Physics</i> , 2012 , 39, 589-602	4.4	24
151	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	1.2	24
150	Feasibility and kinetic characteristics of (68)Ga-NOTA-RGD PET for in vivo atherosclerosis imaging. <i>Annals of Nuclear Medicine</i> , 2013 , 27, 847-54	2.5	23
149	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	1.7	23
148	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, 1543-53	7.9	23
147	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, 347-55	11.7	23
146	Development of FPGA-based coincidence units with veto function. <i>Biomedical Engineering Letters</i> , 2011 , 1, 27-31	3.6	22
145	Development and applications of a software for Functional Image Registration (FIRE). <i>Computer Methods and Programs in Biomedicine</i> , 2005 , 78, 157-64	6.9	22
144	Hybrid charge division multiplexing method for silicon photomultiplier based PET detectors. <i>Physics in Medicine and Biology</i> , 2017 , 62, 4390-4405	3.8	21
143	Segmentation-based MR attenuation correction including bones also affects quantitation in brain studies: an initial result of 18F-FP-CIT PET/MR for patients with parkinsonism. <i>Journal of Nuclear Medicine</i> , 2014 , 55, 1617-22	8.9	21
142	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	1.2	21

141	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	5.1	20
140	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, 154-61	3.8	20
139	Superiority of HMPAO ictal SPECT to ECD ictal SPECT in localizing the epileptogenic zone. <i>Epilepsia</i> , 2002 , 43, 263-9	6.4	20
138	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, 273-8	3.1	20
137	Clinical Applications of Simultaneous PET/MR Imaging Using (R)-[11C]-Verapamil with Cyclosporin A: Preliminary Results on a Surrogate Marker of Drug-Resistant Epilepsy. <i>American Journal of Neuroradiology</i> , 2016 , 37, 600-6	4.4	20
136	Fully three-dimensional OSEM-based image reconstruction for Compton imaging using optimized ordering schemes. <i>Physics in Medicine and Biology</i> , 2010 , 55, 5007-27	3.8	19
135	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	8.9	18
134	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	1.2	18
133	Technical Advances in Current PET and Hybrid Imaging Systems. <i>The Open Nuclear Medicine Journal</i> , 2010 , 2, 192-208		18
132	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, 510-20	4.4	17
131	Proof-of-concept prototype time-of-flight PET system based on high-quantum-efficiency multianode PMTs. <i>Medical Physics</i> , 2017 , 44, 5314-5324	4.4	17
130	Resolution recovery reconstruction for a Compton camera. <i>Physics in Medicine and Biology</i> , 2013 , 58, 2823-40	3.8	17
129	Loss of asymmetry in D2 receptors of putamen in unaffected family members at increased genetic risk for schizophrenia. <i>Acta Psychiatrica Scandinavica</i> , 2008 , 118, 200-8	6.5	17
128	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, 607-14	8.8	17
127	Changes of 2-deoxyglucose uptake in the rat auditory pathway after bilateral ablation of the cochlea. <i>Hearing Research</i> , 2004 , 196, 33-8	3.9	17
126	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	3.8	15
125	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, 1202-7	4.5	15
124	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	3.8	14

123	The relationship between dopamine receptor blockade and cognitive performance in schizophrenia: a [C]-raclopride PET study with aripiprazole. <i>Translational Psychiatry</i> , 2018 , 8, 87	8.6	14
122	Recent advances in hybrid molecular imaging systems. <i>Seminars in Musculoskeletal Radiology</i> , 2014 , 18, 103-22	1.8	14
121	Evaluation of a fast photomultiplier tube for time-of-flight PET. <i>Biomedical Engineering Letters</i> , 2011 , 1, 174-179	3.6	14
120	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	1.2	14
119	Delay grid multiplexing: simple time-based multiplexing and readout method for silicon photomultipliers. <i>Physics in Medicine and Biology</i> , 2016 , 61, 7113-7135	3.8	14
118	Highly multiplexed SiPM signal readout for brain-dedicated TOF-DOI PET detectors. <i>Physica Medica</i> , 2019 , 68, 117-123	2.7	14
117	Generation of parametric image of regional myocardial blood flow using H(2)(15)O dynamic PET and a linear least-squares method. <i>Journal of Nuclear Medicine</i> , 2005 , 46, 1687-95	8.9	14
116	. <i>IEEE Transactions on Nuclear Science</i> , 2016 , 63, 44-51	1.7	13
115	A new image-based stroke registry containing quantitative magnetic resonance imaging data. <i>Cerebrovascular Diseases</i> , 2011 , 32, 567-76	3.2	13
114	Cross-modal and compensatory plasticity in adult deafened cats: a longitudinal PET study. <i>Brain Research</i> , 2010 , 1354, 85-90	3.7	13
113	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 Suppl 1, S69-74	4.7	13
112	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	1.9	12
111	Quantitative positron emission tomography imaging of angiogenesis in rats with forelimb ischemia using (68)Ga-NOTA-c(RGDyK). <i>Angiogenesis</i> , 2013 , 16, 837-46	10.6	12
110	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	3.8	12
109	Validation of Simple Quantification Methods for (18)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, 254-60	1.9	11
108	The use of healthy volunteers instead of patients to inform drug dosing studies: a [¹¹ C]raclopride PET study. <i>Psychopharmacology</i> , 2011 , 217, 515-23	4.7	11
107	Fusion of coregistered cross-modality images using a temporally alternating display method. <i>Medical and Biological Engineering and Computing</i> , 2000 , 38, 127-32	3.1	11
106	. <i>IEEE Transactions on Nuclear Science</i> , 2010 , 57, 1420-1425	1.7	10

105	CIS: A GUI-Based Software System for Monte Carlo Simulation of Compton Camera. <i>Nuclear Technology</i> , 2009 , 168, 55-60	1.4	10
104	Multiple linear analysis methods for the quantification of irreversibly binding radiotracers. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008 , 28, 1965-77	7.3	10
103	Taq1A polymorphism in the dopamine D2 receptor gene predicts brain metabolic response to aripiprazole in healthy male volunteers. <i>Pharmacogenetics and Genomics</i> , 2008 , 18, 91-7	1.9	10
102	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,	1.5	10
101	[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	12.1	10
100	SiPM-based dual-ended-readout DOI-TOF PET module based on mean-time method. <i>Journal of Instrumentation</i> , 2019 , 14, P02023-P02023	1	9
99	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	3.8	9
98	Self-supervised PET Denoising. <i>Nuclear Medicine and Molecular Imaging</i> , 2020 , 54, 299-304	1.9	9
97	Bipolar analog signal multiplexing for position-sensitive PET block detectors. <i>Physics in Medicine and Biology</i> , 2014 , 59, 7835-46	3.8	9
96	Experimental performance of double-scattering Compton camera with anthropomorphic phantom. <i>Journal of Instrumentation</i> , 2011 , 6, C01024-C01024	1	9
95	Feasibility of template-guided attenuation correction in cat brain PET imaging. <i>Molecular Imaging and Biology</i> , 2010 , 12, 250-8	3.8	9
94	Advances in imaging instrumentation for nuclear cardiology. <i>Journal of Nuclear Cardiology</i> , 2019 , 26, 543-556	2.1	9
93	SimPET: a Preclinical PET Insert for Simultaneous PET/MR Imaging. <i>Molecular Imaging and Biology</i> , 2020 , 22, 1208-1217	3.8	9
92	Reproducibility of the kinetic analysis of 3Rdeoxy-3R[(18)F]fluorothymidine positron emission tomography in mouse tumor models. <i>Nuclear Medicine and Biology</i> , 2009 , 36, 711-9	2.1	8
91	Changes in the Heterogeneity of Cerebral Glucose Metabolism with Healthy Aging: Quantitative Assessment by Fractal Analysis. <i>Journal of Neuroimaging</i> , 2004 , 14, 350-356	2.8	8
90	Deep learning-Based 3D inpainting of brain MR images. <i>Scientific Reports</i> , 2021 , 11, 1673	4.9	8
89	Comparative assessment of parametric neuroreceptor mapping approaches based on the simplified reference tissue model using [¹¹ C]ABP688 PET. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 2098-108	7.3	7
88	Assessment of MR-compatibility of SiPM PET insert using short optical fiber bundles for small animal research. <i>Journal of Instrumentation</i> , 2015 , 10, P12008-P12008	1	7

87	Recent advances in parametric neuroreceptor mapping with dynamic PET: basic concepts and graphical analyses. <i>Neuroscience Bulletin</i> , 2014 , 30, 733-54	4.3	7
86	Calculating occupancy when one does not have baseline: a comparison of different options. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 1760-7	7.3	7
85	Positron emission tomography during transcranial magnetic stimulation does not require mu-metal shielding. <i>NeuroImage</i> , 2003 , 19, 1812-9	7.9	7
84	Investigation of Solid-State Photomultipliers for Positron Emission Tomography Scanners. <i>Journal of the Korean Physical Society</i> , 2007 , 50, 1332	0.6	7
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82	Frontostriatal functional connectivity and striatal dopamine synthesis capacity in schizophrenia in terms of antipsychotic responsiveness: an [F]DOPA PET and fMRI study. <i>Psychological Medicine</i> , 2019 , 49, 2533-2542	6.9	7
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