

# Kjell Erlandsson

## List of Publications by Year in descending order

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54  
papers

1,097  
citations

686830

13  
h-index

552369

26  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1523  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of partial volume correction techniques for emission tomography and their applications in neurology, cardiology and oncology. <i>Physics in Medicine and Biology</i> , 2012, 57, R119-R159.	1.6	381
2	Performance evaluation of D-SPECT: a novel SPECT system for nuclear cardiology. <i>Physics in Medicine and Biology</i> , 2009, 54, 2635-2649.	1.6	205
3	Advances in clinical molecular imaging instrumentation. <i>Clinical and Translational Imaging</i> , 2018, 6, 31-45.	1.1	53
4	Measuring SSRI occupancy of SERT using the novel tracer [123I]ADAM: a SPECT validation study. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2005, 32, 1329-1336.	3.3	51
5	Development of clinical simultaneous SPECT/MRI. <i>British Journal of Radiology</i> , 2018, 91, 20160690.	1.0	51
6	Estimation of an image derived input function with MR-defined carotid arteries in FDG-PET human studies using a novel partial volume correction method. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 1398-1409.	2.4	48
7	NiftyPET: a High-throughput Software Platform for High Quantitative Accuracy and Precision PET Imaging and Analysis. <i>Neuroinformatics</i> , 2018, 16, 95-115.	1.5	40
8	MR Imaging-guided Partial Volume Correction of PET Data in PET/MR Imaging. <i>PET Clinics</i> , 2016, 11, 161-177.	1.5	32
9	Analysis of D2 dopamine receptor occupancy with quantitative SPET using the high-affinity ligand [123I]epidepride: resolving conflicting findings. <i>NeuroImage</i> , 2003, 19, 1205-1214.	2.1	31
10	GPU accelerated rotation-based emission tomography reconstruction. , 2010, , .		26
11	Collimator Design for a Brain SPECT/MRI Insert. <i>IEEE Transactions on Nuclear Science</i> , 2015, 62, 1716-1724.	1.2	20
12	Development of Fluorine-18 Labeled Metabolically Activated Tracers for Imaging of Drug Efflux Transporters with Positron Emission Tomography. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 6058-6080.	2.9	18
13	Validation of a combined image derived input function and venous sampling approach for the quantification of [18F]GE-179 PET binding in the brain. <i>NeuroImage</i> , 2021, 237, 118194.	2.1	17
14	Clinical SiPM-Based MRI-Compatible SPECT: Preliminary Characterization. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2020, 4, 371-377.	2.7	15
15	Validation and Performance Assessment of a Preclinical SiPM-Based SPECT/MRI Insert. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019, 3, 483-490.	2.7	13
16	Consensus Recommendations on the Use of 18F-FDG PET/CT in Lung Disease. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1701-1707.	2.8	8
17	Partial volume correction in SPECT using anatomical information and iterative FBP. <i>Tsinghua Science and Technology</i> , 2010, 15, 50-55.	4.1	7
18	Incorporation of MRI-AIF information for improved kinetic modelling of dynamic PET data. <i>EJNMMI Physics</i> , 2014, 1, A43.	1.3	7

#	ARTICLE	IF	CITATIONS
19	Development of a Practical Calibration Procedure for a Clinical SPECT/MRI System Using a Single INSERT Prototype Detector and Multimini Slit-Slat Collimator. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 380-386.	2.7	7
20	Modelling the impact of injection time on the bolus shapes in PET-MRI AIF Conversion. EJNMMI Physics, 2014, 1, A54.	1.3	6
21	Measurement of hypoxia in the lung in IPF: an F-MISO PET CT study. European Respiratory Journal, 2021, 58, 2004584.	3.1	6
22	Estimation of random coincidences from the prompt PET data. , 0, , .		5
23	First results of the HICAM anger camera. , 2009, , .		4
24	Incorporation of MRI-AIF Information For Improved Kinetic Modelling of Dynamic PET Data. IEEE Transactions on Nuclear Science, 2015, 62, 612-618.	1.2	4
25	A comparison of the options for brain partial volume correction using PET/MRI. , 2012, , .		3
26	Reduction of CT artifacts due to respiratory motion in a slowly rotating SPECT/CT. , 2008, , .		2
27	Point spread function optimization in SPECT. , 2010, , .		2
28	Evaluation of an OSEM-based PVC method for SPECT with clinical data. , 2010, , .		2
29	Assessing possible use of CZT technology for application to brain SPECT. , 2011, , .		2
30	Monotonic algorithm for joint entropy-based anatomical priors in parametric PET image reconstruction. , 2012, , .		2
31	Variance prediction in SPECT reconstruction based on the Fisher information using a novel angular blurring algorithm for computation of the system matrix. , 2013, , .		2
32	Design optimization and evaluation of a human brain SPECT-MRI insert based on high-resolution detectors and slit-slat collimators. , 2013, , .		2
33	Collimator design for a clinical brain SPECT/MRI insert. EJNMMI Physics, 2014, 1, A21.	1.3	2
34	4-D PET joint image reconstruction/non-rigid motion estimation with limited MRI prior information. EJNMMI Physics, 2014, 1, A27.	1.3	2
35	Exploiting an MRI derived arterial input function to improve the PET simultaneous estimation method: Validation of assumptions. , 2014, , .		2
36	Improved parameter-estimation with combined PET-MRI kinetic modelling. EJNMMI Physics, 2015, 2, A25.	1.3	2

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37	Effects of the collimator magnification factor in the geometrical calibration of SPECT systems. , 2016, , .		2
38	Improved Parameter-Estimation With MRI-Constrained PET Kinetic Modeling: A Simulation Study. IEEE Transactions on Nuclear Science, 2016, 63, 2464-2470.	1.2	2
39	INSERT: A Novel Clinical Scanner for Simultaneous SPECT/MRI Brain Studies. , 2017, , .		2
40	Motion-corrected reconstruction of parametric images from dynamic PET data with the Synergistic Image Reconstruction Framework (SIRF). , 2018, , .		2
41	Acquisition Correction and Reconstruction for a Clinical SPECT/MRI Insert. , 2019, , .		2
42	Optimisation of source geometry for flood images to be used for nonuniformity corrections on large area detectors. , 0, , .		1
43	Improved reconstructed image quality in a SPECT system with slit-slat collimation by combination of multiplexed and non-multiplexed data. , 2008, , .		1
44	Shielding requirements of a SPECT insert for installation in a PET/MRI system. , 2015, , .		1
45	Establishment of an open database of realistic simulated data for evaluation of partial volume correction techniques in brain PET/MR. EJNMMI Physics, 2015, 2, A44.	1.3	1
46	A novel approach to image reconstruction and calibration for a multi-slit-slat SPECT system. , 2016, , .		1
47	A SiPM-Based Clinical MRI-Compatible SPECT Insert. , 2019, , .		1
48	Respiratory Motion Correction in Dynamic PET with a Single Attenuation Map. , 2019, , .		1
49	Improved estimation of metabolite rate constants for [ <sup>123</sup> I]Epidepride by simultaneous modelling. , 0, , .		0
50	Evaluation of the novel 3D SPECT modelling algorithm in the STIR reconstruction framework: Simple vs. full attenuation correction. , 2013, , .		0
51	[ <sup>123</sup> I]TPCNE: A novel SPET tracer for the sigma-1 receptor is displaceable in humans in vivo with low dose oral haloperidol. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S656-S656.	2.4	0
52	[ <sup>123</sup> I]TPCNE: A novel SPET tracer for the sigma-1 receptor binds irreversibly in humans in vivo. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S655-S655.	2.4	0
53	DOI Estimation for a Clinical MRI-Compatible SPECT Insert. , 2020, , .		0
54	Response to Bellaye et al. Measurement of hypoxia in the lung in idiopathic pulmonary fibrosis: a matter of control. European Respiratory Journal, 2022, , 2103124.	3.1	0