Arman Rahmim

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/7171625/arman-rahmim-publications-by-year.pdf
Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

187 papers	5,252 citations	34 h-index	68 g-index
225 ext. papers	7,192 ext. citations	4.2 avg, IF	5.97 L-index

#	Paper	IF	Citations
187	Quantitative evaluation of PSMA PET imaging using a realistic anthropomorphic phantom and shell-less radioactive epoxy lesions.. *EJNMMI Physics*, **2022**, 9, 2	4.4	0
186	Trustworthy Artificial Intelligence in Medical Imaging. *PET Clinics*, **2022**, 17, 1-12	2.2	4
185	Artificial Intelligence in Medical Imaging and its Impact on the Rare Disease Community: Threats, Challenges and Opportunities. *PET Clinics*, **2022**, 17, 13-29	2.2	2
184	Clinical Application of Artificial Intelligence in Positron Emission Tomography: Imaging of Prostate Cancer. *PET Clinics*, **2022**, 17, 137-143	2.2	1
183	AI-Based Detection, Classification and Prediction/Prognosis in Medical Imaging:: Towards Radiophenomics. *PET Clinics*, **2022**, 17, 183-212	2.2	6
182	Artificial Intelligence in Lymphoma PET Imaging:: A Scoping Review (Current Trends and Future Directions). *PET Clinics*, **2022**, 17, 145-174	2.2	3
181	Implications of physics, chemistry and biology for dosimetry calculations using theranostic pairs.. *Theranostics*, **2022**, 12, 232-259	12.1	0
180	Impact of feature harmonization on radiogenomics analysis: Prediction of EGFR and KRAS mutations from non-small cell lung cancer PET/CT images.. *Computers in Biology and Medicine*, **2022**, 142, 105230	7	3
179	Longitudinal clustering analysis and prediction of Parkinson's disease progression using radiomics and hybrid machine learning.. *Quantitative Imaging in Medicine and Surgery*, **2022**, 12, 906-919	3.6	0
178	Advanced Automatic Segmentation of Tumors and Survival Prediction in Head and Neck Cancer. *Lecture Notes in Computer Science*, **2022**, 202-210	0.9	4
177	Segmentation and Risk Score Prediction of Head and Neck Cancers in PET/CT Volumes with 3D U-Net and Cox Proportional Hazard Neural Networks. *Lecture Notes in Computer Science*, **2022**, 236-247	0.9	
176	Testing the Ability of Convolutional Neural Networks to Learn Radiomic Features.. *Computer Methods and Programs in Biomedicine*, **2022**, 219, 106750	6.9	0
175	COVID-19 prognostic modeling using CT radiomic features and machine learning algorithms: Analysis of a multi-institutional dataset of 14,339 patients.. *Computers in Biology and Medicine*, **2022**, 145, 105467	7	1
174	Modeling the efficacy of different anti-angiogenic drugs on treatment of solid tumors using 3D computational modeling and machine learning.. *Computers in Biology and Medicine*, **2022**, 146, 105511	7	1
173	A spatiotemporal multi-scale computational model for FDG PET imaging at different stages of tumor growth and angiogenesis. *Scientific Reports*, **2022**, 12,	4.9	5
172	Harmonization of nomenclature for molecular imaging metrics of tumour burden: molecular tumour volume (MTV), total lesion activity (TLA) and total lesion fraction (TLF). *European Journal of Nuclear Medicine and Molecular Imaging*, **2021**, 1	8.8	0
171	Computational modeling of PET tracer distribution in solid tumors integrating microvasculature. *BMC Biotechnology*, **2021**, 21, 67	3.5	3

170	Head and neck tumor segmentation in PET/CT: The HECKTOR challenge.. *Medical Image Analysis*, **2021**, 77, 102336	15.4	50
169	Mars Shot for Nuclear Medicine, Molecular Imaging, and Molecularly Targeted Radiopharmaceutical Therapy. *Journal of Nuclear Medicine*, **2021**, 62, 6-14	8.9	3
168	Feasibility of Single-Time-Point Dosimetry for Radiopharmaceutical Therapies. *Journal of Nuclear Medicine*, **2021**, 62, 1006-1011	8.9	7
167	Dynamic PET image reconstruction utilizing intrinsic data-driven HYPR4D denoising kernel. *Medical Physics*, **2021**, 48, 2230-2244	4.4	3
166	Machine learning-based prognostic modeling using clinical data and quantitative radiomic features from chest CT images in COVID-19 patients. *Computers in Biology and Medicine*, **2021**, 132, 104304	7	37
165	Improved motor outcome prediction in Parkinson's disease applying deep learning to DaTscan SPECT images. *Computers in Biology and Medicine*, **2021**, 132, 104312	7	3
164	Enhanced Drug Delivery to Solid Tumors via Drug-Loaded Nanocarriers: An Image-Based Computational Framework. *Frontiers in Oncology*, **2021**, 11, 655781	5.3	17
163	Design of an anthropomorphic PET phantom with elastic lungs and respiration modeling. *Medical Physics*, **2021**, 48, 4205-4217	4.4	0
162	Reply to Letter to Editor RE: "Integration of PET/CT Radiomics and Semantic Features for Differentiation Between Active Pulmonary Tuberculosis and Lung Cancer". *Molecular Imaging and Biology*, **2021**, 23, 975-977	3.8	
161	Integration of PET/CT Radiomics and Semantic Features for Differentiation between Active Pulmonary Tuberculosis and Lung Cancer. *Molecular Imaging and Biology*, **2021**, 23, 287-298	3.8	18
160	Robust identification of Parkinson's disease subtypes using radiomics and hybrid machine learning. *Computers in Biology and Medicine*, **2021**, 129, 104142	7	10
159	GAN-Based Bi-Modal Segmentation Using Mumford-Shah Loss: Application to Head and Neck Tumors in PET-CT Images. *Lecture Notes in Computer Science*, **2021**, 99-108	0.9	5
158	Feature selection and machine learning methods for optimal identification and prediction of subtypes in Parkinson's disease. *Computer Methods and Programs in Biomedicine*, **2021**, 206, 106131	6.9	8
157	Multi-level multi-modality (PET and CT) fusion radiomics: prognostic modeling for non-small cell lung carcinoma. *Physics in Medicine and Biology*, **2021**, 66,	3.8	6
156	Voxel-based partial volume correction of PET images via subtle MRI guided non-local means regularization. *Physica Medica*, **2021**, 89, 129-139	2.7	1
155	Artificial intelligence-driven assessment of radiological images for COVID-19. *Computers in Biology and Medicine*, **2021**, 136, 104665	7	7
154	Objective Task-Based Evaluation of Artificial Intelligence-Based Medical Imaging Methods:: Framework, Strategies, and Role of the Physician. *PET Clinics*, **2021**, 16, 493-511	2.2	1
153	Artificial Intelligence in PET: An Industry Perspective. *PET Clinics*, **2021**, 16, 483-492	2.2	0

152	Radiomics in PET Imaging:: A Practical Guide for Newcomers. *PET Clinics*, **2021**, 16, 597-612	2.2	8
151	Role of Artificial Intelligence in Theranostics:: Toward Routine Personalized Radiopharmaceutical Therapies. *PET Clinics*, **2021**, 16, 627-641	2.2	2
150	Toward High-Throughput Artificial Intelligence-Based Segmentation in Oncological PET Imaging. *PET Clinics*, **2021**, 16, 577-596	2.2	4
149	A Brief History of AI: How to Prevent Another Winter (A Critical Review). *PET Clinics*, **2021**, 16, 449-469	2.2	6
148	Deep-JASC: joint attenuation and scatter correction in whole-body F-FDG PET using a deep residual network. *European Journal of Nuclear Medicine and Molecular Imaging*, **2020**, 47, 2533-2548	8.8	35
147	Next-Generation Radiogenomics Sequencing for Prediction of EGFR and KRAS Mutation Status in NSCLC Patients Using Multimodal Imaging and Machine Learning Algorithms. *Molecular Imaging and Biology*, **2020**, 22, 1132-1148	3.8	54
146	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. *Radiology*, **2020**, 295, 328-338	20.5	734
145	A physics-guided modular deep-learning based automated framework for tumor segmentation in PET. *Physics in Medicine and Biology*, **2020**, 65, 245032	3.8	16
144	Repeatability of radiomic features in magnetic resonance imaging of glioblastoma: Test-retest and image registration analyses. *Medical Physics*, **2020**, 47, 4265-4280	4.4	22
143	Transcranial photoacoustic imaging of NMDA-evoked focal circuit dynamics in the rat hippocampus. *Journal of Neural Engineering*, **2020**, 17, 025001	5	10
142	Evaluation of inverse methods for estimation of mechanical parameters in solid tumors. *Biomedical Physics and Engineering Express*, **2020**, 6, 035027	1.5	7
141	Computationally Efficient System Matrix Calculation Techniques in Computed Tomography Iterative Reconstruction. *Journal of Medical Signals and Sensors*, **2020**, 10, 1-11	1	
140	Impact of image reconstruction method on dose distributions derived fromY PET images: phantom and liver radioembolization patient studies. *Physics in Medicine and Biology*, **2020**,	3.8	2
139	The impact of iterative reconstruction protocol, signal-to-background ratio and background activity on measurement of PET spatial resolution. *Japanese Journal of Radiology*, **2020**, 38, 231-239	2.9	1
138	Machine learning methods for optimal prediction of motor outcome in Parkinson's disease. *Physica Medica*, **2020**, 69, 233-240	2.7	17
137	Multi-Level Multi-Modality Fusion Radiomics: Application to PET and CT Imaging for Prognostication of Head and Neck Cancer. *IEEE Journal of Biomedical and Health Informatics*, **2020**, 24, 2268-2277	7.2	24
136	PET Parametric Imaging: Past, Present, and Future. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2020**, 4, 663-675	4.2	15
135	Short-duration dynamic FDG PET imaging: Optimization and clinical application. *Physica Medica*, **2020**, 80, 193-200	2.7	5

134	A theranostic approach based on radiolabeled antiviral drugs, antibodies and CRISPR-associated proteins for early detection and treatment of SARS-CoV-2 disease. *Nuclear Medicine Communications*, **2020**, 41, 837-840	1.6	4
133	Machine Learning Methods for Optimal Radiomics-Based Differentiation Between Recurrence and Inflammation: Application to Nasopharyngeal Carcinoma Post-therapy PET/CT Images. *Molecular Imaging and Biology*, **2020**, 22, 730-738	3.8	28
132	Transcranial Recording of Electrophysiological Neural Activity in the Rodent Brain Using Functional Photoacoustic Imaging of Near-Infrared Voltage-Sensitive Dye. *Frontiers in Neuroscience*, **2019**, 13, 579	5.1	24
131	Economic sanctions are against basic human rights on health. *European Journal of Nuclear Medicine and Molecular Imaging*, **2019**, 46, 1046-1047	8.8	1
130	Radiomics Analysis of PET and CT Components of PET/CT Imaging Integrated with Clinical Parameters: Application to Prognosis for Nasopharyngeal Carcinoma. *Molecular Imaging and Biology*, **2019**, 21, 954-964	3.8	41
129	Direct attenuation correction of brain PET images using only emission data via a deep convolutional encoder-decoder (Deep-DAC). *European Radiology*, **2019**, 29, 6867-6879	8	33
128	Artificial Neural Network-Based Prediction of Outcome in Parkinson's Disease Patients Using DaTscan SPECT Imaging Features. *Molecular Imaging and Biology*, **2019**, 21, 1165-1173	3.8	15
127	Prognostic modeling for patients with colorectal liver metastases incorporating FDG PET radiomic features. *European Journal of Radiology*, **2019**, 113, 101-109	4.7	27
126	Use of Generative Disease Models for Analysis and Selection of Radiomic Features in PET. *IEEE Transactions on Radiation and Plasma Medical Sciences*, **2019**, 3, 178-191	4.2	9
125	Imager-4D: New Software for Viewing Dynamic PET Scans and Extracting Radiomic Parameters from PET Data. *Journal of Digital Imaging*, **2019**, 32, 1071-1080	5.3	4
124	Optimized machine learning methods for prediction of cognitive outcome in Parkinson's disease. *Computers in Biology and Medicine*, **2019**, 111, 103347	7	19
123	Joint compensation of motion and partial volume effects by iterative deconvolution incorporating wavelet-based denoising in oncologic PET/CT imaging. *Physica Medica*, **2019**, 68, 52-60	2.7	2
122	Dynamic whole-body PET imaging: principles, potentials and applications. *European Journal of Nuclear Medicine and Molecular Imaging*, **2019**, 46, 501-518	8.8	62
121	Impact of image reconstruction methods on quantitative accuracy and variability of FDG-PET volumetric and textural measures in solid tumors. *European Radiology*, **2019**, 29, 2146-2156	8	8
120	Robustness versus disease differentiation when varying parameter settings in radiomics features: application to nasopharyngeal PET/CT. *European Radiology*, **2018**, 28, 3245-3254	8	43
119	Incorporating reflection boundary conditions in the Neumann series radiative transport equation: application to photon propagation and reconstruction in diffuse optical imaging. *Biomedical Optics Express*, **2018**, 9, 1389-1407	3.5	2
118	Image reconstruction in fluorescence molecular tomography with sparsity-initialized maximum-likelihood expectation maximization. *Biomedical Optics Express*, **2018**, 9, 3106-3121	3.5	4
117	Cardiac contraction motion compensation in gated myocardial perfusion SPECT: A comparative study. *Physica Medica*, **2018**, 49, 77-82	2.7	3

116	Measuring PET Spatial Resolution Using a Cylinder Phantom Positioned at an Oblique Angle. *Journal of Nuclear Medicine*, **2018**, 59, 1768-1775	8.9	8
115	Enhancement of dynamic myocardial perfusion PET images based on low-rank plus sparse decomposition. *Computer Methods and Programs in Biomedicine*, **2018**, 154, 57-69	6.9	1
114	Prediction of outcome in Parkinson disease patients from DAT SPECT images using a convolutional neural network **2018**,		2
113	Data-driven, voxel-based analysis of brain PET images: Application of PCA and LASSO methods to visualize and quantify patterns of neurodegeneration. *PLoS ONE*, **2018**, 13, e0206607	3.7	8
112	Recovery of missing data in partial geometry PET scanners: Compensation in projection space vs image space. *Medical Physics*, **2018**, 45, 5437-5449	4.4	3
111	A three-step reconstruction method for fluorescence molecular tomography based on compressive sensing. *Proceedings of SPIE*, **2017**, 10059,	1.7	4
110	Practical no-gold-standard evaluation framework for quantitative imaging methods: application to lesion segmentation in positron emission tomography. *Journal of Medical Imaging*, **2017**, 4, 011011	2.6	6
109	Enhancing ejection fraction measurement through 4D respiratory motion compensation in cardiac PET imaging. *Physics in Medicine and Biology*, **2017**, 62, 4496-4513	3.8	2
108	Association Between Midlife Vascular Risk Factors and Estimated Brain Amyloid Deposition. *JAMA - Journal of the American Medical Association*, **2017**, 317, 1443-1450	27.4	299
107	Value of Intratumoral Metabolic Heterogeneity and Quantitative 18F-FDG PET/CT Parameters to Predict Prognosis in Patients With HPV-Positive Primary Oropharyngeal Squamous Cell Carcinoma. *Clinical Nuclear Medicine*, **2017**, 42, e227-e234	1.7	25
106	Listening to membrane potential: photoacoustic voltage-sensitive dye recording. *Journal of Biomedical Optics*, **2017**, 22, 45006	3.5	24
105	Implementation of absolute quantification in small-animal SPECT imaging: Phantom and animal studies. *Journal of Applied Clinical Medical Physics*, **2017**, 18, 215-223	2.3	11
104	Linking dopaminergic reward signals to the development of attentional bias: A positron emission tomographic study. *NeuroImage*, **2017**, 157, 27-33	7.9	34
103	The impact of image reconstruction settings on 18F-FDG PET radiomic features: multi-scanner phantom and patient studies. *European Radiology*, **2017**, 27, 4498-4509	8	102
102	A radiative transfer equation-based image-reconstruction method incorporating boundary conditions for diffuse optical imaging. *Proceedings of SPIE*, **2017**, 10137,	1.7	2
101	Generalized PSF modeling for optimized quantitation in PET imaging. *Physics in Medicine and Biology*, **2017**, 62, 5149-5179	3.8	13
100	Spatiotemporal distribution modeling of PET tracer uptake in solid tumors. *Annals of Nuclear Medicine*, **2017**, 31, 109-124	2.5	21
99	Low-dose 90Y PET/CT imaging optimized for lesion detectability and quantitative accuracy: a phantom study to assess the feasibility of pretherapy imaging to plan the therapeutic dose. *Nuclear Medicine Communications*, **2017**, 38, 985-997	1.6	2

98	Improved scatter correction with factor analysis for planar and SPECT imaging. *Review of Scientific Instruments*, **2017**, 88, 094303	1.7	5
97	Improved prediction of outcome in Parkinson's disease using radiomics analysis of longitudinal DAT SPECT images. *NeuroImage: Clinical*, **2017**, 16, 539-544	5.3	49
96	Quantification and reduction of respiratory induced artifacts in positron emission tomography/computed tomography using the time-of-flight technique. *Nuclear Medicine Communications*, **2017**, 38, 948-955	1.6	3
95	MRI-assisted dual motion correction for myocardial perfusion defect detection in PET imaging. *Medical Physics*, **2017**, 44, 4536-4547	4.4	11
94	A Novel Framework for Automated Segmentation and Labeling of Homogeneous Versus Heterogeneous Lung Tumors in [F]FDG-PET Imaging. *Molecular Imaging and Biology*, **2017**, 19, 456-468	3.8	8
93	Development and Evaluation of Image Reconstruction Algorithms for a Novel Desktop SPECT System. *Asia Oceania Journal of Nuclear Medicine and Biology*, **2017**, 5, 120-133	0.7	1
92	Learning Mechanisms Underlying Value-Driven Attention. *Journal of Vision*, **2017**, 17, 1101	0.4	
91	Blood flow and endothelial cell phenotype regulation during sprouting angiogenesis. *Medical and Biological Engineering and Computing*, **2016**, 54, 547-58	3.1	12
90	18F-FDG-PET/CT therapy assessment of locally advanced pancreatic adenocarcinoma: impact on management and utilization of quantitative parameters for patient survival prediction. *Nuclear Medicine Communications*, **2016**, 37, 231-8	1.6	22
89	Ultrasound Tomosynthesis: A New Paradigm for Quantitative Imaging of the Prostate. *Lecture Notes in Computer Science*, **2016**, 577-584	0.9	
88	Impact of point spread function reconstruction on quantitative 18F-FDG-PET/CT imaging parameters and inter-reader reproducibility in solid tumors. *Nuclear Medicine Communications*, **2016**, 37, 288-96	1.6	9
87	Robustness of Radiomic Features in [C]Choline and [F]FDG PET/CT Imaging of Nasopharyngeal Carcinoma: Impact of Segmentation and Discretization. *Molecular Imaging and Biology*, **2016**, 18, 935-945	3.8	75
86	Therapy Response Assessment and Patient Outcomes in Head and Neck Squamous Cell Carcinoma: FDG PET Hopkins Criteria Versus Residual Neck Node Size and Morphologic Features. *American Journal of Roentgenology*, **2016**, 207, 641-7	5.4	21
85	A novel metric for quantification of homogeneous and heterogeneous tumors in PET for enhanced clinical outcome prediction. *Physics in Medicine and Biology*, **2016**, 61, 227-42	3.8	13
84	The Role of Dopamine in Value-Based Attentional Orienting. *Current Biology*, **2016**, 26, 550-5	6.3	78
83	Incorporating Boundary Conditions in the Integral Form of the Radiative Transfer Equation for Transcranial Imaging **2016**,		3
82	Combined fuzzy logic and random walker algorithm for PET image tumor delineation. *Nuclear Medicine Communications*, **2016**, 37, 171-81	1.6	4
81	Design and assessment of a novel SPECT system for desktop open-gantry imaging of small animals: A simulation study. *Medical Physics*, **2016**, 43, 2581	4.4	6

80	Whole-body direct 4D parametric PET imaging employing nested generalized Patlak expectation-maximization reconstruction. *Physics in Medicine and Biology*, **2016**, 61, 5456-85	3.8	54
79	Image reconstruction for robot assisted ultrasound tomography **2016**,		1
78	Application of texture analysis to DAT SPECT imaging: Relationship to clinical assessments. *NeuroImage: Clinical*, **2016**, 12, e1-e9	5.3	45
77	The ARIC-PET amyloid imaging study: Brain amyloid differences by age, race, sex, and APOE. *Neurology*, **2016**, 87, 473-80	6.5	81
76	Quantitative myocardial perfusion PET parametric imaging at the voxel-level. *Physics in Medicine and Biology*, **2015**, 60, 6013-37	3.8	12
75	Anatomy-guided brain PET imaging incorporating a joint prior model. *Physics in Medicine and Biology*, **2015**, 60, 2145-66	3.8	13
74	Clinical evaluation of direct 4D whole-body PET parametric imaging with time-of-flight and resolution modeling capabilities **2015**,		2
73	Generalized whole-body Patlak parametric imaging for enhanced quantification in clinical PET. *Physics in Medicine and Biology*, **2015**, 60, 8643-73	3.8	45
72	Fluorodeoxyglucose positron emission tomography/computerized tomography in differentiated thyroid cancer management: Importance of clinical justification and value in predicting survival. *Journal of Medical Imaging and Radiation Oncology*, **2015**, 59, 281-8	1.7	13
71	The Vital Role of Blood Flow-Induced Proliferation and Migration in Capillary Network Formation in a Multiscale Model of Angiogenesis. *PLoS ONE*, **2015**, 10, e0128878	3.7	24
70	Anatomy assisted PET image reconstruction incorporating multi-resolution joint entropy. *Physics in Medicine and Biology*, **2015**, 60, 31-48	3.8	27
69	Design and development of a high resolution animal SPECT scanner dedicated for rat and mouse imaging. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2014**, 741, 169-176	1.2	23
68	Resolution-recovery-embedded image reconstruction for a high-resolution animal SPECT system. *Physica Medica*, **2014**, 30, 774-81	2.7	10
67	Advanced kinetic modelling strategies: towards adoption in clinical PET imaging. *Clinical and Translational Imaging*, **2014**, 2, 219-237	2	37
66	Derivation of attenuation map for attenuation correction of PET data in the presence of nanoparticulate contrast agents using spectral CT imaging. *Annals of Nuclear Medicine*, **2014**, 28, 559-70	2.5	2
65	Towards quantitative myocardial perfusion PET in the clinic. *Journal of the American College of Radiology*, **2014**, 11, 429-32	3.5	7
64	Impact of acquisition time-window on clinical whole-body PET parametric imaging **2014**,		15
63	Introducing time-of-flight and resolution recovery image reconstruction to clinical whole-body PET parametric imaging **2014**,		10

62	Dynamic PET denoising incorporating a composite image guided filter **2014**,		6
61	Texture and shape analysis on high and low spatial resolution emission images **2014**,		5
60	**2014**,		2
59	Towards continualized task-based resolution modeling in PET imaging **2014**,		1
58	Whole-body PET parametric imaging employing direct 4D nested reconstruction and a generalized non-linear Patlak model **2014**,		3
57	Parametric myocardial perfusion PET imaging using physiological clustering **2014**,		2
56	Initial human experience with Rubidium-82 renal PET/CT imaging. *Journal of Medical Imaging and Radiation Oncology*, **2014**, 58, 25-31	1.7	16
55	Respiratory-induced errors in tumor quantification and delineation in CT attenuation-corrected PET images: effects of tumor size, tumor location, and respiratory trace: a simulation study using the 4D XCAT phantom. *Molecular Imaging and Biology*, **2013**, 15, 655-65	3.8	23
54	A novel non-linear recursive filter design for extracting high rate pulse features in nuclear medicine imaging and spectroscopy. *Medical Engineering and Physics*, **2013**, 35, 754-64	2.4	7
53	3D Prior Image Constrained Projection Completion for X-ray CT Metal Artifact Reduction. *IEEE Transactions on Nuclear Science*, **2013**, 60, 3318-3332	1.7	20
52	Noise propagation in resolution modeled PET imaging and its impact on detectability. *Physics in Medicine and Biology*, **2013**, 58, 6945-68	3.8	42
51	Four-Dimensional Image Reconstruction Strategies in Cardiac-Gated and Respiratory-Gated PET Imaging. *PET Clinics*, **2013**, 8, 51-67	2.2	32
50	Smoothly clipped absolute deviation (SCAD) regularization for compressed sensing MRI using an augmented Lagrangian scheme. *Magnetic Resonance Imaging*, **2013**, 31, 1399-411	3.3	9
49	Resolution modeling in PET imaging: theory, practice, benefits, and pitfalls. *Medical Physics*, **2013**, 40, 064301	4.4	217
48	Dynamic whole-body PET parametric imaging: II. Task-oriented statistical estimation. *Physics in Medicine and Biology*, **2013**, 58, 7419-45	3.8	56
47	Dynamic whole-body PET parametric imaging: I. Concept, acquisition protocol optimization and clinical application. *Physics in Medicine and Biology*, **2013**, 58, 7391-418	3.8	109
46	MRI guided myocardial perfusion PET image reconstruction **2013**,		1
45	Quantitative whole-body parametric PET imaging incorporating a generalized Patlak model **2013**,		1

44	Point/counterpoint. Resolution modeling enhances PET imaging. *Medical Physics*, **2013**, 40, 120601	4.4	18
43	Resolution modeling in PET imaging: Theory, practice, benefits, and pitfalls **2013**, 40, 064301		1
42	3.5D dynamic PET image reconstruction incorporating kinetics-based clusters. *Physics in Medicine and Biology*, **2012**, 57, 5035-55	3.8	26
41	Direct 4D parametric imaging for linearized models of reversibly binding PET tracers using generalized AB-EM reconstruction. *Physics in Medicine and Biology*, **2012**, 57, 733-55	3.8	30
40	Enhanced whole-body PET parametric imaging using hybrid regression and thresholding driven by kinetic correlations **2012**,		4
39	MRI assisted motion correction in dual-gated 5D myocardial perfusion PET imaging **2012**,		3
38	Generalized dynamic PET inter-frame and intra-frame motion correction - Phantom and human validation studies **2012**,		7
37	Comparative assessment of energy-mapping approaches in CT-based attenuation correction for PET. *Molecular Imaging and Biology*, **2011**, 13, 187-98	3.8	23
36	Is metal artefact reduction mandatory in cardiac PET/CT imaging in the presence of pacemaker and implantable cardioverter defibrillator leads?. *European Journal of Nuclear Medicine and Molecular Imaging*, **2011**, 38, 252-62	8.8	20
35	Quantitative study of cardiac motion estimation and abnormality classification in emission computed tomography. *Medical Engineering and Physics*, **2011**, 33, 563-72	2.4	8
34	Dynamic Multi-Bed FDG PET imaging: Feasibility and optimization **2011**,		17
33	Generalized inter-frame and intra-frame motion correction in PET imaging - a simulation study **2011** ,		5
32	Direct 4D reconstruction of parametric images incorporating anato-functional joint entropy. *Physics in Medicine and Biology*, **2010**, 55, 4261-72	3.8	39
31	4D respiratory motion-corrected Rb-82 myocardial perfusion PET image reconstruction **2010**,		8
30	Simultaneous measurement of noise and spatial resolution in PET phantom images. *Physics in Medicine and Biology*, **2010**, 55, 1069-81	3.8	22
29	Quantification of cerebral cannabinoid receptors subtype 1 (CB1) in healthy subjects and schizophrenia by the novel PET radioligand [11C]OMAR. *NeuroImage*, **2010**, 52, 1505-13	7.9	163
28	A Scatter Calibration Technique for Dynamic Brain Imaging in High Resolution PET. *IEEE Transactions on Nuclear Science*, **2010**, 57, 225-233	1.7	10
27	Coronary calcium score scan-based attenuation correction in cardiovascular PET imaging. *Nuclear Medicine Communications*, **2010**, 31, 780-7	1.6	4

26	Novel and facile methods for the synthesis of DTPA-mono-amide: a new completely revised strategy in radiopharmaceutical chemistry. *Journal of Radioanalytical and Nuclear Chemistry*, **2010**, 283, 447-455	1.5	14
25	Direct 4D parametric image reconstruction with plasma input and reference tissue models in reversible binding imaging **2009**,		6
24	Anatomy assisted MAP-EM PET image reconstruction incorporating joint entropies of wavelet subband image pairs **2009**,		4
23	A practical, automated quality assurance method for measuring spatial resolution in PET. *Journal of Nuclear Medicine*, **2009**, 50, 1307-14	8.9	21
22	Four-dimensional (4D) image reconstruction strategies in dynamic PET: beyond conventional independent frame reconstruction. *Medical Physics*, **2009**, 36, 3654-70	4.4	111
21	Bayesian PET image reconstruction incorporating anato-functional joint entropy. *Physics in Medicine and Biology*, **2009**, 54, 7063-75	3.8	75
20	Optimization of Rb-82 PET acquisition and reconstruction protocols for myocardial perfusion defect detection. *Physics in Medicine and Biology*, **2009**, 54, 3161-71	3.8	26
19	Accurate event-driven motion compensation in high-resolution PET incorporating scattered and random events. *IEEE Transactions on Medical Imaging*, **2008**, 27, 1018-33	11.7	97
18	Design and implementation of an automated partial volume correction in PET: application to dopamine receptor quantification in the normal human striatum. *Journal of Nuclear Medicine*, **2008**, 49, 1097-106	8.9	76
17	Bayesian PET image reconstruction incorporating anato-functional joint entropy **2008**,		7
16	Direct 4D reconstruction of parametric images incorporating anato-functional joint entropy **2008**,		4
15	Resolution modeled PET image reconstruction incorporating space-variance of positron range: Rubidium-82 cardiac PET imaging **2008**,		7
14	Optimization of Rb-82 PET acquisition and reconstruction protocols for myocardial perfusion defect detection **2008**,		1
13	System matrix modelling of externally tracked motion. *Nuclear Medicine Communications*, **2008**, 29, 574-81	1.6	24
12	PET versus SPECT: strengths, limitations and challenges. *Nuclear Medicine Communications*, **2008**, 29, 193-207	1.6	536
11	Blood levels and DA transporter occupancy of orally administered methylphenidate in juvenile rhesus monkeys measured by high resolution PET. *Synapse*, **2008**, 62, 950-2	2.4	6
10	. *IEEE Transactions on Nuclear Science*, **2007**, 54, 71-79	1.7	11
9	Strategies for Motion Tracking and Correction in PET. *PET Clinics*, **2007**, 2, 251-66	2.2	99

8	A scatter-corrected list-mode reconstruction and a practical scatter/random approximation technique for dynamic PET imaging. *Physics in Medicine and Biology*, **2007**, 52, 2089-106	3.8	12
7	Partial Volume Correction Strategies in PET. *PET Clinics*, **2007**, 2, 235-49	2.2	127
6	11C-JHU75528: a radiotracer for PET imaging of CB1 cannabinoid receptors. *Journal of Nuclear Medicine*, **2006**, 47, 1689-96	8.9	80
5	Printed sources for positron emission tomography (PET). *IEEE Transactions on Nuclear Science*, **2005** , 52, 114-118	1.7	17
4	Statistical dynamic image reconstruction in state-of-the-art high-resolution PET. *Physics in Medicine and Biology*, **2005**, 50, 4887-912	3.8	98
3	The influence of measurement uncertainties on the evaluation of the distribution volume ratio and binding potential in rat studies on a microPET R4: a phantom study. *Physics in Medicine and Biology*, **2005**, 50, 2859-69	3.8	10
2	Testing the Ability of Convolutional Neural Networks to Learn Radiomic Features		1
1	Radiomics Analysis of Clinical Myocardial Perfusion Stress SPECT Images to Identify Coronary Artery Calcification		1