

# Arman Rahmim

## List of Publications by Citations

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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	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. <i>Radiology</i> , <b>2020</b> , 295, 328-338	20.5	734
186	PET versus SPECT: strengths, limitations and challenges. <i>Nuclear Medicine Communications</i> , <b>2008</b> , 29, 193-207	1.6	536
185	Association Between Midlife Vascular Risk Factors and Estimated Brain Amyloid Deposition. <i>JAMA - Journal of the American Medical Association</i> , <b>2017</b> , 317, 1443-1450	27.4	299
184	Resolution modeling in PET imaging: theory, practice, benefits, and pitfalls. <i>Medical Physics</i> , <b>2013</b> , 40, 064301	4.4	217
183	Quantification of cerebral cannabinoid receptors subtype 1 (CB1) in healthy subjects and schizophrenia by the novel PET radioligand [11C]OMAR. <i>NeuroImage</i> , <b>2010</b> , 52, 1505-13	7.9	163
182	Partial Volume Correction Strategies in PET. <i>PET Clinics</i> , <b>2007</b> , 2, 235-49	2.2	127
181	Four-dimensional (4D) image reconstruction strategies in dynamic PET: beyond conventional independent frame reconstruction. <i>Medical Physics</i> , <b>2009</b> , 36, 3654-70	4.4	111
180	Dynamic whole-body PET parametric imaging: I. Concept, acquisition protocol optimization and clinical application. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 7391-418	3.8	109
179	The impact of image reconstruction settings on 18F-FDG PET radiomic features: multi-scanner phantom and patient studies. <i>European Radiology</i> , <b>2017</b> , 27, 4498-4509	8	102
178	Strategies for Motion Tracking and Correction in PET. <i>PET Clinics</i> , <b>2007</b> , 2, 251-66	2.2	99
177	Statistical dynamic image reconstruction in state-of-the-art high-resolution PET. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 4887-912	3.8	98
176	Accurate event-driven motion compensation in high-resolution PET incorporating scattered and random events. <i>IEEE Transactions on Medical Imaging</i> , <b>2008</b> , 27, 1018-33	11.7	97
175	The ARIC-PET amyloid imaging study: Brain amyloid differences by age, race, sex, and APOE. <i>Neurology</i> , <b>2016</b> , 87, 473-80	6.5	81
174	11C-JHU75528: a radiotracer for PET imaging of CB1 cannabinoid receptors. <i>Journal of Nuclear Medicine</i> , <b>2006</b> , 47, 1689-96	8.9	80
173	The Role of Dopamine in Value-Based Attentional Orienting. <i>Current Biology</i> , <b>2016</b> , 26, 550-5	6.3	78
172	Design and implementation of an automated partial volume correction in PET: application to dopamine receptor quantification in the normal human striatum. <i>Journal of Nuclear Medicine</i> , <b>2008</b> , 49, 1097-106	8.9	76
171	Robustness of Radiomic Features in [C]Choline and [F]FDG PET/CT Imaging of Nasopharyngeal Carcinoma: Impact of Segmentation and Discretization. <i>Molecular Imaging and Biology</i> , <b>2016</b> , 18, 935-945 <sup>3.8</sup>	3.8	75

170	Bayesian PET image reconstruction incorporating anato-functional joint entropy. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 7063-75	3.8	75
169	Dynamic whole-body PET imaging: principles, potentials and applications. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2019</b> , 46, 501-518	8.8	62
168	Dynamic whole-body PET parametric imaging: II. Task-oriented statistical estimation. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 7419-45	3.8	56
167	Next-Generation Radiogenomics Sequencing for Prediction of EGFR and KRAS Mutation Status in NSCLC Patients Using Multimodal Imaging and Machine Learning Algorithms. <i>Molecular Imaging and Biology</i> , <b>2020</b> , 22, 1132-1148	3.8	54
166	Whole-body direct 4D parametric PET imaging employing nested generalized Patlak expectation-maximization reconstruction. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 5456-85	3.8	54
165	Head and neck tumor segmentation in PET/CT: The HECKTOR challenge.. <i>Medical Image Analysis</i> , <b>2021</b> , 77, 102336	15.4	50
164	Improved prediction of outcome in Parkinson's disease using radiomics analysis of longitudinal DAT SPECT images. <i>NeuroImage: Clinical</i> , <b>2017</b> , 16, 539-544	5.3	49
163	Generalized whole-body Patlak parametric imaging for enhanced quantification in clinical PET. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 8643-73	3.8	45
162	Application of texture analysis to DAT SPECT imaging: Relationship to clinical assessments. <i>NeuroImage: Clinical</i> , <b>2016</b> , 12, e1-e9	5.3	45
161	Robustness versus disease differentiation when varying parameter settings in radiomics features: application to nasopharyngeal PET/CT. <i>European Radiology</i> , <b>2018</b> , 28, 3245-3254	8	43
160	Noise propagation in resolution modeled PET imaging and its impact on detectability. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 6945-68	3.8	42
159	Radiomics Analysis of PET and CT Components of PET/CT Imaging Integrated with Clinical Parameters: Application to Prognosis for Nasopharyngeal Carcinoma. <i>Molecular Imaging and Biology</i> , <b>2019</b> , 21, 954-964	3.8	41
158	Direct 4D reconstruction of parametric images incorporating anato-functional joint entropy. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 4261-72	3.8	39
157	Advanced kinetic modelling strategies: towards adoption in clinical PET imaging. <i>Clinical and Translational Imaging</i> , <b>2014</b> , 2, 219-237	2	37
156	Machine learning-based prognostic modeling using clinical data and quantitative radiomic features from chest CT images in COVID-19 patients. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 132, 104304	7	37
155	Deep-JASC: joint attenuation and scatter correction in whole-body F-FDG PET using a deep residual network. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2020</b> , 47, 2533-2548	8.8	35
154	Linking dopaminergic reward signals to the development of attentional bias: A positron emission tomographic study. <i>NeuroImage</i> , <b>2017</b> , 157, 27-33	7.9	34
153	Direct attenuation correction of brain PET images using only emission data via a deep convolutional encoder-decoder (Deep-DAC). <i>European Radiology</i> , <b>2019</b> , 29, 6867-6879	8	33

152	Four-Dimensional Image Reconstruction Strategies in Cardiac-Gated and Respiratory-Gated PET Imaging. <i>PET Clinics</i> , <b>2013</b> , 8, 51-67	2.2	32
151	Direct 4D parametric imaging for linearized models of reversibly binding PET tracers using generalized AB-EM reconstruction. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 733-55	3.8	30
150	Machine Learning Methods for Optimal Radiomics-Based Differentiation Between Recurrence and Inflammation: Application to Nasopharyngeal Carcinoma Post-therapy PET/CT Images. <i>Molecular Imaging and Biology</i> , <b>2020</b> , 22, 730-738	3.8	28
149	Prognostic modeling for patients with colorectal liver metastases incorporating FDG PET radiomic features. <i>European Journal of Radiology</i> , <b>2019</b> , 113, 101-109	4.7	27
148	Anatomy assisted PET image reconstruction incorporating multi-resolution joint entropy. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 31-48	3.8	27
147	3.5D dynamic PET image reconstruction incorporating kinetics-based clusters. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 5035-55	3.8	26
146	Optimization of Rb-82 PET acquisition and reconstruction protocols for myocardial perfusion defect detection. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 3161-71	3.8	26
145	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. <i>Clinical Nuclear Medicine</i> , <b>2017</b> , 42, e227-e234	1.7	25
144	Listening to membrane potential: photoacoustic voltage-sensitive dye recording. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22, 45006	3.5	24
143	Transcranial Recording of Electrophysiological Neural Activity in the Rodent Brain Using Functional Photoacoustic Imaging of Near-Infrared Voltage-Sensitive Dye. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 579	5.1	24
142	The Vital Role of Blood Flow-Induced Proliferation and Migration in Capillary Network Formation in a Multiscale Model of Angiogenesis. <i>PLoS ONE</i> , <b>2015</b> , 10, e0128878	3.7	24
141	System matrix modelling of externally tracked motion. <i>Nuclear Medicine Communications</i> , <b>2008</b> , 29, 574-816		24
140	Multi-Level Multi-Modality Fusion Radiomics: Application to PET and CT Imaging for Prognostication of Head and Neck Cancer. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2020</b> , 24, 2268-2277	7.2	24
139	Design and development of a high resolution animal SPECT scanner dedicated for rat and mouse imaging. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2014</b> , 741, 169-176	1.2	23
138	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. <i>Molecular Imaging and Biology</i> , <b>2013</b> , 15, 655-65	3.8	23
137	Comparative assessment of energy-mapping approaches in CT-based attenuation correction for PET. <i>Molecular Imaging and Biology</i> , <b>2011</b> , 13, 187-98	3.8	23
136	18F-FDG-PET/CT therapy assessment of locally advanced pancreatic adenocarcinoma: impact on management and utilization of quantitative parameters for patient survival prediction. <i>Nuclear Medicine Communications</i> , <b>2016</b> , 37, 231-8	1.6	22
135	Repeatability of radiomic features in magnetic resonance imaging of glioblastoma: Test-retest and image registration analyses. <i>Medical Physics</i> , <b>2020</b> , 47, 4265-4280	4.4	22

134	Simultaneous measurement of noise and spatial resolution in PET phantom images. <i>Physics in Medicine and Biology</i> , <b>2010</b> , 55, 1069-81	3.8	22
133	Spatiotemporal distribution modeling of PET tracer uptake in solid tumors. <i>Annals of Nuclear Medicine</i> , <b>2017</b> , 31, 109-124	2.5	21
132	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. <i>American Journal of Roentgenology</i> , <b>2016</b> , 207, 641-7	5.4	21
131	A practical, automated quality assurance method for measuring spatial resolution in PET. <i>Journal of Nuclear Medicine</i> , <b>2009</b> , 50, 1307-14	8.9	21
130	3D Prior Image Constrained Projection Completion for X-ray CT Metal Artifact Reduction. <i>IEEE Transactions on Nuclear Science</i> , <b>2013</b> , 60, 3318-3332	1.7	20
129	Is metal artefact reduction mandatory in cardiac PET/CT imaging in the presence of pacemaker and implantable cardioverter defibrillator leads?. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2011</b> , 38, 252-62	8.8	20
128	Optimized machine learning methods for prediction of cognitive outcome in Parkinson's disease. <i>Computers in Biology and Medicine</i> , <b>2019</b> , 111, 103347	7	19
127	Point/counterpoint. Resolution modeling enhances PET imaging. <i>Medical Physics</i> , <b>2013</b> , 40, 120601	4.4	18
126	Integration of PET/CT Radiomics and Semantic Features for Differentiation between Active Pulmonary Tuberculosis and Lung Cancer. <i>Molecular Imaging and Biology</i> , <b>2021</b> , 23, 287-298	3.8	18
125	Dynamic Multi-Bed FDG PET imaging: Feasibility and optimization <b>2011</b> ,		17
124	Printed sources for positron emission tomography (PET). <i>IEEE Transactions on Nuclear Science</i> , <b>2005</b> , 52, 114-118	1.7	17
123	Machine learning methods for optimal prediction of motor outcome in Parkinson's disease. <i>Physica Medica</i> , <b>2020</b> , 69, 233-240	2.7	17
122	Enhanced Drug Delivery to Solid Tumors via Drug-Loaded Nanocarriers: An Image-Based Computational Framework. <i>Frontiers in Oncology</i> , <b>2021</b> , 11, 655781	5.3	17
121	A physics-guided modular deep-learning based automated framework for tumor segmentation in PET. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 245032	3.8	16
120	Initial human experience with Rubidium-82 renal PET/CT imaging. <i>Journal of Medical Imaging and Radiation Oncology</i> , <b>2014</b> , 58, 25-31	1.7	16
119	Artificial Neural Network-Based Prediction of Outcome in Parkinson's Disease Patients Using DaTscan SPECT Imaging Features. <i>Molecular Imaging and Biology</i> , <b>2019</b> , 21, 1165-1173	3.8	15
118	Impact of acquisition time-window on clinical whole-body PET parametric imaging <b>2014</b> ,		15
117	PET Parametric Imaging: Past, Present, and Future. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2020</b> , 4, 663-675	4.2	15

116	Novel and facile methods for the synthesis of DTPA-mono-amide: a new completely revised strategy in radiopharmaceutical chemistry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>2010</b> , 283, 447-455	1.5	14
115	Generalized PSF modeling for optimized quantitation in PET imaging. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 5149-5179	3.8	13
114	Anatomy-guided brain PET imaging incorporating a joint prior model. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 2145-66	3.8	13
113	A novel metric for quantification of homogeneous and heterogeneous tumors in PET for enhanced clinical outcome prediction. <i>Physics in Medicine and Biology</i> , <b>2016</b> , 61, 227-42	3.8	13
112	Fluorodeoxyglucose positron emission tomography/computerized tomography in differentiated thyroid cancer management: Importance of clinical justification and value in predicting survival. <i>Journal of Medical Imaging and Radiation Oncology</i> , <b>2015</b> , 59, 281-8	1.7	13
111	Blood flow and endothelial cell phenotype regulation during sprouting angiogenesis. <i>Medical and Biological Engineering and Computing</i> , <b>2016</b> , 54, 547-58	3.1	12
110	Quantitative myocardial perfusion PET parametric imaging at the voxel-level. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 6013-37	3.8	12
109	A scatter-corrected list-mode reconstruction and a practical scatter/random approximation technique for dynamic PET imaging. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 2089-106	3.8	12
108	Implementation of absolute quantification in small-animal SPECT imaging: Phantom and animal studies. <i>Journal of Applied Clinical Medical Physics</i> , <b>2017</b> , 18, 215-223	2.3	11
107	MRI-assisted dual motion correction for myocardial perfusion defect detection in PET imaging. <i>Medical Physics</i> , <b>2017</b> , 44, 4536-4547	4.4	11
106	. <i>IEEE Transactions on Nuclear Science</i> , <b>2007</b> , 54, 71-79	1.7	11
105	Transcranial photoacoustic imaging of NMDA-evoked focal circuit dynamics in the rat hippocampus. <i>Journal of Neural Engineering</i> , <b>2020</b> , 17, 025001	5	10
104	Resolution-recovery-embedded image reconstruction for a high-resolution animal SPECT system. <i>Physica Medica</i> , <b>2014</b> , 30, 774-81	2.7	10
103	Introducing time-of-flight and resolution recovery image reconstruction to clinical whole-body PET parametric imaging <b>2014</b> ,		10
102	A Scatter Calibration Technique for Dynamic Brain Imaging in High Resolution PET. <i>IEEE Transactions on Nuclear Science</i> , <b>2010</b> , 57, 225-233	1.7	10
101	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. <i>Physics in Medicine and Biology</i> , <b>2005</b> , 50, 2859-69	3.8	10
100	Robust identification of Parkinson's disease subtypes using radiomics and hybrid machine learning. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 129, 104142	7	10
99	Impact of point spread function reconstruction on quantitative <sup>18</sup> F-FDG-PET/CT imaging parameters and inter-reader reproducibility in solid tumors. <i>Nuclear Medicine Communications</i> , <b>2016</b> , 37, 288-96	1.6	9

98	Use of Generative Disease Models for Analysis and Selection of Radiomic Features in PET. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , <b>2019</b> , 3, 178-191	4.2	9
97	Smoothly clipped absolute deviation (SCAD) regularization for compressed sensing MRI using an augmented Lagrangian scheme. <i>Magnetic Resonance Imaging</i> , <b>2013</b> , 31, 1399-411	3.3	9
96	Measuring PET Spatial Resolution Using a Cylinder Phantom Positioned at an Oblique Angle. <i>Journal of Nuclear Medicine</i> , <b>2018</b> , 59, 1768-1775	8.9	8
95	A Novel Framework for Automated Segmentation and Labeling of Homogeneous Versus Heterogeneous Lung Tumors in [F]FDG-PET Imaging. <i>Molecular Imaging and Biology</i> , <b>2017</b> , 19, 456-468	3.8	8
94	4D respiratory motion-corrected Rb-82 myocardial perfusion PET image reconstruction <b>2010</b> ,		8
93	Quantitative study of cardiac motion estimation and abnormality classification in emission computed tomography. <i>Medical Engineering and Physics</i> , <b>2011</b> , 33, 563-72	2.4	8
92	Impact of image reconstruction methods on quantitative accuracy and variability of FDG-PET volumetric and textural measures in solid tumors. <i>European Radiology</i> , <b>2019</b> , 29, 2146-2156	8	8
91	Data-driven, voxel-based analysis of brain PET images: Application of PCA and LASSO methods to visualize and quantify patterns of neurodegeneration. <i>PLoS ONE</i> , <b>2018</b> , 13, e0206607	3.7	8
90	Feature selection and machine learning methods for optimal identification and prediction of subtypes in Parkinson's disease. <i>Computer Methods and Programs in Biomedicine</i> , <b>2021</b> , 206, 106131	6.9	8
89	Radiomics in PET Imaging:: A Practical Guide for Newcomers. <i>PET Clinics</i> , <b>2021</b> , 16, 597-612	2.2	8
88	Evaluation of inverse methods for estimation of mechanical parameters in solid tumors. <i>Biomedical Physics and Engineering Express</i> , <b>2020</b> , 6, 035027	1.5	7
87	Towards quantitative myocardial perfusion PET in the clinic. <i>Journal of the American College of Radiology</i> , <b>2014</b> , 11, 429-32	3.5	7
86	A novel non-linear recursive filter design for extracting high rate pulse features in nuclear medicine imaging and spectroscopy. <i>Medical Engineering and Physics</i> , <b>2013</b> , 35, 754-64	2.4	7
85	Generalized dynamic PET inter-frame and intra-frame motion correction - Phantom and human validation studies <b>2012</b> ,		7
84	Bayesian PET image reconstruction incorporating anato-functional joint entropy <b>2008</b> ,		7
83	Resolution modeled PET image reconstruction incorporating space-variance of positron range: Rubidium-82 cardiac PET imaging <b>2008</b> ,		7
82	Feasibility of Single-Time-Point Dosimetry for Radiopharmaceutical Therapies. <i>Journal of Nuclear Medicine</i> , <b>2021</b> , 62, 1006-1011	8.9	7
81	Artificial intelligence-driven assessment of radiological images for COVID-19. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 136, 104665	7	7

80	Practical no-gold-standard evaluation framework for quantitative imaging methods: application to lesion segmentation in positron emission tomography. <i>Journal of Medical Imaging</i> , <b>2017</b> , 4, 011011	2.6	6
79	Dynamic PET denoising incorporating a composite image guided filter <b>2014</b> ,		6
78	Direct 4D parametric image reconstruction with plasma input and reference tissue models in reversible binding imaging <b>2009</b> ,		6
77	Blood levels and DA transporter occupancy of orally administered methylphenidate in juvenile rhesus monkeys measured by high resolution PET. <i>Synapse</i> , <b>2008</b> , 62, 950-2	2.4	6
76	AI-Based Detection, Classification and Prediction/Prognosis in Medical Imaging:: Towards Radiophenomics. <i>PET Clinics</i> , <b>2022</b> , 17, 183-212	2.2	6
75	Design and assessment of a novel SPECT system for desktop open-gantry imaging of small animals: A simulation study. <i>Medical Physics</i> , <b>2016</b> , 43, 2581	4.4	6
74	Multi-level multi-modality (PET and CT) fusion radiomics: prognostic modeling for non-small cell lung carcinoma. <i>Physics in Medicine and Biology</i> , <b>2021</b> , 66,	3.8	6
73	A Brief History of AI: How to Prevent Another Winter (A Critical Review). <i>PET Clinics</i> , <b>2021</b> , 16, 449-469	2.2	6
72	Improved scatter correction with factor analysis for planar and SPECT imaging. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 094303	1.7	5
71	Texture and shape analysis on high and low spatial resolution emission images <b>2014</b> ,		5
70	Generalized inter-frame and intra-frame motion correction in PET imaging - a simulation study <b>2011</b> ,		5
69	Short-duration dynamic FDG PET imaging: Optimization and clinical application. <i>Physica Medica</i> , <b>2020</b> , 80, 193-200	2.7	5
68	GAN-Based Bi-Modal Segmentation Using Mumford-Shah Loss: Application to Head and Neck Tumors in PET-CT Images. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 99-108	0.9	5
67	A spatiotemporal multi-scale computational model for FDG PET imaging at different stages of tumor growth and angiogenesis. <i>Scientific Reports</i> , <b>2022</b> , 12,	4.9	5
66	A three-step reconstruction method for fluorescence molecular tomography based on compressive sensing. <i>Proceedings of SPIE</i> , <b>2017</b> , 10059,	1.7	4
65	Image reconstruction in fluorescence molecular tomography with sparsity-initialized maximum-likelihood expectation maximization. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 3106-3121	3.5	4
64	Imager-4D: New Software for Viewing Dynamic PET Scans and Extracting Radiomic Parameters from PET Data. <i>Journal of Digital Imaging</i> , <b>2019</b> , 32, 1071-1080	5.3	4
63	Anatomy assisted MAP-EM PET image reconstruction incorporating joint entropies of wavelet subband image pairs <b>2009</b> ,		4

62	Enhanced whole-body PET parametric imaging using hybrid regression and thresholding driven by kinetic correlations <b>2012</b> ,		4
61	Coronary calcium score scan-based attenuation correction in cardiovascular PET imaging. <i>Nuclear Medicine Communications</i> , <b>2010</b> , 31, 780-7	1.6	4
60	Direct 4D reconstruction of parametric images incorporating anato-functional joint entropy <b>2008</b> ,		4
59	Trustworthy Artificial Intelligence in Medical Imaging. <i>PET Clinics</i> , <b>2022</b> , 17, 1-12	2.2	4
58	A theranostic approach based on radiolabeled antiviral drugs, antibodies and CRISPR-associated proteins for early detection and treatment of SARS-CoV-2 disease. <i>Nuclear Medicine Communications</i> , <b>2020</b> , 41, 837-840	1.6	4
57	Combined Fuzzy logic and random walker algorithm for PET image tumor delineation. <i>Nuclear Medicine Communications</i> , <b>2016</b> , 37, 171-81	1.6	4
56	Toward High-Throughput Artificial Intelligence-Based Segmentation in Oncological PET Imaging. <i>PET Clinics</i> , <b>2021</b> , 16, 577-596	2.2	4
55	Advanced Automatic Segmentation of Tumors and Survival Prediction in Head and Neck Cancer. <i>Lecture Notes in Computer Science</i> , <b>2022</b> , 202-210	0.9	4
54	Cardiac contraction motion compensation in gated myocardial perfusion SPECT: A comparative study. <i>Physica Medica</i> , <b>2018</b> , 49, 77-82	2.7	3
53	Quantification and reduction of respiratory induced artifacts in positron emission tomography/computed tomography using the time-of-flight technique. <i>Nuclear Medicine Communications</i> , <b>2017</b> , 38, 948-955	1.6	3
52	Whole-body PET parametric imaging employing direct 4D nested reconstruction and a generalized non-linear Patlak model <b>2014</b> ,		3
51	MRI assisted motion correction in dual-gated 5D myocardial perfusion PET imaging <b>2012</b> ,		3
50	Incorporating Boundary Conditions in the Integral Form of the Radiative Transfer Equation for Transcranial Imaging <b>2016</b> ,		3
49	Artificial Intelligence in Lymphoma PET Imaging:: A Scoping Review (Current Trends and Future Directions). <i>PET Clinics</i> , <b>2022</b> , 17, 145-174	2.2	3
48	Computational modeling of PET tracer distribution in solid tumors integrating microvasculature. <i>BMC Biotechnology</i> , <b>2021</b> , 21, 67	3.5	3
47	Impact of feature harmonization on radiogenomics analysis: Prediction of EGFR and KRAS mutations from non-small cell lung cancer PET/CT images.. <i>Computers in Biology and Medicine</i> , <b>2022</b> , 142, 105230	7	3
46	Mars Shot for Nuclear Medicine, Molecular Imaging, and Molecularly Targeted Radiopharmaceutical Therapy. <i>Journal of Nuclear Medicine</i> , <b>2021</b> , 62, 6-14	8.9	3
45	Dynamic PET image reconstruction utilizing intrinsic data-driven HYPR4D denoising kernel. <i>Medical Physics</i> , <b>2021</b> , 48, 2230-2244	4.4	3

44	Improved motor outcome prediction in Parkinson's disease applying deep learning to DaTscan SPECT images. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 132, 104312	7	3
43	Recovery of missing data in partial geometry PET scanners: Compensation in projection space vs image space. <i>Medical Physics</i> , <b>2018</b> , 45, 5437-5449	4.4	3
42	Enhancing ejection fraction measurement through 4D respiratory motion compensation in cardiac PET imaging. <i>Physics in Medicine and Biology</i> , <b>2017</b> , 62, 4496-4513	3.8	2
41	A radiative transfer equation-based image-reconstruction method incorporating boundary conditions for diffuse optical imaging. <i>Proceedings of SPIE</i> , <b>2017</b> , 10137,	1.7	2
40	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. <i>Nuclear Medicine Communications</i> , <b>2017</b> , 38, 985-997	1.6	2
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