

Arman Rahmim

List of Publications by Year in descending order

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Version: 2024-02-01

214
papers

8,953
citations

70961

41
h-index

51492

86
g-index

225
all docs

225
docs citations

225
times ranked

9421
citing authors

#	ARTICLE	IF	CITATIONS
1	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. <i>Radiology</i> , 2020, 295, 328-338.	3.6	1,869
2	PET versus SPECT: strengths, limitations and challenges. <i>Nuclear Medicine Communications</i> , 2008, 29, 193-207.	0.5	662
3	Association Between Midlife Vascular Risk Factors and Estimated Brain Amyloid Deposition. <i>JAMA - Journal of the American Medical Association</i> , 2017, 317, 1443.	3.8	451
4	Resolution modeling in PET imaging: Theory, practice, benefits, and pitfalls. <i>Medical Physics</i> , 2013, 40, 064301.	1.6	280
5	Quantification of cerebral cannabinoid receptors subtype 1 (CB1) in healthy subjects and schizophrenia by the novel PET radioligand [¹¹ C]OMAR. <i>NeuroImage</i> , 2010, 52, 1505-1513.	2.1	186
6	Dynamic whole-body PET parametric imaging: I. Concept, acquisition protocol optimization and clinical application. <i>Physics in Medicine and Biology</i> , 2013, 58, 7391-7418.	1.6	172
7	Partial Volume Correction Strategies in PET. <i>PET Clinics</i> , 2007, 2, 235-249.	1.5	154
8	The impact of image reconstruction settings on ¹⁸ F-FDG PET radiomic features: multi-scanner phantom and patient studies. <i>European Radiology</i> , 2017, 27, 4498-4509.	2.3	148
9	Dynamic whole-body PET imaging: principles, potentials and applications. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 501-518.	3.3	145
10	Four-dimensional (4D) image reconstruction strategies in dynamic PET: Beyond conventional independent frame reconstruction. <i>Medical Physics</i> , 2009, 36, 3654-3670.	1.6	137
11	Accurate Event-Driven Motion Compensation in High-Resolution PET Incorporating Scattered and Random Events. <i>IEEE Transactions on Medical Imaging</i> , 2008, 27, 1018-1033.	5.4	132
12	Statistical dynamic image reconstruction in state-of-the-art high-resolution PET. <i>Physics in Medicine and Biology</i> , 2005, 50, 4887-4912.	1.6	120
13	The ARIC-PET amyloid imaging study. <i>Neurology</i> , 2016, 87, 473-480.	1.5	119
14	Strategies for Motion Tracking and Correction in PET. <i>PET Clinics</i> , 2007, 2, 251-266.	1.5	117
15	Head and neck tumor segmentation in PET/CT: The HECKTOR challenge. <i>Medical Image Analysis</i> , 2022, 77, 102336.	7.0	114
16	Robustness of Radiomic Features in [¹¹ C]Choline and [¹⁸ F]FDG PET/CT Imaging of Nasopharyngeal Carcinoma: Impact of Segmentation and Discretization. <i>Molecular Imaging and Biology</i> , 2016, 18, 935-945.	1.3	100
17	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> , 2008, 49, 1097-1106.	2.8	96
18	The Role of Dopamine in Value-Based Attentional Orienting. <i>Current Biology</i> , 2016, 26, 550-555.	1.8	96

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19	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> , 2021, 132, 104304.	3.9	92
20	Bayesian PET image reconstruction incorporating anato-functional joint entropy. <i>Physics in Medicine and Biology</i> , 2009, 54, 7063-7075.	1.6	91
21	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> , 2020, 22, 1132-1148.	1.3	90
22	Dynamic whole-body PET parametric imaging: II. Task-oriented statistical estimation. <i>Physics in Medicine and Biology</i> , 2013, 58, 7419-7445.	1.6	84
23	¹¹ C-JHU75528: a radiotracer for PET imaging of CB1 cannabinoid receptors. <i>Journal of Nuclear Medicine</i> , 2006, 47, 1689-96.	2.8	84
24	Whole-body direct 4D parametric PET imaging employing nested generalized Patlak expectation-maximization reconstruction. <i>Physics in Medicine and Biology</i> , 2016, 61, 5456-5485.	1.6	79
25	Generalized whole-body Patlak parametric imaging for enhanced quantification in clinical PET. <i>Physics in Medicine and Biology</i> , 2015, 60, 8643-8673.	1.6	78
26	Improved prediction of outcome in Parkinson's disease using radiomics analysis of longitudinal DAT SPECT images. <i>NeuroImage: Clinical</i> , 2017, 16, 539-544.	1.4	76
27	Deep-JASC: joint attenuation and scatter correction in whole-body ¹⁸ F-FDG PET using a deep residual network. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 2533-2548.	3.3	73
28	Direct attenuation correction of brain PET images using only emission data via a deep convolutional encoder-decoder (Deep-DAC). <i>European Radiology</i> , 2019, 29, 6867-6879.	2.3	72
29	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> , 2019, 21, 954-964.	1.3	70
30	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> , 2020, 24, 2268-2277.	3.9	63
31	Application of texture analysis to DAT SPECT imaging: Relationship to clinical assessments. <i>NeuroImage: Clinical</i> , 2016, 12, e1-e9.	1.4	59
32	Robustness versus disease differentiation when varying parameter settings in radiomics features: application to nasopharyngeal PET/CT. <i>European Radiology</i> , 2018, 28, 3245-3254.	2.3	58
33	Advanced kinetic modelling strategies: towards adoption in clinical PET imaging. <i>Clinical and Translational Imaging</i> , 2014, 2, 219-237.	1.1	57
34	PET Parametric Imaging: Past, Present, and Future. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2020, 4, 663-675.	2.7	54
35	Noise propagation in resolution modeled PET imaging and its impact on detectability. <i>Physics in Medicine and Biology</i> , 2013, 58, 6945-6968.	1.6	51
36	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> , 2020, 22, 730-738.	1.3	51

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37	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> , 2022, 142, 105230.	3.9	50
38	Repeatability of radiomic features in magnetic resonance imaging of glioblastoma: Test-retest and image registration analyses. <i>Medical Physics</i> , 2020, 47, 4265-4280.	1.6	48
39	Direct 4D reconstruction of parametric images incorporating anato-functional joint entropy. <i>Physics in Medicine and Biology</i> , 2010, 55, 4261-4272.	1.6	47
40	Artificial intelligence-driven assessment of radiological images for COVID-19. <i>Computers in Biology and Medicine</i> , 2021, 136, 104665.	3.9	47
41	Linking dopaminergic reward signals to the development of attentional bias: A positron emission tomographic study. <i>NeuroImage</i> , 2017, 157, 27-33.	2.1	46
42	A physics-guided modular deep-learning based automated framework for tumor segmentation in PET. <i>Physics in Medicine and Biology</i> , 2020, 65, 245032.	1.6	43
43	Nuclear Medicine and Artificial Intelligence: Best Practices for Algorithm Development. <i>Journal of Nuclear Medicine</i> , 2022, 63, 500-510.	2.8	43
44	Prognostic modeling for patients with colorectal liver metastases incorporating FDG PET radiomic features. <i>European Journal of Radiology</i> , 2019, 113, 101-109.	1.2	42
45	Integration of PET/CT Radiomics and Semantic Features for Differentiation between Active Pulmonary Tuberculosis and Lung Cancer. <i>Molecular Imaging and Biology</i> , 2021, 23, 287-298.	1.3	42
46	Multi-level multi-modality (PET and CT) fusion radiomics: prognostic modeling for non-small cell lung carcinoma. <i>Physics in Medicine and Biology</i> , 2021, 66, 205017.	1.6	41
47	Transcranial Recording of Electrophysiological Neural Activity in the Rodent Brain in vivo Using Functional Photoacoustic Imaging of Near-Infrared Voltage-Sensitive Dye. <i>Frontiers in Neuroscience</i> , 2019, 13, 579.	1.4	40
48	Radiomics in PET Imaging. <i>PET Clinics</i> , 2021, 16, 597-612.	1.5	40
49	A Brief History of AI: How to Prevent Another Winter (A Critical Review). <i>PET Clinics</i> , 2021, 16, 449-469.	1.5	40
50	Four-Dimensional Image Reconstruction Strategies in Cardiac-Gated and Respiratory-Gated PET Imaging. <i>PET Clinics</i> , 2013, 8, 51-67.	1.5	38
51	Listening to membrane potential: photoacoustic voltage-sensitive dye recording. <i>Journal of Biomedical Optics</i> , 2017, 22, 045006.	1.4	38
52	Enhanced Drug Delivery to Solid Tumors via Drug-Loaded Nanocarriers: An Image-Based Computational Framework. <i>Frontiers in Oncology</i> , 2021, 11, 655781.	1.3	38
53	Optimized machine learning methods for prediction of cognitive outcome in Parkinson's disease. <i>Computers in Biology and Medicine</i> , 2019, 111, 103347.	3.9	37
54	Direct 4D parametric imaging for linearized models of reversibly binding PET tracers using generalized AB-EM reconstruction. <i>Physics in Medicine and Biology</i> , 2012, 57, 733-755.	1.6	35

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55	COVID-19 prognostic modeling using CT radiomic features and machine learning algorithms: Analysis of a multi-institutional dataset of 14,339 patients. <i>Computers in Biology and Medicine</i> , 2022, 145, 105467.	3.9	35
56	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> , 2017, 42, e227-e234.	0.7	34
57	Decentralized Distributed Multi-institutional PET Image Segmentation Using a Federated Deep Learning Framework. <i>Clinical Nuclear Medicine</i> , 2022, 47, 606-617.	0.7	34
58	3.5D dynamic PET image reconstruction incorporating kinetics-based clusters. <i>Physics in Medicine and Biology</i> , 2012, 57, 5035-5055.	1.6	33
59	Machine learning methods for optimal prediction of motor outcome in Parkinson's disease. <i>Physica Medica</i> , 2020, 69, 233-240.	0.4	32
60	Optimization of Rb-82 PET acquisition and reconstruction protocols for myocardial perfusion defect detection. <i>Physics in Medicine and Biology</i> , 2009, 54, 3161-3171.	1.6	31
61	The Vital Role of Blood Flow-Induced Proliferation and Migration in Capillary Network Formation in a Multiscale Model of Angiogenesis. <i>PLoS ONE</i> , 2015, 10, e0128878.	1.1	31
62	AI-Based Detection, Classification and Prediction/Prognosis in Medical Imaging. <i>PET Clinics</i> , 2022, 17, 183-212.	1.5	31
63	Comparative Assessment of Energy-Mapping Approaches in CT-Based Attenuation Correction for PET. <i>Molecular Imaging and Biology</i> , 2011, 13, 187-198.	1.3	30
64	System matrix modelling of externally tracked motion. <i>Nuclear Medicine Communications</i> , 2008, 29, 574-581.	0.5	29
65	Anatomy assisted PET image reconstruction incorporating multi-resolution joint entropy. <i>Physics in Medicine and Biology</i> , 2015, 60, 31-48.	1.6	29
66	Artificial Neural Network-Based Prediction of Outcome in Parkinson's Disease Patients Using DaTscan SPECT Imaging Features. <i>Molecular Imaging and Biology</i> , 2019, 21, 1165-1173.	1.3	29
67	Simultaneous measurement of noise and spatial resolution in PET phantom images. <i>Physics in Medicine and Biology</i> , 2010, 55, 1069-1081.	1.6	28
68	Dynamic Multi-Bed FDG PET imaging: Feasibility and optimization. , 2011, , .		28
69	3D Prior Image Constrained Projection Completion for X-ray CT Metal Artifact Reduction. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 3318-3332.	1.2	28
70	18F-FDG-PET/CT therapy assessment of locally advanced pancreatic adenocarcinoma. <i>Nuclear Medicine Communications</i> , 2016, 37, 231-238.	0.5	28
71	Feasibility of single-time-point dosimetry for radiopharmaceutical therapies. <i>Journal of Nuclear Medicine</i> , 2021, 62, jnumed.120.254656.	2.8	28
72	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> , 2016, 207, 641-647.	1.0	27

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73	A Practical, Automated Quality Assurance Method for Measuring Spatial Resolution in PET. <i>Journal of Nuclear Medicine</i> , 2009, 50, 1307-1314.	2.8	26
74	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> , 2014, 741, 169-176.	0.7	26
75	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> , 2021, 206, 106131.	2.6	26
76	Trustworthy Artificial Intelligence in Medical Imaging. <i>PET Clinics</i> , 2022, 17, 1-12.	1.5	26
77	Resolution modeling enhances PET imaging. <i>Medical Physics</i> , 2013, 40, 120601.	1.6	25
78	Robust identification of Parkinson's disease subtypes using radiomics and hybrid machine learning. <i>Computers in Biology and Medicine</i> , 2021, 129, 104142.	3.9	25
79	Objective Task-Based Evaluation of Artificial Intelligence-Based Medical Imaging Methods. <i>PET Clinics</i> , 2021, 16, 493-511.	1.5	25
80	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> , 2011, 38, 252-262.	3.3	24
81	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> , 2013, 15, 655-665.	1.3	24
82	Initial human experience with ⁸² Rb renal PET/CT imaging. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2014, 58, 25-31.	0.9	24
83	Spatiotemporal distribution modeling of PET tracer uptake in solid tumors. <i>Annals of Nuclear Medicine</i> , 2017, 31, 109-124.	1.2	24
84	Generalized PSF modeling for optimized quantitation in PET imaging. <i>Physics in Medicine and Biology</i> , 2017, 62, 5149-5179.	1.6	23
85	Toward High-Throughput Artificial Intelligence-Based Segmentation in Oncological PET Imaging. <i>PET Clinics</i> , 2021, 16, 577-596.	1.5	23
86	Artificial Intelligence in Lymphoma PET Imaging. <i>PET Clinics</i> , 2022, 17, 145-174.	1.5	23
87	Implications of physics, chemistry and biology for dosimetry calculations using theranostic pairs. <i>Theranostics</i> , 2022, 12, 232-259.	4.6	23
88	Transcranial photoacoustic imaging of NMDA-evoked focal circuit dynamics in the rat hippocampus. <i>Journal of Neural Engineering</i> , 2020, 17, 025001.	1.8	21
89	Printed sources for positron emission tomography (PET). <i>IEEE Transactions on Nuclear Science</i> , 2005, 52, 114-118.	1.2	20
90	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> , 2015, 59, 281-288.	0.9	20

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91	A novel metric for quantification of homogeneous and heterogeneous tumors in PET for enhanced clinical outcome prediction. <i>Physics in Medicine and Biology</i> , 2016, 61, 227-242.	1.6	20
92	Longitudinal clustering analysis and prediction of Parkinson's disease progression using radiomics and hybrid machine learning. <i>Quantitative Imaging in Medicine and Surgery</i> , 2022, 12, 906-919.	1.1	20
93	A spatiotemporal multi-scale computational model for FDG PET imaging at different stages of tumor growth and angiogenesis. <i>Scientific Reports</i> , 2022, 12, .	1.6	20
94	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> , 2010, 283, 447-455.	0.7	19
95	Improved motor outcome prediction in Parkinson's disease applying deep learning to DaTscan SPECT images. <i>Computers in Biology and Medicine</i> , 2021, 132, 104312.	3.9	19
96	A Linogram/Sinogram Cross-Correlation Method for Motion Correction in Planar and SPECT Imaging. <i>IEEE Transactions on Nuclear Science</i> , 2007, 54, 71-79.	1.2	18
97	Resolution-recovery-embedded image reconstruction for a high-resolution animal SPECT system. <i>Physica Medica</i> , 2014, 30, 774-781.	0.4	17
98	A scatter-corrected list-mode reconstruction and a practical scatter/random approximation technique for dynamic PET imaging. <i>Physics in Medicine and Biology</i> , 2007, 52, 2089-2106.	1.6	16
99	Impact of acquisition time-window on clinical whole-body PET parametric imaging. , 2014, , .		16
100	Measuring PET Spatial Resolution Using a Cylinder Phantom Positioned at an Oblique Angle. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1768-1775.	2.8	16
101	Impact of image reconstruction methods on quantitative accuracy and variability of FDG-PET volumetric and textural measures in solid tumors. <i>European Radiology</i> , 2019, 29, 2146-2156.	2.3	16
102	Smoothly Clipped Absolute Deviation (SCAD) regularization for compressed sensing MRI Using an augmented Lagrangian scheme. <i>Magnetic Resonance Imaging</i> , 2013, 31, 1399-1411.	1.0	15
103	Dynamic PET image reconstruction utilizing intrinsic data-driven HYPR4D denoising kernel. <i>Medical Physics</i> , 2021, 48, 2230-2244.	1.6	15
104	Anatomy-guided brain PET imaging incorporating a joint prior model. <i>Physics in Medicine and Biology</i> , 2015, 60, 2145-2166.	1.6	14
105	Practical no-gold-standard evaluation framework for quantitative imaging methods: application to lesion segmentation in positron emission tomography. <i>Journal of Medical Imaging</i> , 2017, 4, 011011.	0.8	14
106	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> , 2018, 13, e0206607.	1.1	14
107	Short-duration dynamic FDG PET imaging: Optimization and clinical application. <i>Physica Medica</i> , 2020, 80, 193-200.	0.4	14
108	A Scatter Calibration Technique for Dynamic Brain Imaging in High Resolution PET. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 225-233.	1.2	13

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109	Quantitative myocardial perfusion PET parametric imaging at the voxel-level. <i>Physics in Medicine and Biology</i> , 2015, 60, 6013-6037.	1.6	13
110	Blood flow and endothelial cell phenotype regulation during sprouting angiogenesis. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 547-558.	1.6	13
111	Implementation of absolute quantification in small animal SPECT imaging: Phantom and animal studies. <i>Journal of Applied Clinical Medical Physics</i> , 2017, 18, 215-223.	0.8	13
112	Mars Shot for Nuclear Medicine, Molecular Imaging, and Molecularly Targeted Radiopharmaceutical Therapy. <i>Journal of Nuclear Medicine</i> , 2021, 62, 6-14.	2.8	13
113	Artificial Intelligence in Medical Imaging and its Impact on the Rare Disease Community: Threats, Challenges and Opportunities. <i>PET Clinics</i> , 2022, 17, 13-29.	1.5	13
114	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> , 2005, 50, 2859-2869.	1.6	12
115	Impact of point spread function reconstruction on quantitative 18F-FDG-PET/CT imaging parameters and inter-reader reproducibility in solid tumors. <i>Nuclear Medicine Communications</i> , 2016, 37, 288-296.	0.5	12
116	MRI-assisted dual motion correction for myocardial perfusion defect detection in PET imaging. <i>Medical Physics</i> , 2017, 44, 4536-4547.	1.6	12
117	Role of Artificial Intelligence in Theranostics. <i>PET Clinics</i> , 2021, 16, 627-641.	1.5	12
118	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> , 2013, 35, 754-764.	0.8	11
119	Introducing time-of-flight and resolution recovery image reconstruction to clinical whole-body PET parametric imaging. , 2014, , .		11
120	Quantitative study of cardiac motion estimation and abnormality classification in emission computed tomography. <i>Medical Engineering and Physics</i> , 2011, 33, 563-572.	0.8	10
121	A Novel Framework for Automated Segmentation and Labeling of Homogeneous Versus Heterogeneous Lung Tumors in [18F]FDG-PET Imaging. <i>Molecular Imaging and Biology</i> , 2017, 19, 456-468.	1.3	10
122	Context-Aware Saliency Guided Radiomics: Application to Prediction of Outcome and HPV-Status from Multi-Center PET/CT Images of Head and Neck Cancer. <i>Cancers</i> , 2022, 14, 1674.	1.7	10
123	Modeling the efficacy of different anti-angiogenic drugs on treatment of solid tumors using 3D computational modeling and machine learning. <i>Computers in Biology and Medicine</i> , 2022, 146, 105511.	3.9	10
124	Bayesian PET image reconstruction incorporating anato-functional joint entropy. , 2008, , .		9
125	Resolution modeled PET image reconstruction incorporating space-variance of positron range: Rubidium-82 cardiac PET imaging. , 2008, , .		9
126	Dynamic PET denoising incorporating a composite image guided filter. , 2014, , .		9

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127	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.	2.7	9
128	Advanced Automatic Segmentation of Tumors and Survival Prediction in Head and Neck Cancer. Lecture Notes in Computer Science, 2022, , 202-210.	1.0	9
129	Testing the Ability of Convolutional Neural Networks to Learn Radiomic Features. Computer Methods and Programs in Biomedicine, 2022, 219, 106750.	2.6	9
130	4D respiratory motion-corrected Rb-82 myocardial perfusion PET image reconstruction. , 2010, , .		8
131	Towards Quantitative Myocardial Perfusion PET in the Clinic. Journal of the American College of Radiology, 2014, 11, 429-432.	0.9	8
132	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.	1.0	8
133	Clinical Application of Artificial Intelligence in Positron Emission Tomography: Imaging of Prostate Cancer. PET Clinics, 2022, 17, 137-143.	1.5	8
134	Radiomics-guided radiation therapy: opportunities and challenges. Physics in Medicine and Biology, 2022, 67, 12TR02.	1.6	8
135	Blood levels and DA transporter occupancy of orally administered methylphenidate in juvenile rhesus monkeys measured by high resolution PET. Synapse, 2008, 62, 950-952.	0.6	7
136	Generalized dynamic PET inter-frame and intra-frame motion correction - Phantom and human validation studies. , 2012, , .		7
137	Whole-body PET parametric imaging employing direct 4D nested reconstruction and a generalized non-linear Patlak model. , 2014, , .		7
138	Design and assessment of a novel SPECT system for desktop open-gantry imaging of small animals: A simulation study. Medical Physics, 2016, 43, 2581-2597.	1.6	7
139	Improved scatter correction with factor analysis for planar and SPECT imaging. Review of Scientific Instruments, 2017, 88, 094303.	0.6	7
140	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.	0.5	7
141	Evaluation of inverse methods for estimation of mechanical parameters in solid tumors. Biomedical Physics and Engineering Express, 2020, 6, 035027.	0.6	7
142	Design of an anthropomorphic PET phantom with elastic lungs and respiration modeling. Medical Physics, 2021, 48, 4205-4217.	1.6	7
143	Impact of image reconstruction method on dose distributions derived from ⁹⁰ Y PET images: phantom and liver radioembolization patient studies. Physics in Medicine and Biology, 2020, 65, 215022.	1.6	7
144	Direct 4D parametric image reconstruction with plasma input and reference tissue models in reversible binding imaging. , 2009, , .		6

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145	Texture and shape analysis on high and low spatial resolution emission images. , 2014, , .		6
146	Prediction of outcome in Parkinsonâ€™s disease patients from DAT SPECT images using a convolutional neural network. , 2018, , .		6
147	Recovery of missing data in partial geometry <scp>PET</scp> scanners: Compensation in projection space vs image space. Medical Physics, 2018, 45, 5437-5449.	1.6	6
148	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.	0.4	6
149	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.	0.5	6
150	Deconvolution-based partial volume correction of PET images with parallel level set regularization. Physics in Medicine and Biology, 2021, 66, 145003.	1.6	6
151	Direct 4D reconstruction of parametric images incorporating anato-functional joint entropy. , 2008, , .		5
152	Anatomy assisted MAP-EM PET image reconstruction incorporating joint entropies of wavelet subband image pairs. , 2009, , .		5
153	Coronary calcium score scan-based attenuation correction in cardiovascular PET imaging. Nuclear Medicine Communications, 2010, 31, 780-787.	0.5	5
154	Generalized inter-frame and intra-frame motion correction in PET imaging - a simulation study. , 2011, , .		5
155	Quantitative whole-body parametric PET imaging incorporating a generalized Patlak model. , 2013, , .		5
156	A three-step reconstruction method for fluorescence molecular tomography based on compressive sensing. , 2017, 10059, .		5
157	Enhancing ejection fraction measurement through 4D respiratory motion compensation in cardiac PET imaging. Physics in Medicine and Biology, 2017, 62, 4496-4513.	1.6	5
158	Image reconstruction in fluorescence molecular tomography with sparsity-initialized maximum-likelihood expectation maximization. Biomedical Optics Express, 2018, 9, 3106.	1.5	5
159	Imager-4D: New Software for Viewing Dynamic PET Scans and Extracting Radiomic Parameters from PET Data. Journal of Digital Imaging, 2019, 32, 1071-1080.	1.6	5
160	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.	1.0	5
161	Voxel-based partial volume correction of PET images via subtle MRI guided non-local means regularization. Physica Medica, 2021, 89, 129-139.	0.4	5
162	PET and AI Trajectories Finally Coming into Alignment. PET Clinics, 2021, 16, xv-xvi.	1.5	5

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163	Enhanced whole-body PET parametric imaging using hybrid regression and thresholding driven by kinetic correlations. , 2012, , .		4
164	Combined fuzzy logic and random walker algorithm for PET image tumor delineation. Nuclear Medicine Communications, 2016, 37, 171-181.	0.5	4
165	Cardiac contraction motion compensation in gated myocardial perfusion SPECT: A comparative study. Physica Medica, 2018, 49, 77-82.	0.4	4
166	Artificial Intelligence in PET. PET Clinics, 2021, 16, 483-492.	1.5	4
167	Computational modeling of PET tracer distribution in solid tumors integrating microvasculature. BMC Biotechnology, 2021, 21, 67.	1.7	4
168	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.	1.0	4
169	Prediction of TNM stage in head and neck cancer using hybrid machine learning systems and radiomics features. , 2022, , .		4
170	Harmonization based on quantitative analysis of standardized uptake value variations across PET/CT scanners: a multicenter phantom study. Nuclear Medicine Communications, 2022, 43, 1004-1014.	0.5	4
171	MRI assisted motion correction in dual-gated 5D myocardial perfusion PET imaging. , 2012, , .		3
172	Towards continualized task-based resolution modeling in PET imaging. , 2014, , .		3
173	Clinical evaluation of direct 4D whole-body PET parametric imaging with time-of-flight and resolution modeling capabilities. , 2015, , .		3
174	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.	1.5	3
175	Incorporating Boundary Conditions in the Integral Form of the Radiative Transfer Equation for Transcranial Imaging. , 2016, , .		3
176	Motion in nuclear cardiology imaging: types, artifacts, detection and correction techniques. Physics in Medicine and Biology, 2022, 67, 02TR02.	1.6	3
177	Advanced survival prediction in head and neck cancer using hybrid machine learning systems and radiomics features. , 2022, , .		3
178	Multi-modality fusion coupled with deep learning for improved outcome prediction in head and neck cancer. , 2022, , .		3
179	A Global and a segmented plane scatter calibration: improving the quantitative accuracy of frames with high random fraction and/or low number of counts in dynamic high resolution PET brain imaging. , 2007, , .		2
180	MRI guided myocardial perfusion PET image reconstruction. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
181	Parametric myocardial perfusion PET imaging using physiological clustering. Proceedings of SPIE, 2014, , .	0.8	2
182	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, 559-570.	1.2	2
183	Application of pattern recognition framework for quantification of Parkinson's disease in DAT SPECT imaging. , 2014, , .		2
184	A radiative transfer equation-based image-reconstruction method incorporating boundary conditions for diffuse optical imaging. , 2017, 10137, .		2
185	Low-dose 90Y PET/CT imaging optimized for lesion detectability and quantitative accuracy. Nuclear Medicine Communications, 2017, 38, 985-997.	0.5	2
186	Dynamic PET Reconstruction Utilizing a Spatiotemporal 4D De-noising Kernel. , 2018, , .		2
187	Economic sanctions are against basic human rights on health. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 1046-1047.	3.3	2
188	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, 2022, 49, 424-426.	3.3	2
189	Quantitative evaluation of PSMA PET imaging using a realistic anthropomorphic phantom and shell-less radioactive epoxy lesions. EJNMMI Physics, 2022, 9, 2.	1.3	2
190	Latest advance in the scatter calibration and combining the scatter calibration with a practical scatter and random approximation technique for dynamic brain imaging in high resolution PET. , 2008, , .		1
191	Optimization of Rb-82 PET acquisition and reconstruction protocols for myocardial perfusion defect detection. , 2008, , .		1
192	Image reconstruction for robot assisted ultrasound tomography. , 2016, , .		1
193	Scatter correction for planar and SPECT imaging with factor analysis. Physica Medica, 2016, 32, 240.	0.4	1
194	Enhancement of dynamic myocardial perfusion PET images based on low-rank plus sparse decomposition. Computer Methods and Programs in Biomedicine, 2018, 154, 57-69.	2.6	1
195	Resolution modeling in PET imaging: Theory, practice, benefits, and pitfalls. , 2013, 40, 064301.		1
196	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.	0.1	1
197	Computationally efficient system matrix calculation techniques in computed tomography iterative reconstruction. Journal of Medical Signals and Sensors, 2020, 10, 1.	0.5	1
198	Taming the Complexity: Using Artificial Intelligence in a Cross-Disciplinary Innovative Platform to Redefine Molecular Imaging and Radiopharmaceutical Therapy. PET Clinics, 2022, 17, xvii-xix.	1.5	1

#	ARTICLE	IF	CITATIONS
199	Comparison between the ROI based and pixel based analysis for neuroreceptor studies performed on the high resolution research tomograph (HRRT). , 2006, , .		0
200	Data Processing Methods for a High Throughput Brain Imaging PET Research Center. , 2006, , .		0
201	Effect of measurement uncertainty on region of interest based and parametric binding potential estimates for the high resolution research tomograph (HRRT). , 2007, , .		0
202	Motion-incorporated partial volume correction: Methodology and validation. , 2010, , .		0
203	Cluster-based priors for MAP PET image reconstruction. , 2011, , .		0
204	Performance evaluation of the Inveon PET scanner using GATE based on the NEMA NU-4 standards. , 2013, , .		0
205	Anatomy-guided brain PET imaging incorporating a joint prior model. , 2014, , .		0
206	Sub-regional pattern analysis of heterogeneous PET tracer distribution employed for disease assessment. , 2016, , .		0
207	Reproducibility of Cold Uptake Radiomics in 99m Tc-Sestamibi SPECT Imaging of Renal Cell Carcinoma. , 2017, , .		0
208	Dual-modality joint reconstruction of PET-MRI incorporating a cross-guided prior. , 2018, , .		0
209	Radiomics analysis of baseline F-FDG PET/CT images for improved prognosis in nasopharyngeal carcinoma. , 2018, , .		0
210	Subtle MR Guidance for Partial Volume Correction of PET Images: A Comparison of Techniques. , 2019, , .		0
211	Obituary for Dr. Anna Celler. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 2336-2337.	3.3	0
212	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.	1.3	0
213	Relating value-driven attentional capture to striatal dopamine: A positron emission tomography study. Journal of Vision, 2016, 16, 1134.	0.1	0
214	Learning Mechanisms Underlying Value-Driven Attention. Journal of Vision, 2017, 17, 1101.	0.1	0