

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

407 papers	9,812 citations	52 h-index	83 g-index
504 ext. papers	12,172 ext. citations	4.4 avg, IF	6.93 L-index

#	Paper	IF	Citations
407	PET versus SPECT: strengths, limitations and challenges. <i>Nuclear Medicine Communications</i> , 2008 , 29, 193-207	1.6	536
406	Design and performance evaluation of a whole-body Ingenuity TF PET-MRI system. <i>Physics in Medicine and Biology</i> , 2011 , 56, 3091-106	3.8	326
405	PET-guided delineation of radiation therapy treatment volumes: a survey of image segmentation techniques. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2010 , 37, 2165-87	8.8	272
404	Determination of the attenuation map in emission tomography. <i>Journal of Nuclear Medicine</i> , 2003 , 44, 291-315	8.9	191
403	Magnetic resonance imaging-guided attenuation and scatter corrections in three-dimensional brain positron emission tomography. <i>Medical Physics</i> , 2003 , 30, 937-48	4.4	179
402	18F-choline and/or 11C-acetate positron emission tomography: detection of residual or progressive subclinical disease at very low prostate-specific antigen values (. <i>BJU International</i> , 2007 , 99, 1415-20	5.6	175
401	PET/MR imaging: technical aspects and potential clinical applications. <i>Radiology</i> , 2013 , 267, 26-44	20.5	172
400	Relevance of accurate Monte Carlo modeling in nuclear medical imaging. <i>Medical Physics</i> , 1999 , 26, 574-608	4.4	168
399	Computational anthropomorphic models of the human anatomy: the path to realistic Monte Carlo modeling in radiological sciences. <i>Annual Review of Biomedical Engineering</i> , 2007 , 9, 471-500	12	160
398	Scatter modelling and compensation in emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2004 , 31, 761-82	8.8	152
397	An outlook on future design of hybrid PET/MRI systems. <i>Medical Physics</i> , 2011 , 38, 5667-89	4.4	148
396	A novel fuzzy C-means algorithm for unsupervised heterogeneous tumor quantification in PET. <i>Medical Physics</i> , 2010 , 37, 1309-24	4.4	143
395	Partial Volume Correction Strategies in PET. <i>PET Clinics</i> , 2007 , 2, 235-49	2.2	127
394	Classification and evaluation strategies of auto-segmentation approaches for PET: Report of AAPM task group No. 211. <i>Medical Physics</i> , 2017 , 44, e1-e42	4.4	122
393	(11)C-acetate PET in the early evaluation of prostate cancer recurrence. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2007 , 34, 185-96	8.8	119
392	Four-dimensional (4D) image reconstruction strategies in dynamic PET: beyond conventional independent frame reconstruction. <i>Medical Physics</i> , 2009 , 36, 3654-70	4.4	111
391	Strategies for Motion Tracking and Correction in PET. <i>PET Clinics</i> , 2007 , 2, 251-66	2.2	99

390	Vision 20/20: Magnetic resonance imaging-guided attenuation correction in PET/MRI: Challenges, solutions, and opportunities. <i>Medical Physics</i> , 2016 , 43, 1130-55	4.4	99
389	Assessment of various strategies for 18F-FET PET-guided delineation of target volumes in high-grade glioma patients. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2009 , 36, 182-93	8.8	96
388	Monte carlo simulation of x-ray spectra in diagnostic radiology and mammography using MCNP4C. <i>Physics in Medicine and Biology</i> , 2004 , 49, 4897-917	3.8	93
387	[(18)F]Fluoroethyltyrosine- positron emission tomography-guided radiotherapy for high-grade glioma. <i>Radiation Oncology</i> , 2008 , 3, 44	4.2	91
386	Novel quantitative techniques for assessing regional and global function and structure based on modern imaging modalities: implications for normal variation, aging and diseased states. <i>Seminars in Nuclear Medicine</i> , 2007 , 37, 223-39	5.4	85
385	Detection and quantification of focal uptake in head and neck tumours: (18)F-FDG PET/MR versus PET/CT. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2014 , 41, 462-75	8.8	83
384	Advances in PET Image Reconstruction. <i>PET Clinics</i> , 2007 , 2, 173-90	2.2	81
383	Comparative assessment of statistical brain MR image segmentation algorithms and their impact on partial volume correction in PET. <i>NeuroImage</i> , 2006 , 32, 1591-607	7.9	80
382	Fully automated segmentation of oncological PET volumes using a combined multiscale and statistical model. <i>Medical Physics</i> , 2007 , 34, 722-36	4.4	79
381	Impact of time-of-flight PET on quantification errors in MR imaging-based attenuation correction. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 635-41	8.9	77
380	Impact of miscentering on patient dose and image noise in x-ray CT imaging: phantom and clinical studies. <i>Physica Medica</i> , 2012 , 28, 191-9	2.7	77
379	Is MR-guided attenuation correction a viable option for dual-modality PET/MR imaging?. <i>Radiology</i> , 2007 , 244, 639-42	20.5	76
378	Joint Estimation of Activity and Attenuation in Whole-Body TOF PET/MRI Using Constrained Gaussian Mixture Models. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 1808-21	11.7	75
377	Clinical applications of hybrid PET/MRI in neuroimaging. <i>Clinical Nuclear Medicine</i> , 2013 , 38, e13-8	1.7	70
376	Atlas-guided non-uniform attenuation correction in cerebral 3D PET imaging. <i>NeuroImage</i> , 2005 , 25, 278-86	7.9	67
375	Imaging in head and neck squamous cell carcinoma: the potential role of PET/MRI. <i>British Journal of Radiology</i> , 2014 , 87, 20130677	3.4	66
374	Comparative study with new accuracy metrics for target volume contouring in PET image guided radiation therapy. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 2006-24	11.7	66
373	Reduction of dental filling metallic artifacts in CT-based attenuation correction of PET data using weighted virtual sinograms optimized by a genetic algorithm. <i>Medical Physics</i> , 2010 , 37, 6166-77	4.4	65

372	Point/counterpoint. Simultaneous PET/MR will replace PET/CT as the molecular multimodality imaging platform of choice. <i>Medical Physics</i> , 2007 , 34, 1525-8	4.4	65
371	Positron-emission tomography imaging of early events after transplantation of islets of Langerhans. <i>Transplantation</i> , 2005 , 79, 353-5	1.8	65
370	Current Trends in Preclinical PET System Design. <i>PET Clinics</i> , 2007 , 2, 125-60	2.2	63
369	Dynamic whole-body PET imaging: principles, potentials and applications. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019 , 46, 501-518	8.8	62
368	Fuzzy clustering-based segmented attenuation correction in whole-body PET imaging. <i>Physics in Medicine and Biology</i> , 2002 , 47, 1143-60	3.8	61
367	Metal artifact reduction strategies for improved attenuation correction in hybrid PET/CT imaging. <i>Medical Physics</i> , 2012 , 39, 3343-60	4.4	59
366	Development and validation of MCNP4C-based Monte Carlo simulator for fan- and cone-beam x-ray CT. <i>Physics in Medicine and Biology</i> , 2005 , 50, 4863-85	3.8	59
365	Comparative evaluation of scatter correction techniques in 3D positron emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2000 , 27, 1813-26		58
364	Comparative study of algorithms for synthetic CT generation from MRI: Consequences for MRI-guided radiation planning in the pelvic region. <i>Medical Physics</i> , 2018 , 45, 5218-5233	4.4	58
363	Comparative methods for PET image segmentation in pharyngolaryngeal squamous cell carcinoma. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2012 , 39, 881-91	8.8	56
362	Amyloid- β positron emission tomography imaging probes: a critical review. <i>Journal of Alzheimer's Disease</i> , 2013 , 36, 613-31	4.3	56
361	Molecular PET/CT imaging-guided radiation therapy treatment planning. <i>Academic Radiology</i> , 2009 , 16, 1108-33	4.3	56
360	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	3.8	54
359	Atlas-guided generation of pseudo-CT images for MRI-only and hybrid PET-MRI-guided radiotherapy treatment planning. <i>Physics in Medicine and Biology</i> , 2016 , 61, 6531-52	3.8	54
358	Novel adversarial semantic structure deep learning for MRI-guided attenuation correction in brain PET/MRI. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019 , 46, 2746-2759	8.8	54
357	Whole-body direct 4D parametric PET imaging employing nested generalized Patlak expectation-maximization reconstruction. <i>Physics in Medicine and Biology</i> , 2016 , 61, 5456-85	3.8	54
356	Noninvasive Fuhrman grading of clear cell renal cell carcinoma using computed tomography radiomic features and machine learning. <i>Radiologia Medica</i> , 2020 , 125, 754-762	6.5	53
355	MRI-guided attenuation correction in whole-body PET/MR: assessment of the effect of bone attenuation. <i>Annals of Nuclear Medicine</i> , 2013 , 27, 152-62	2.5	52

354	Tracer Kinetic Modeling in PET. <i>PET Clinics</i> , 2007 , 2, 267-77	2.2	52
353	X-ray CT metal artifact reduction using wavelet domain L0 sparse regularization. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 1707-22	11.7	51
352	Assessment of different computational models for generation of x-ray spectra in diagnostic radiology and mammography. <i>Medical Physics</i> , 2005 , 32, 1660-75	4.4	51
351	Feasibility of a novel design of high resolution parallax-free Compton enhanced PET scanner dedicated to brain research. <i>Physics in Medicine and Biology</i> , 2004 , 49, 2547-62	3.8	51
350	The clinical role of fusion imaging using PET, CT, and MR imaging. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2010 , 18, 133-49	1.6	49
349	Three-phase 18F-fluorocholine PET/CT in the evaluation of prostate cancer recurrence. <i>Nuklearmedizin - Nuclear Medicine</i> , 2009 , 48, 1-9; quiz N2-3	1.8	49
348	Scatter Compensation Techniques in PET. <i>PET Clinics</i> , 2007 , 2, 219-34	2.2	47
347	Assessment of errors caused by X-ray scatter and use of contrast medium when using CT-based attenuation correction in PET. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2006 , 33, 1301-13	8.8	47
346	Optimization of the effective light attenuation length of YAP:Ce and LYSO:Ce crystals for a novel geometrical PET concept. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 564, 506-514	1.2	47
345	An update on novel quantitative techniques in the context of evolving whole-body PET imaging. <i>PET Clinics</i> , 2015 , 10, 45-58	2.2	45
344	Generalized whole-body Patlak parametric imaging for enhanced quantification in clinical PET. <i>Physics in Medicine and Biology</i> , 2015 , 60, 8643-73	3.8	45
343	RapidArc, intensity modulated photon and proton techniques for recurrent prostate cancer in previously irradiated patients: a treatment planning comparison study. <i>Radiation Oncology</i> , 2009 , 4, 34	4.2	44
342	Towards enhanced PET quantification in clinical oncology. <i>British Journal of Radiology</i> , 2018 , 91, 201705084	3.4	43
341	Clinical assessment of MR-guided 3-class and 4-class attenuation correction in PET/MR. <i>Molecular Imaging and Biology</i> , 2015 , 17, 264-76	3.8	42
340	An object-oriented Monte Carlo simulator for 3D cylindrical positron tomographs. <i>Computer Methods and Programs in Biomedicine</i> , 1999 , 58, 133-45	6.9	42
339	First imaging results of an intraindividual comparison of (11)C-acetate and (18)F-fluorocholine PET/CT in patients with prostate cancer at early biochemical first or second relapse after prostatectomy or radiotherapy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2014 , 41, 68-78	8.8	41
338	Contourlet-based active contour model for PET image segmentation. <i>Medical Physics</i> , 2013 , 40, 082507	4.4	40
337	. <i>Proceedings of the IEEE</i> , 2009 , 97, 1938-1953	14.3	40

336	NEMA NU-04-based performance characteristics of the LabPET-8B small animal PET scanner. <i>Physics in Medicine and Biology</i> , 2011 , 56, 6649-64	3.8	40
335	Performance evaluation of the FLEX triumph X-PET scanner using the national electrical manufacturers association NU-4 standards. <i>Journal of Nuclear Medicine</i> , 2010 , 51, 1608-15	8.9	38
334	Scatter modelling and correction strategies in fully 3-D PET. <i>Nuclear Medicine Communications</i> , 2001 , 22, 1181-4	1.6	37
333	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	7	37
332	Current status and new horizons in Monte Carlo simulation of X-ray CT scanners. <i>Medical and Biological Engineering and Computing</i> , 2007 , 45, 809-17	3.1	36
331	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> , 2020 , 47, 2533-2548	8.8	35
330	Quantitative analysis of MRI-guided attenuation correction techniques in time-of-flight brain PET/MRI. <i>NeuroImage</i> , 2016 , 130, 123-133	7.9	35
329	Recent developments and future trends in nuclear medicine instrumentation. <i>Zeitschrift Fur Medizinische Physik</i> , 2006 , 16, 5-17	7.6	35
328	Advances in multimodality molecular imaging. <i>Journal of Medical Physics</i> , 2009 , 34, 122-8	0.7	35
327	Advances in Attenuation Correction Techniques in PET. <i>PET Clinics</i> , 2007 , 2, 191-217	2.2	34
326	Strategies for attenuation compensation in neurological PET studies. <i>NeuroImage</i> , 2007 , 34, 518-41	7.9	34
325	Development of new mixed Lu ₂ (RE ₃ ⁺) ₁₀ Al ₂ O ₃ :Ce scintillators (RE ₃ ⁺ =Y ₃ ⁺ or Gd ₃ ⁺): comparison with other Ce-doped or intrinsic scintillating crystals. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000 , 443, 331-341	1.2	34
324	Projection Space Implementation of Deep Learning-Guided Low-Dose Brain PET Imaging Improves Performance over Implementation in Image Space. <i>Journal of Nuclear Medicine</i> , 2020 , 61, 1388-1396	8.9	34
323	The promise of artificial intelligence and deep learning in PET and SPECT imaging. <i>Physica Medica</i> , 2021 , 83, 122-137	2.7	34
322	Radiomics for classification of bone mineral loss: A machine learning study. <i>Diagnostic and Interventional Imaging</i> , 2020 , 101, 599-610	5.4	33
321	Local recurrence of squamous cell carcinoma of the head and neck after radio(chemo)therapy: Diagnostic performance of FDG-PET/MRI with diffusion-weighted sequences. <i>European Radiology</i> , 2018 , 28, 651-663	8	33
320	Magnetic resonance imaging-guided attenuation correction in whole-body PET/MRI using a sorted atlas approach. <i>Medical Image Analysis</i> , 2016 , 31, 1-15	15.4	32
319	Four-Dimensional Image Reconstruction Strategies in Cardiac-Gated and Respiratory-Gated PET Imaging. <i>PET Clinics</i> , 2013 , 8, 51-67	2.2	32

318	Evaluation of whole-body MR to CT deformable image registration. <i>Journal of Applied Clinical Medical Physics</i> , 2013 , 14, 4163	2.3	32
317	Attenuation compensation in cerebral 3D PET: effect of the attenuation map on absolute and relative quantitation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2004 , 31, 52-63	8.8	32
316	FDG PET/CT methodology for evaluation of treatment response in lymphoma: from "graded visual analysis" and "semiquantitative SUVmax" to global disease burden assessment. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2014 , 41, 2158-60	8.8	31
315	Regions of interest-based discriminant analysis of DaTSCAN SPECT and FDG-PET for the classification of dementia. <i>Clinical Nuclear Medicine</i> , 2013 , 38, e112-7	1.7	31
314	On the v-line radon transform and its imaging applications. <i>International Journal of Biomedical Imaging</i> , 2010 , 2010,	5.2	31
313	A virtual sinogram method to reduce dental metallic implant artefacts in computed tomography-based attenuation correction for PET. <i>Nuclear Medicine Communications</i> , 2010 , 31, 22-31	1.6	31
312	Application of partial volume effect correction and 4D PET in the quantification of FDG avid lung lesions. <i>Molecular Imaging and Biology</i> , 2015 , 17, 140-8	3.8	30
311	Anatomically guided voxel-based partial volume effect correction in brain PET: impact of MRI segmentation. <i>Computerized Medical Imaging and Graphics</i> , 2012 , 36, 610-9	7.6	29
310	Toward a standard for the evaluation of PET-Auto-Segmentation methods following the recommendations of AAPM task group No. 211: Requirements and implementation. <i>Medical Physics</i> , 2017 , 44, 4098-4111	4.4	28
309	Clinical Assessment of Emission- and Segmentation-Based MR-Guided Attenuation Correction in Whole-Body Time-of-Flight PET/MR Imaging. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 877-83	8.9	28
308	18F-fluorocholine PET-guided target volume delineation techniques for partial prostate re-irradiation in local recurrent prostate cancer. <i>Radiotherapy and Oncology</i> , 2009 , 93, 220-5	5.3	28
307	A contextual based double watermarking of PET images by patient ID and ECG signal. <i>Computer Methods and Programs in Biomedicine</i> , 2011 , 104, 418-25	6.9	27
306	The Mathematical Foundations of 3D Compton Scatter Emission Imaging. <i>International Journal of Biomedical Imaging</i> , 2007 , 2007, 92780	5.2	27
305	One registration multi-atlas-based pseudo-CT generation for attenuation correction in PET/MRI. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016 , 43, 2021-35	8.8	26
304	Emission-based estimation of lung attenuation coefficients for attenuation correction in time-of-flight PET/MR. <i>Physics in Medicine and Biology</i> , 2015 , 60, 4813-33	3.8	26
303	Deep learning-guided joint attenuation and scatter correction in multitracer neuroimaging studies. <i>Human Brain Mapping</i> , 2020 , 41, 3667-3679	5.9	25
302	Standard SPECT myocardial perfusion estimation from half-time acquisitions using deep convolutional residual neural networks. <i>Journal of Nuclear Cardiology</i> , 2020 , 1	2.1	25
301	Implementation of an environment for Monte Carlo simulation of fully 3-D positron tomography on a high-performance parallel platform. <i>Parallel Computing</i> , 1998 , 24, 1523-1536	1	25

300	Ultra-low-dose chest CT imaging of COVID-19 patients using a deep residual neural network. <i>European Radiology</i> , 2021 , 31, 1420-1431	8	25
299	Whole-Body SPECT/CT versus Planar Bone Scan with Targeted SPECT/CT for Metastatic Workup. <i>BioMed Research International</i> , 2017 , 2017, 7039406	3	24
298	The Promise of Hybrid PET/MRI: Technical advances and clinical applications. <i>IEEE Signal Processing Magazine</i> , 2016 , 33, 67-85	9.4	24
297	Impact of metal artefacts due to EEG electrodes in brain PET/CT imaging. <i>Physics in Medicine and Biology</i> , 2008 , 53, 4417-29	3.8	24
296	Applications of artificial intelligence and deep learning in molecular imaging and radiotherapy. <i>European Journal of Hybrid Imaging</i> , 2020 , 4, 17	1.7	23
295	Comparative assessment of energy-mapping approaches in CT-based attenuation correction for PET. <i>Molecular Imaging and Biology</i> , 2011 , 13, 187-98	3.8	23
294	Artificial Neural Network-Based System for PET Volume Segmentation. <i>International Journal of Biomedical Imaging</i> , 2010 , 2010,	5.2	23
293	Structural epicardial disease and microvascular function are determinants of an abnormal longitudinal myocardial blood flow difference in cardiovascular risk individuals as determined with PET/CT. <i>Journal of Nuclear Cardiology</i> , 2010 , 17, 1023-33	2.1	23
292	Comparative evaluation of photon cross-section libraries for materials of interest in PET Monte Carlo simulations. <i>IEEE Transactions on Nuclear Science</i> , 2000 , 47, 2722-2735	1.7	23
291	Repeatability of radiomic features in magnetic resonance imaging of glioblastoma: Test-retest and image registration analyses. <i>Medical Physics</i> , 2020 , 47, 4265-4280	4.4	22
290	Monte Carlo-based evaluation of S-values in mouse models for positron-emitting radionuclides. <i>Physics in Medicine and Biology</i> , 2013 , 58, 169-82	3.8	22
289	Current Trends in PET and Combined (PET/CT and PET/MR) Systems Design. <i>PET Clinics</i> , 2007 , 2, 109-23	2.2	22
288	The New Challenges of Brain PET Imaging Technology. <i>Current Medical Imaging</i> , 2006 , 2, 3-13	1.2	22
287	Deep learning-assisted ultra-fast/low-dose whole-body PET/CT imaging. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021 , 48, 2405-2415	8.8	22
286	Does whole-body Patlak F-FDG PET imaging improve lesion detectability in clinical oncology?. <i>European Radiology</i> , 2019 , 29, 4812-4821	8	21
285	Correction of oral contrast artifacts in CT-based attenuation correction of PET images using an automated segmentation algorithm. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2008 , 35, 1812-23	8.8	21
284	3D Prior Image Constrained Projection Completion for X-ray CT Metal Artifact Reduction. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 3318-3332	1.7	20
283	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, 252-62	8.8	20

282	The effect of breathing irregularities on quantitative accuracy of respiratory gated PET/CT. <i>Medical Physics</i> , 2012 , 39, 7390-7	4.4	20
281	Preclinical Multimodality Imaging in Vivo. <i>PET Clinics</i> , 2008 , 3, 251-73	2.2	20
280	Computed tomography-based attenuation correction in neurological positron emission tomography: evaluation of the effect of the X-ray tube voltage on quantitative analysis. <i>Nuclear Medicine Communications</i> , 2006 , 27, 339-46	1.6	20
279	Depth of Interaction Estimation in a Preclinical PET Scanner Equipped with Monolithic Crystals Coupled to SiPMs Using a Deep Neural Network. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4753	2.6	20
278	Pediatric radiation dosimetry for positron-emitting radionuclides using anthropomorphic phantoms. <i>Medical Physics</i> , 2013 , 40, 102502	4.4	19
277	Reduction of artefacts caused by hip implants in CT-based attenuation-corrected PET images using 2-D interpolation of a virtual sinogram on an irregular grid. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011 , 38, 2257-68	8.8	19
276	A new deep convolutional neural network design with efficient learning capability: Application to CT image synthesis from MRI. <i>Medical Physics</i> , 2020 , 47, 5158-5171	4.4	19
275	Comparison of atlas-based techniques for whole-body bone segmentation. <i>Medical Image Analysis</i> , 2017 , 36, 98-112	15.4	18
274	Scattered radiation emission imaging: principles and applications. <i>International Journal of Biomedical Imaging</i> , 2011 , 2011, 913893	5.2	18
273	Novel design of a parallax free Compton enhanced PET scanner. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 525, 268-274	1.2	18
272	Novel Quantitative PET Techniques for Clinical Decision Support in Oncology. <i>Seminars in Nuclear Medicine</i> , 2018 , 48, 548-564	5.4	18
271	Assessment of CT dose to the fetus and pregnant female patient using patient-specific computational models. <i>European Radiology</i> , 2018 , 28, 1054-1065	8	17
270	Experimental assessment of the influence of beam hardening filters on image quality and patient dose in volumetric 64-slice X-ray CT scanners. <i>Physica Medica</i> , 2013 , 29, 249-60	2.7	17
269	Automated analysis of small animal PET studies through deformable registration to an atlas. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2012 , 39, 1807-20	8.8	17
268	Time-of-flight PET/MR on a hybrid scanner following liver radioembolisation (SIRT). <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2011 , 38, 1744-5	8.8	17
267	Measurement of scattered radiation in a volumetric 64-slice CT scanner using three experimental techniques. <i>Physics in Medicine and Biology</i> , 2010 , 55, 2269-80	3.8	17
266	Iterative Reconstruction Methods 2006 , 107-140		17
265	Assessment of the impact of model-based scatter correction on [18F]-FDG 3D brain PET in healthy subjects using statistical parametric mapping. <i>NeuroImage</i> , 2003 , 20, 1848-56	7.9	17

264	Deep learning-guided estimation of attenuation correction factors from time-of-flight PET emission data. <i>Medical Image Analysis</i> , 2020 , 64, 101718	15.4	17
263	Radiomics-based machine learning model to predict risk of death within 5-years in clear cell renal cell carcinoma patients. <i>Computers in Biology and Medicine</i> , 2021 , 129, 104135	7	17
262	Correction for Partial Volume Effect Is a Must, Not a Luxury, to Fully Exploit the Potential of Quantitative PET Imaging in Clinical Oncology. <i>Molecular Imaging and Biology</i> , 2018 , 20, 1-3	3.8	17
261	Cardiac SPECT radiomic features repeatability and reproducibility: A multi-scanner phantom study. <i>Journal of Nuclear Cardiology</i> , 2020 , 1	2.1	16
260	MR-guided joint reconstruction of activity and attenuation in brain PET-MR. <i>NeuroImage</i> , 2017 , 162, 276-288	7.9	16
259	Correction for image degrading factors is essential for accurate quantification of brain function using PET. For the proposition. <i>Medical Physics</i> , 2004 , 31, 423-5	4.4	16
258	Comparative methods for quantifying thyroid volume using planar imaging and SPECT. <i>Journal of Nuclear Medicine</i> , 1996 , 37, 1421-6	8.9	16
257	Emergency assessment of patients with acute abdominal pain using low-dose CT with iterative reconstruction: a comparative study. <i>European Radiology</i> , 2017 , 27, 3300-3309	8	15
256	Spatially guided nonlocal mean approach for denoising of PET images. <i>Medical Physics</i> , 2020 , 47, 1656-1669	16.9	15
255	Accelerated time-of-flight (TOF) PET image reconstruction using TOF bin subsetization and TOF weighting matrix pre-computation. <i>Physics in Medicine and Biology</i> , 2016 , 61, 1309-31	3.8	15
254	Impact of acquisition time-window on clinical whole-body PET parametric imaging 2014 ,		15
253	Qualitative and quantitative assessment of metal artifacts arising from implantable cardiac pacing devices in oncological PET/CT studies: a phantom study. <i>Molecular Imaging and Biology</i> , 2011 , 13, 1077-87	3.8	15
252	Whole-body voxel-based internal dosimetry using deep learning. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021 , 48, 670-682	8.8	15
251	Improvement of image quality in PET using post-reconstruction hybrid spatial-frequency domain filtering. <i>Physics in Medicine and Biology</i> , 2018 , 63, 215010	3.8	15
250	Long-term Results of a Comparative PET/CT and PET/MRI Study of ¹¹ C-Acetate and ¹⁸ F-Fluorocholine for Restaging of Early Recurrent Prostate Cancer. <i>Clinical Nuclear Medicine</i> , 2017 , 42, e242-e246	1.7	14
249	NEMA NU-4 2008 performance evaluation of Xtrim-PET: A prototype SiPM-based preclinical scanner. <i>Medical Physics</i> , 2019 , 46, 4816-4825	4.4	14
248	Fetal and maternal absorbed dose estimates for positron-emitting molecular imaging probes. <i>Journal of Nuclear Medicine</i> , 2014 , 55, 1459-66	8.9	14
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246	Quantitative Techniques in PET-CT Imaging. <i>Current Medical Imaging</i> , 2011 , 7, 216-233	1.2	14
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90	Quantitative Analysis in Functional Brain Imaging 2006 , 435-470		2
89	Impact of x-ray tube voltage, field size and object thickness on scattered radiation distribution in diagnostic radiology: A Monte Carlo investigation 2007 ,		2
88	2007 ,		2
87	Comparative Study of Time-Frequency Methods for the Detection and Categorization of Intermittent Faults in Electrical Drives 2007 ,		2
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85	Non-contrast Cine Cardiac Magnetic Resonance image radiomics features and machine learning algorithms for myocardial infarction detection.. <i>Computers in Biology and Medicine</i> , 2021 , 141, 105145	7	2

84	Whole-body PET Image Synthesis from Low-Dose Images Using Cycle-consistent Generative Adversarial Networks 2020 ,		2
83	Deep Learning-based Automated Delineation of Head and Neck Malignant Lesions from PET Images		2
82	A Novel Approach for Reducing Dental Filling Artifact in CT-Based Attenuation Correction of PET Data. <i>IFMBE Proceedings</i> , 2009 , 492-495	0.2	2
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72	MCNP-FBSM: Development of MCNP/MCNPX Source Model for Simulation of Multi-Slice Fan-Beam X-Ray CT Scanners 2019 ,		1
71	PET-CT in neuroradiology. <i>Clinical and Translational Neuroscience</i> , 2019 , 3, 2514183X1986814	0.9	1
70	Construction of realistic hybrid computational fetal phantoms from radiological images in three gestational ages for radiation dosimetry applications. <i>Physics in Medicine and Biology</i> , 2019 , 64, 205003	3.8	1
69	Fast atlas-based MRI-guided PET attenuation map generation in whole-body PET/MR imaging 2015 ,		1
68	Multi-bed tracer kinetic imaging of micro-parameters from dynamic time-of-flight PET data 2015 ,		1
67	Applications of Small-Animal Imaging in Neurology and Psychiatry 2014 , 517-546		1

66	Applications cliniques de l'imagerie hybride TEP-IRM. <i>Medecine Nucleaire</i> , 2012 , 36, 605-614	0.1	1
65	Artificial Neural Network-Statistical Approach for PET Volume Analysis and Classification. <i>Advances in Fuzzy Systems</i> , 2012 , 2012, 1-10	1.7	1
64	3D Oncological PET volume analysis using CNN and LVQNN 2010 ,		1
63	Atlas-guided automated analysis of small-animal PET studies 2011 ,		1
62	CT-based attenuation correction on the FLEX Triumph [®] preclinical PET/CT scanner 2009 ,		1
61	Clough-Tocher interpolation of virtual sinogram in a Delaunay triangulated grid for metal artifact reduction of PET/CT images 2011 ,		1
60	2011 ,		1
59	Characterization of scattered radiation profile in volumetric 64 slice CT scanner: Monte Carlo study using GATE 2011 ,		1
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