

Habib Zaidi

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1225448/habib-zaidi-publications-by-year.pdf>

Version: 2024-04-10

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.

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	Unsupervised pseudo CT generation using heterogenous multicentric CT/MR images and CycleGAN: Dosimetric assessment for 3D conformal radiotherapy.. <i>Computers in Biology and Medicine</i> , 2022 , 143, 105277	7	1
406	Robust-Deep: A Method for Increasing Brain Imaging Datasets to Improve Deep Learning Models' Performance and Robustness.. <i>Journal of Digital Imaging</i> , 2022 , 1	5.3	0
405	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	7	3
404	MRI-guided attenuation correction in torso PET/MRI: Assessment of segmentation-, atlas-, and deep learning-based approaches in the presence of outliers. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 686-701	4.4	0
403	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	7	1
402	Brain MR images segmentation using 3D CNN with features recalibration mechanism for segmented CT generation. <i>Neurocomputing</i> , 2022 , 491, 232-243	5.4	0
401	Leveraging deep neural networks to improve numerical and perceptual image quality in low-dose preclinical PET imaging. <i>Computerized Medical Imaging and Graphics</i> , 2021 , 94, 102010	7.6	0
400	Deep learning-based fully automated Z-axis coverage range definition from scout scans to eliminate overscanning in chest CT imaging. <i>Insights Into Imaging</i> , 2021 , 12, 162	5.6	0
399	DeepTOFSino: A deep learning model for synthesizing full-dose time-of-flight bin sinograms from their corresponding low-dose sinograms. <i>NeuroImage</i> , 2021 , 245, 118697	7.9	1
398	Deep learning-based denoising of low-dose SPECT myocardial perfusion images: quantitative assessment and clinical performance. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021 , 1	8.8	1
397	Overall Survival Prognostic Modelling of Non-small Cell Lung Cancer Patients Using Positron Emission Tomography/Computed Tomography Harmonised Radiomics Features: The Quest for the Optimal Machine Learning Algorithm. <i>Clinical Oncology</i> , 2021 ,	2.8	4
396	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
395	COLI-Net: Deep learning-assisted fully automated COVID-19 lung and infection pneumonia lesion detection and segmentation from chest computed tomography images.. <i>International Journal of Imaging Systems and Technology</i> , 2021 ,	2.5	1
394	Brain MR Imaging Segmentation Using Convolutional Auto Encoder Network for PET Attenuation Correction. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 430-440	0.4	1
393	The promise of artificial intelligence and deep learning in PET and SPECT imaging. <i>Physica Medica</i> , 2021 , 83, 122-137	2.7	34
392	Feasibility of Deep Learning-Guided Attenuation and Scatter Correction of Whole-Body 68Ga-PSMA PET Studies in the Image Domain. <i>Clinical Nuclear Medicine</i> , 2021 , 46, 609-615	1.7	10
391	Expanding the medical physicist curricular and professional programme to include Artificial Intelligence. <i>Physica Medica</i> , 2021 , 83, 174-183	2.7	11

390	Quantitative Molecular Positron Emission Tomography Imaging Using Advanced Deep Learning Techniques. <i>Annual Review of Biomedical Engineering</i> , 2021 , 23, 249-276	12	9
389	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
388	Treatment response prediction using MRI-based pre-, post-, and delta-radiomic features and machine learning algorithms in colorectal cancer. <i>Medical Physics</i> , 2021 , 48, 3691-3701	4.4	13
387	Deep learning-based auto-segmentation of organs at risk in high-dose rate brachytherapy of cervical cancer. <i>Radiotherapy and Oncology</i> , 2021 , 159, 231-240	5.3	8
386	Total-body PET is ready for prime time. <i>Medical Physics</i> , 2021 , 48, 3-6	4.4	1
385	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
384	Non-local mean denoising using multiple PET reconstructions. <i>Annals of Nuclear Medicine</i> , 2021 , 35, 176-186	1.86	7
383	An increase in retractions of research publications is an issue for Medical Physics. <i>Medical Physics</i> , 2021 , 48, 927-930	4.4	0
382	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
381	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
380	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
379	Development and characterization of an all-in-one gamma probe with auto-peak detection for sentinel lymph node biopsy based on NEMA NU3-2004 standard. <i>Annals of Nuclear Medicine</i> , 2021 , 35, 438-446	2.5	0
378	Deep learning-based metal artefact reduction in PET/CT imaging. <i>European Radiology</i> , 2021 , 31, 6384-6396	10	
377	Fast dynamic brain PET imaging using stochastic variational prediction for recurrent frame generation. <i>Medical Physics</i> , 2021 , 48, 5059-5071	4.4	4
376	Fully Automated Gross Tumor Volume Delineation From PET in Head and Neck Cancer Using Deep Learning Algorithms. <i>Clinical Nuclear Medicine</i> , 2021 , 46, 872-883	1.7	6
375	Overall Survival Prediction in Renal Cell Carcinoma Patients Using Computed Tomography Radiomic and Clinical Information. <i>Journal of Digital Imaging</i> , 2021 , 34, 1086-1098	5.3	4
374	PET/CT-Based Salvage Radiotherapy for Recurrent Prostate Cancer After Radical Prostatectomy: Impact on Treatment Management and Future Directions. <i>Frontiers in Oncology</i> , 2021 , 11, 742093	5.3	3
373	Automatic fetal biometry prediction using a novel deep convolutional network architecture. <i>Physica Medica</i> , 2021 , 88, 127-137	2.7	2

372	A Monte Carlo simulation study of scatter fraction and the impact of patient BMI on scatter in long axial field-of-view PET scanners. <i>Zeitschrift Fur Medizinische Physik</i> , 2021 , 31, 305-315	7.6	0
371	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,	3.8	6
370	Personalized brachytherapy dose reconstruction using deep learning. <i>Computers in Biology and Medicine</i> , 2021 , 136, 104755	7	1
369	Artificial intelligence-driven assessment of radiological images for COVID-19. <i>Computers in Biology and Medicine</i> , 2021 , 136, 104665	7	7
368	Non-small cell lung carcinoma histopathological subtype phenotyping using high-dimensional multinomial multiclass CT radiomics signature. <i>Computers in Biology and Medicine</i> , 2021 , 136, 104752	7	8
367	Comparison of the X-ray tube spectrum measurement using BGO, NaI, LYSO, and HPGe detectors in a preclinical mini-CT scanner: Monte Carlo simulation and practical experiment. <i>Radiation Physics and Chemistry</i> , 2021 , 189, 109666	2.5	3
366	. <i>IEEE Access</i> , 2021 , 1-1	3.5	6
365	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
364	Assessment of Lesion Detectability in Dynamic Whole-Body PET Imaging Using Compartmental and Patlak Parametric Mapping. <i>Clinical Nuclear Medicine</i> , 2020 , 45, e221-e231	1.7	9
363	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
362	Gel dosimetry provides the optimal end-to-end quality assurance dosimetry for MR-linacs. <i>Medical Physics</i> , 2020 , 47, 3259-3262	4.4	5
361	Potential Applications of PET-Based Novel Quantitative Techniques in Pediatric Diseases and Disorders. <i>PET Clinics</i> , 2020 , 15, 281-284	2.2	
360	Deep learning-guided joint attenuation and scatter correction in multitracer neuroimaging studies. <i>Human Brain Mapping</i> , 2020 , 41, 3667-3679	5.9	25
359	Age-dependent dose calculations for common PET radionuclides and brain radiotracers in nonhuman primate computational models. <i>Medical Physics</i> , 2020 , 47, 4465-4476	4.4	
358	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
357	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
356	Achieving 10 ps coincidence time resolution in TOF-PET is an impossible dream. <i>Medical Physics</i> , 2020 , 47, 2721-2724	4.4	12
355	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

354	Biomedical image analysis challenges should be considered as an academic exercise, not an instrument that will move the field forward in a real, practical way. <i>Medical Physics</i> , 2020 , 47, 2325-2328	4.4	1
353	Assessment of uncertainties associated with Monte Carlo-based personalized dosimetry in clinical CT examinations. <i>Physics in Medicine and Biology</i> , 2020 , 65, 045008	3.8	3
352	Spatially guided nonlocal mean approach for denoising of PET images. <i>Medical Physics</i> , 2020 , 47, 1656-1669	4.4	15
351	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
350	Cardiac SPECT radiomic features repeatability and reproducibility: A multi-scanner phantom study. <i>Journal of Nuclear Cardiology</i> , 2020 , 1	2.1	16
349	Fast Dynamic Brain PET Imaging Using a Generative Adversarial Network 2020 ,		1
348	Whole-body PET Image Synthesis from Low-Dose Images Using Cycle-consistent Generative Adversarial Networks 2020 ,		2
347	Low Dose Radiation Therapy and Convalescent Plasma: How a Hybrid Method May Maximize Benefits for COVID-19 Patients. <i>Journal of Biomedical Physics and Engineering</i> , 2020 , 10, 387-394	1	3
346	Polaroid-PET: a PET scanner with detectors fitted with Polaroid for filtering unpolarized optical photons-a Monte Carlo simulation study. <i>Physics in Medicine and Biology</i> , 2020 , 65, 235044	3.8	3
345	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
344	Truncation compensation and metallic dental implant artefact reduction in PET/MRI attenuation correction using deep learning-based object completion. <i>Physics in Medicine and Biology</i> , 2020 , 65, 195002	3.8	8
343	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
342	Novel preclinical PET geometrical concept using a monolithic scintillator crystal offering concurrent enhancement in spatial resolution and detection sensitivity: a simulation study. <i>Physics in Medicine and Biology</i> , 2020 , 65, 045013	3.8	10
341	CT is still not a low-dose imaging modality. <i>Medical Physics</i> , 2020 , 47, 293-296	4.4	12
340	Development of a nonhuman primate computational phantom for radiation dosimetry. <i>Medical Physics</i> , 2020 , 47, 736-744	4.4	3
339	Advances in Preclinical PET Instrumentation. <i>PET Clinics</i> , 2020 , 15, 403-426	2.2	8
338	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
337	Towards quantitative small-animal imaging on hybrid PET/CT and PET/MRI systems. <i>Clinical and Translational Imaging</i> , 2020 , 8, 243-263	2	5

336	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
335	Radiomics for classification of bone mineral loss: A machine learning study. <i>Diagnostic and Interventional Imaging</i> , 2020 , 101, 599-610	5.4	33
334	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> , 2020 , 41, 837-840	1.6	4
333	In the future, emission-guided radiation therapy will play a critical role in clinical radiation oncology. <i>Medical Physics</i> , 2019 , 46, 1519-1522	4.4	1
332	The eventual rejection of the linear no-threshold theory will lead to a drastic reduction in the demand for diagnostic medical physics services. <i>Medical Physics</i> , 2019 , 46, 3325-3328	4.4	1
331	Estimation of the radiation dose in pregnancy: an automated patient-specific model using convolutional neural networks. <i>European Radiology</i> , 2019 , 29, 6805-6815	8	8
330	MRI-linac systems will replace conventional IGRT systems within 15 years. <i>Medical Physics</i> , 2019 , 46, 3753-3756	4.4	10
329	Impact of Tissue Classification in MRI-Guided Attenuation Correction on Whole-Body Patlak PET/MRI. <i>Molecular Imaging and Biology</i> , 2019 , 21, 1147-1156	3.8	1
328	Gonadal shielding should be discontinued for most diagnostic imaging exams. <i>Medical Physics</i> , 2019 , 46, 1111-1114	4.4	12
327	Construction of patient-specific computational models for organ dose estimation in radiological imaging. <i>Medical Physics</i> , 2019 , 46, 2403-2411	4.4	5
326	Conceptual design of a large pixelated CZT detector with four-hole collimator matched pixel detector for SPECT imaging: a Monte Carlo simulation study. <i>Journal of Instrumentation</i> , 2019 , 14, P02026-P02026	4.4	1
325	Does whole-body Patlak F-FDG PET imaging improve lesion detectability in clinical oncology?. <i>European Radiology</i> , 2019 , 29, 4812-4821	8	21
324	Quantitative Analysis of Heterogeneous [F]FDG Static (SUV) vs. Patlak (Ki) Whole-body PET Imaging Using Different Segmentation Methods: a Simulation Study. <i>Molecular Imaging and Biology</i> , 2019 , 21, 317-327	3.8	11
323	Suspicion of appendicitis in pregnant women: emergency evaluation by sonography and low-dose CT with oral contrast. <i>European Radiology</i> , 2019 , 29, 345-352	8	13
322	MCNP-FBSM: Development of MCNP/MCNPX Source Model for Simulation of Multi-Slice Fan-Beam X-Ray CT Scanners 2019 ,		1
321	A Novel Method for Measuring the MTF of CT Scanners: A Phantom Study 2019 ,		5
320	PET-CT in neuroradiology. <i>Clinical and Translational Neuroscience</i> , 2019 , 3, 2514183X1986814	0.9	1
319	Fast and accurate pseudo multispectral technique for whole-brain MRI tissue classification. <i>Physics in Medicine and Biology</i> , 2019 , 64, 145005	3.8	2

318	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
317	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
316	Voxel-based dosimetry is superior to mean absorbed dose approach for establishing dose-effect relationship in targeted radionuclide therapy. <i>Medical Physics</i> , 2019 , 46, 5403-5406	4.4	10
315	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
314	Personalized dosimetry is a must for appropriate molecular radiotherapy. <i>Medical Physics</i> , 2019 , 46, 4713-4716	4.4	7
313	A novel convolutional neural network with high convergence rate: Application to CT synthesis from MR images 2019 ,		2
312	Deep learning-guided attenuation and scatter correction without using anatomical images in brain PET/MRI 2019 ,		5
311	Three-dimensional shape completion using deep convolutional neural networks: Application to truncation compensation and metal artifact reduction in PET/MRI attenuation correction 2019 ,		1
310	Accurate estimation of depth of interaction in PET on monolithic crystal coupled to SiPMs using a deep neural network and Monte Carlo simulations 2019 ,		3
309	Design and construction of a variable resolution cone-beam small animal mini-CT prototype for in vivo studies. <i>Radiation Physics and Chemistry</i> , 2019 , 162, 199-207	2.5	3
308	Single-Photon Emission Computed Tomography: Principles and Applications 2019 , 493-506		0
307	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
306	Development of a Library of Adult Computational Phantoms Based on Anthropometric Indexes. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2019 , 3, 65-75	4.2	12
305	Patient-Specific Computational Model and Dosimetry Calculations for PET/CT of a Patient Pregnant with Twins. <i>Journal of Nuclear Medicine</i> , 2018 , 59, 1451-1458	8.9	5
304	Data-driven motion correction will replace motion-tracking devices in molecular imaging-guided radiation therapy treatment planning. <i>Medical Physics</i> , 2018 , 45, 3477	4.4	0
303	PET/MRI: Reliability/Reproducibility of SUV Measurements 2018 , 97-114		
302	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
301	Robustness of post-reconstruction and direct kinetic parameter estimates under rigid head motion in dynamic brain PET imaging. <i>Physica Medica</i> , 2018 , 53, 40-55	2.7	0

300	Radiogenomics is the future of treatment response assessment in clinical oncology. <i>Medical Physics</i> , 2018 , 45, 4325-4328	4.4	5
299	Accuracy of whole-body HDP SPECT/CT, FDG PET/CT, and their combination for detecting bone metastases in breast cancer: an intra-personal comparison. <i>American Journal of Nuclear Medicine and Molecular Imaging</i> , 2018 , 8, 159-168	2.2	3
298	Towards enhanced PET quantification in clinical oncology. <i>British Journal of Radiology</i> , 2018 , 91, 201705084	3.4	43
297	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
296	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
295	Comparison of synthetic CT generation algorithms for MRI-only radiation planning in the pelvic region 2018 ,		4
294	2018 ,		1
293	Robust selective weighted field mapping using multi-echo gradient echo-based MRI. <i>Physics in Medicine and Biology</i> , 2018 , 63, 215002	3.8	
292	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
291	Whole-body parametric PET imaging will replace conventional image-derived PET metrics in clinical oncology. <i>Medical Physics</i> , 2018 , 45, 5355-5358	4.4	4
290	Novel Quantitative PET Techniques for Clinical Decision Support in Oncology. <i>Seminars in Nuclear Medicine</i> , 2018 , 48, 548-564	5.4	18
289	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
288	Spatially-guided non-local mean filter for denoising of clinical whole-body PET images 2018 ,		1
287	A Monte Carlo simulation study of the impact of novel scintillation crystals on performance characteristics of PET scanners. <i>Physica Medica</i> , 2018 , 50, 37-45	2.7	9
286	Current commercial techniques for MRI-guided attenuation correction are insufficient and will limit the wider acceptance of PET/MRI technology in the clinic. <i>Medical Physics</i> , 2018 , 45, 4007	4.4	9
285	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
284	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
283	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

282	Mixed model phase evolution for correction of magnetic field inhomogeneity effects in 3D quantitative gradient echo-based MRI. <i>Medical Physics</i> , 2017 , 44, 3739-3751	4.4	2
281	Long-term Results of a Comparative PET/CT and PET/MRI Study of 11C-Acetate and 18F-Fluorocholine for Restaging of Early Recurrent Prostate Cancer. <i>Clinical Nuclear Medicine</i> , 2017 , 42, e242-e246	1.7	14
280	Computational hybrid anthropometric paediatric phantom library for internal radiation dosimetry. <i>Physics in Medicine and Biology</i> , 2017 , 62, 3263-3283	3.8	11
279	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
278	Joint Optimization of Kinetic Modelling and CBM Acquisition Parameters in Hybrid Whole-Body Dynamic PET Imaging 2017 ,		1
277	MR-guided joint reconstruction of activity and attenuation in brain PET-MR. <i>NeuroImage</i> , 2017 , 162, 276-288	2.8	16
276	Effects of body habitus on internal radiation dose calculations using the 5-year-old anthropomorphic male models. <i>Physics in Medicine and Biology</i> , 2017 , 62, 6185-6206	3.8	4
275	Comparison of atlas-based techniques for whole-body bone segmentation. <i>Medical Image Analysis</i> , 2017 , 36, 98-112	15.4	18
274	Quantitative PET image reconstruction employing nested expectation-maximization deconvolution for motion compensation. <i>Computerized Medical Imaging and Graphics</i> , 2017 , 60, 11-21	7.6	11
273	FDG PET/MR Imaging in Major Neurocognitive Disorders. <i>Current Alzheimer Research</i> , 2017 , 14, 186-197	3	10
272	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
271	Hybrid whole-body dynamic TOF PET imaging for simultaneous estimation of compartmental and patlak parametric maps from continuous bed motion data 2016 ,		2
270	Development of computational pregnant female and fetus models and assessment of radiation dose from positron-emitting tracers. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2016 , 43, 2290-2300	8.8	10
269	The Promise of Hybrid PET/MRI: Technical advances and clinical applications. <i>IEEE Signal Processing Magazine</i> , 2016 , 33, 67-85	9.4	24
268	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
267	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
266	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
265	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

264	Development of computational small animal models and their applications in preclinical imaging and therapy research. <i>Medical Physics</i> , 2016 , 43, 111	4.4	10
263	Direct 4D slice-wise whole-body parametric PET image reconstruction for continuous bed motion acquisitions 2016 ,		3
262	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
261	Generic and robust method for automatic segmentation of PET images using an active contour model. <i>Medical Physics</i> , 2016 , 43, 4483	4.4	14
260	Assessment of metal artifact reduction methods in pelvic CT. <i>Medical Physics</i> , 2016 , 43, 1588	4.4	13
259	Whole-body bone segmentation from MRI for PET/MRI attenuation correction using shape-based averaging. <i>Medical Physics</i> , 2016 , 43, 5848	4.4	8
258	Evaluating the Application of Tissue-Specific Dose Kernels Instead of Water Dose Kernels in Internal Dosimetry: A Monte Carlo Study. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2016 , 31, 367-379 ^{3.9}		14
257	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
256	Impact of time-of-flight on indirect 3D and direct 4D parametric image reconstruction in the presence of inconsistent dynamic PET data. <i>Physics in Medicine and Biology</i> , 2016 , 61, 3443-71	3.8	5
255	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
254	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
253	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
252	Monte Carlo-based assessment of the trade-off between spatial resolution, field-of-view and scattered radiation in the variable resolution X-ray CT scanner. <i>Physica Medica</i> , 2015 , 31, 510-6	2.7	3
251	Assessment of radiation dose in nuclear cardiovascular imaging using realistic computational models. <i>Medical Physics</i> , 2015 , 42, 2955-66	4.4	5
250	Dopaminergic denervation is not necessary to induce gait disorders in atypical parkinsonian syndrome. <i>Journal of the Neurological Sciences</i> , 2015 , 351, 127-132	3.2	6
249	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
248	Qualitative and Quantitative Evaluation of Blob-Based Time-of-Flight PET Image Reconstruction in Hybrid Brain PET/MR Imaging. <i>Molecular Imaging and Biology</i> , 2015 , 17, 704-13	3.8	8
247	Numerical Simpson's Rule for Real Time and Accurate T2* maps generation Using 3D Quantitative GRE. <i>IFMBE Proceedings</i> , 2015 , 107-110	0.2	2

246	Improvement of Pseudo Multispectral Classification of Brain MR Images. <i>IFMBE Proceedings</i> , 2015 , 111-114		
245	Unwrapping highly wrapped phase using Nonlinear Multi Echo phase unwrapping. <i>IFMBE Proceedings</i> , 2015 , 115-118	0.2	2
244	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
243	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
242	Fast atlas-based MRI-guided PET attenuation map generation in whole-body PET/MR imaging 2015 ,		1
241	2015 ,		7
240	Multi-bed tracer kinetic imaging of micro-parameters from dynamic time-of-flight PET data 2015 ,		1
239	Clinical evaluation of direct 4D whole-body PET parametric imaging with time-of-flight and resolution modeling capabilities 2015 ,		2
238	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
237	⁹⁰ Yttrium PET/MR-based dosimetry after liver radioembolization (SIRT). <i>Clinical Nuclear Medicine</i> , 2015 , 40, 355-7	1.7	2
236	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
235	Quantifying [¹⁸ F]fluorodeoxyglucose uptake in the arterial wall: the effects of dual time-point imaging and partial volume effect correction. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2015 , 42, 1414-22	8.8	14
234	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
233	Evaluation of radiation dose to anthropomorphic paediatric models from positron-emitting labelled tracers. <i>Physics in Medicine and Biology</i> , 2014 , 59, 1165-87	3.8	9
232	Effect of respiratory motion on internal radiation dosimetry. <i>Medical Physics</i> , 2014 , 41, 112506	4.4	9
231	A 5D computational phantom for pharmacokinetic simulation studies in dynamic emission tomography. <i>Computerized Medical Imaging and Graphics</i> , 2014 , 38, 764-73	7.6	2
230	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
229	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

228	Improved nuclear medicine uniformity assessment with noise texture analysis. <i>Journal of Nuclear Medicine</i> , 2014 , 55, 169-74	8.9	6
227	MR constrained simultaneous reconstruction of activity and attenuation maps in brain TOF-PET/MR imaging. <i>EJNMMI Physics</i> , 2014 , 1, A55	4.4	5
226	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
225	Scatter characterization and correction for simultaneous multiple small-animal PET imaging. <i>Molecular Imaging and Biology</i> , 2014 , 16, 199-209	3.8	11
224	The effect of metal artefact reduction on CT-based attenuation correction for PET imaging in the vicinity of metallic hip implants: a phantom study. <i>Annals of Nuclear Medicine</i> , 2014 , 28, 540-50	2.5	6
223	Derivation of attenuation map for attenuation correction of PET data in the presence of nanoparticulate contrast agents using spectral CT imaging. <i>Annals of Nuclear Medicine</i> , 2014 , 28, 559-70	2.5	2
222	Trends in PET quantification: opportunities and challenges. <i>Clinical and Translational Imaging</i> , 2014 , 2, 183-185	2	6
221	2014 ,		4
220	Impact of acquisition time-window on clinical whole-body PET parametric imaging 2014 ,		15
219	MRI-based pseudo-CT generation using sorted atlas images in whole-body PET/MRI 2014 ,		3
218	Introducing time-of-flight and resolution recovery image reconstruction to clinical whole-body PET parametric imaging 2014 ,		10
217	PD-0418: Development of a software platform for evaluating automatic PET segmentation methods. <i>Radiotherapy and Oncology</i> , 2014 , 111, S166	5.3	4
216	Dual-Modality Preclinical PET/CT Instrumentation 2014 , 367-386		
215	Experimental evaluation and basis function optimization of the spatially variant image-space PSF on the Ingenuity PET/MR scanner. <i>Medical Physics</i> , 2014 , 41, 062501	4.4	4
214	Isotope specific resolution recovery image reconstruction in high resolution PET imaging. <i>Medical Physics</i> , 2014 , 41, 052503	4.4	8
213	Applications of Small-Animal Imaging in Neurology and Psychiatry 2014 , 517-546		1
212	Application of adaptive kinetic modelling for bias propagation reduction in direct 4D image reconstruction. <i>Physics in Medicine and Biology</i> , 2014 , 59, 6061-84	3.8	9
211	Generalized 3D and 4D motion compensated whole-body PET image reconstruction employing nested EM deconvolution 2014 ,		4

210	Classification of bones from MR images in torso PET-MR imaging using a statistical shape model. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 734, 196-200	1.2	4
209	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
208	Quantification of Small-Animal Imaging Data 2014 , 467-494		1
207	Advances in Technological Design to Optimize Exposure and Improve Image Quality 2014 , 177-202		
206	Multimodality Molecular Imaging: A Futuristic Outlook 2014 , 753-760		
205	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
204	Effect of emaciation and obesity on small-animal internal radiation dosimetry for positron-emitting radionuclides. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013 , 40, 1748-59	8.8	3
203	TEP/IRM hybride en neuro-imagerie. <i>Medecine Nucleaire</i> , 2013 , 37, 561-566	0.1	
202	Combined Modalities of Compton Scattering Tomography. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 1570-1577	1.7	7
201	Computed tomography calcium score scan for attenuation correction of N-13 ammonia cardiac positron emission tomography: effect of respiratory phase and registration method. <i>International Journal of Cardiovascular Imaging</i> , 2013 , 29, 1351-60	2.5	8
200	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
199	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
198	A pivotal time for hybrid PET/MR imaging technology. <i>Journal of the American College of Radiology</i> , 2013 , 10, 878-81	3.5	2
197	Four-Dimensional Image Reconstruction Strategies in Cardiac-Gated and Respiratory-Gated PET Imaging. <i>PET Clinics</i> , 2013 , 8, 51-67	2.2	32
196	Smoothly clipped absolute deviation (SCAD) regularization for compressed sensing MRI using an augmented Lagrangian scheme. <i>Magnetic Resonance Imaging</i> , 2013 , 31, 1399-411	3.3	9
195	Novel Quantitative Techniques in Hybrid (PET-MR) Imaging of Brain Tumors. <i>PET Clinics</i> , 2013 , 8, 219-32	2.2	4
194	Attenuation Correction Strategies for Positron Emission Tomography/Computed Tomography and 4-Dimensional Positron Emission Tomography/Computed Tomography. <i>PET Clinics</i> , 2013 , 8, 37-50	2.2	7
193	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

192	Assessment of S values in stylized and voxel-based rat models for positron-emitting radionuclides. <i>Molecular Imaging and Biology</i> , 2013 , 15, 542-51	3.8	7
191	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
190	K-edge ratio method for identification of multiple nanoparticulate contrast agents by spectral CT imaging. <i>British Journal of Radiology</i> , 2013 , 86, 20130308	3.4	11
189	Amyloid- β positron emission tomography imaging probes: a critical review. <i>Journal of Alzheimer's Disease</i> , 2013 , 36, 613-31	4.3	56
188	Novel multimodality segmentation using level sets and Jensen-Rényi divergence. <i>Medical Physics</i> , 2013 , 40, 121908	4.4	13
187	PET/MR imaging: technical aspects and potential clinical applications. <i>Radiology</i> , 2013 , 267, 26-44	20.5	172
186	Contourlet-based active contour model for PET image segmentation. <i>Medical Physics</i> , 2013 , 40, 082507	4.4	40
185	Age-Dependent Small-Animal Internal Radiation Dosimetry. <i>Molecular Imaging</i> , 2013 , 12, 7290.2013.000537	5.3	8
184	Evaluation of whole-body MR to CT deformable image registration. <i>Journal of Applied Clinical Medical Physics</i> , 2013 , 14, 4163	2.3	32
183	Clinical applications of hybrid PET/MRI in neuroimaging. <i>Clinical Nuclear Medicine</i> , 2013 , 38, e13-8	1.7	70
182	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
181	An ordered-subsets proximal preconditioned gradient algorithm for edge-preserving PET image reconstruction. <i>Medical Physics</i> , 2013 , 40, 052503	4.4	6
180	Pediatric radiation dosimetry for positron-emitting radionuclides using anthropomorphic phantoms. <i>Medical Physics</i> , 2013 , 40, 102502	4.4	19
179	SU-E-J-109: Registration/Segmentation for Adaptive Radiotherapy Using the Jensen Renyi Divergence. <i>Medical Physics</i> , 2013 , 40, 175-175	4.4	
178	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
177	A cone-shaped phantom for assessment of small animal PET scatter fraction and count rate performance. <i>Molecular Imaging and Biology</i> , 2012 , 14, 561-71	3.8	5
176	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
175	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

174	Applications cliniques de l'imagerie hybride TEP-IRM. <i>Medecine Nucleaire</i> , 2012 , 36, 605-614	0.1	1
173	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
172	Evaluation of S-values and dose distributions for (90)Y, (131)I, (166)Ho, and (188)Re in seven lobes of the rat liver. <i>Medical Physics</i> , 2012 , 39, 1462-72	4.4	8
171	Metal artifact reduction strategies for improved attenuation correction in hybrid PET/CT imaging. <i>Medical Physics</i> , 2012 , 39, 3343-60	4.4	59
170	Impact of 18F-FDG PET/CT on target volume delineation in recurrent or residual gynaecologic carcinoma. <i>Radiation Oncology</i> , 2012 , 7, 176	4.2	6
169	Artificial Neural Network-Statistical Approach for PET Volume Analysis and Classification. <i>Advances in Fuzzy Systems</i> , 2012 , 2012, 1-10	1.7	1
168	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
167	Smoothly clipped absolute deviation (SCAD) regularization for compressed sensing MRI using an augmented Lagrangian scheme 2012 ,		1
166	Direct parametric reconstruction for dynamic [18F]-FDG PET/CT imaging in the body 2012 ,		4
165	The effect of breathing irregularities on quantitative accuracy of respiratory gated PET/CT. <i>Medical Physics</i> , 2012 , 39, 7390-7	4.4	20
164	Application of adaptive kinetic modeling for bias propagation reduction in direct 4D image reconstruction 2012 ,		3
163	Isotope dependent system matrices for high resolution PET imaging 2012 ,		1
162	Deformable model-based PET segmentation for heterogeneous tumor volume delineation 2012 ,		1
161	A novel energy mapping approach for CT-based attenuation correction in PET. <i>Medical Physics</i> , 2012 , 39, 2078-89	4.4	9
160	SU-D-217A-03: Nuclear Medicine Uniformity Assessment Using 2D Noise Power Spectrum. <i>Medical Physics</i> , 2012 , 39, 3621	4.4	
159	Neuroreceptor Imaging. <i>Advances in Neurobiology</i> , 2012 , 305-329	2.1	1
158	Recent Advances in Hybrid Imaging for Radiation Therapy Planning: The Cutting Edge. <i>PET Clinics</i> , 2011 , 6, 207-26	2.2	2
157	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

156	Assessment of scatter for the micro-CT subsystem of the trimodality FLEX Triumph preclinical scanner. <i>Medical Physics</i> , 2011 , 38, 4154-65	4.4	6
155	Quantitative Techniques in PET-CT Imaging. <i>Current Medical Imaging</i> , 2011 , 7, 216-233	1.2	14
154	B-spline based free form deformation thoracic non-rigid registration of CT and PET images 2011 ,		4
153	Novel detector design for reducing intercell x-ray cross-talk in the variable resolution x-ray CT scanner: a Monte Carlo study. <i>Medical Physics</i> , 2011 , 38, 1389-96	4.4	4
152	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
151	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
150	[¹¹ C]acetate PET/CT visualizes skeletal muscle exercise participation, impaired function, and recovery after hip arthroplasty; first results. <i>Molecular Imaging and Biology</i> , 2011 , 13, 793-9	3.8	4
149	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
148	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
147	[¹⁸ F] 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
146	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
145	Breathing adapted radiotherapy: a 4D gating software for lung cancer. <i>Radiation Oncology</i> , 2011 , 6, 78	4.2	4
144	Metal artifact reduction in CT-based attenuation correction of PET using sobolev sinogram restoration 2011 ,		3
143	CT-Based Attenuation Correction on the FLEX Triumph Preclinical PET/CT Scanner. <i>IEEE Transactions on Nuclear Science</i> , 2011 , 58, 66-75	1.7	10
142	Atlas-guided automated analysis of small-animal PET studies 2011 ,		1
141	Sparsity constrained sinogram inpainting for metal artifact reduction in x-ray computed tomography 2011 ,		6
140	NEMA NU-04-based performance characteristics of the LabPET-8 small animal PET scanner. <i>Physics in Medicine and Biology</i> , 2011 , 56, 6649-64	3.8	40
139	Accurate Monte Carlo modeling and performance assessment of the X-PET subsystem of the FLEX triumph preclinical PET/CT scanner. <i>Medical Physics</i> , 2011 , 38, 1217-25	4.4	14

138	Clough-Tocher interpolation of virtual sinogram in a Delaunay triangulated grid for metal artifact reduction of PET/CT images 2011 ,			1
137	2011 ,			1
136	2011 ,			2
135	Characterization of scattered radiation profile in volumetric 64 slice CT scanner: Monte Carlo study using GATE 2011 ,			1
134	An outlook on future design of hybrid PET/MRI systems. <i>Medical Physics</i> , 2011 , 38, 5667-89	4.4		148
133	Impact of using different tissue classes on the accuracy of MR-based attenuation correction in PET-MRI 2011 ,			6
132	Scattered radiation emission imaging: principles and applications. <i>International Journal of Biomedical Imaging</i> , 2011 , 2011, 913893	5.2		18
131	Assessment of Biological Target Volume Using Positron Emission Tomography in High-Grade Glioma Patients 2011 , 131-141			
130	Combined evaluation of myocardial perfusion and coronary morphology in the identification of subclinical CAD. Radiation exposure of ¹³ N-ammonia PET/CT. <i>Nuklearmedizin - NuclearMedicine</i> , 2010 , 49, 173-82	1.8		3
129	A new method for experimental characterisation of scattered radiation in 64-slice CT scanner. <i>Biomedical Imaging and Intervention Journal</i> , 2010 , 6, e3			
128	Quantifying the effect of anode surface roughness on diagnostic x-ray spectra using Monte Carlo simulation. <i>Medical Physics</i> , 2010 , 37, 742-52	4.4		7
127	3D Oncological PET volume analysis using CNN and LVQNN 2010 ,			1
126	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
125	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
124	On the v-line radon transform and its imaging applications. <i>International Journal of Biomedical Imaging</i> , 2010 , 2010,	5.2		31
123	Artificial Neural Network-Based System for PET Volume Segmentation. <i>International Journal of Biomedical Imaging</i> , 2010 , 2010,	5.2		23
122	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
121	Structure-Function-Based Quantitative Brain Image Analysis. <i>PET Clinics</i> , 2010 , 5, 155-68	2.2		8

120	A novel fuzzy C-means algorithm for unsupervised heterogeneous tumor quantification in PET. <i>Medical Physics</i> , 2010 , 37, 1309-24	4.4	143
119	CT2MCNP: An Integrated Package for Constructing Patient-Specific Voxel-Based Phantoms Dedicated for MCNP(X) Monte Carlo Code. <i>IFMBE Proceedings</i> , 2010 , 319-322	0.2	
118	Compton scattered imaging based on the V-line radon transform and its medical imaging applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4300-3	0.9	
117	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
116	Coronary calcium score scan-based attenuation correction in cardiovascular PET imaging. <i>Nuclear Medicine Communications</i> , 2010 , 31, 780-7	1.6	4
115	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
114	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
113	PET-guided prostate cancer radiotherapy: technological innovations for dose delivery optimisation. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2010 , 37, 1426-9	8.8	1
112	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
111	SU-GG-I-102: Comparative Methods for PET Image Segmentation in Pharyngolaryngeal Squamous Cell Carcinoma. <i>Medical Physics</i> , 2010 , 37, 3124-3125	4.4	
110	CT-based attenuation correction on the FLEX Triumph [®] preclinical PET/CT scanner 2009 ,		1
109	The Influence of X-Ray Spectra Filtration on Image Quality and Patient Dose in the GE VCT 64-Slice Cardiac CT Scanner 2009 ,		2
108	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
107	. <i>Proceedings of the IEEE</i> , 2009 , 97, 1935-1937	14.3	2
106	. <i>Proceedings of the IEEE</i> , 2009 , 97, 1938-1953	14.3	40
105	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
104	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
103	Evolution and Developments in Instrumentation for Positron Emission Mammography. <i>PET Clinics</i> , 2009 , 4, 317-27	2.2	8

102	Molecular PET/CT imaging-guided radiation therapy treatment planning. <i>Academic Radiology</i> , 2009 , 16, 1108-33	4.3	56
101	On a Novel Approach to Compton Scattered Emission Imaging. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 1430-1437	1.7	9
100	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
99	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
98	Advances in multimodality molecular imaging. <i>Journal of Medical Physics</i> , 2009 , 34, 122-8	0.7	35
97	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
96	Comparative Assessment of Different Energy Mapping Approaches in CT Based Attenuation Correction: a Patient Study. <i>IFMBE Proceedings</i> , 2009 , 496-499	0.2	1
95	Monte Carlo Assessment of Geometric, Scatter and Septal Penetration Components in DST-XLi HEGP Collimator. <i>IFMBE Proceedings</i> , 2009 , 2479-2482	0.2	2
94	Reduction of Intravenous Contrast Related Artifacts in CT-Based Attenuation Corrected PET Images. <i>IFMBE Proceedings</i> , 2009 , 513-516	0.2	
93	Preclinical Multimodality Imaging in Vivo. <i>PET Clinics</i> , 2008 , 3, 251-73	2.2	20
92	The Clinical Role of Fusion Imaging Using PET, CT, and MR Imaging. <i>PET Clinics</i> , 2008 , 3, 275-91	2.2	9
91	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
90	PET versus SPECT: strengths, limitations and challenges. <i>Nuclear Medicine Communications</i> , 2008 , 29, 193-207	1.6	536
89	Towards a new concept for high sensitivity Compton scatter emission imaging. <i>Journal of the European Optical Society-Rapid Publications</i> , 2008 , 3,	2.5	3
88	Medical physics in developing countries: looking for a better world. <i>Biomedical Imaging and Intervention Journal</i> , 2008 , 4, e29		11
87	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
86	[(18)F]Fluoroethyltyrosine- positron emission tomography-guided radiotherapy for high-grade glioma. <i>Radiation Oncology</i> , 2008 , 3, 44	4.2	91
85	A Novel Approach for Experimental Measurement of Scatter Profile and Scatter to Primary Ratio in 64-Slice CT Scanner. <i>IFMBE Proceedings</i> , 2008 , 473-477	0.2	1

84	New Concepts for Assessing Global Organ Function and Disease Activity Based on Combined PET and Structural Imaging Techniques. <i>PET Clinics</i> , 2007 , 2, 279-87	2.2	
83	Scatter Compensation Techniques in PET. <i>PET Clinics</i> , 2007 , 2, 219-34	2.2	47
82	Current Trends in Preclinical PET System Design. <i>PET Clinics</i> , 2007 , 2, 125-60	2.2	63
81	Strategies for Motion Tracking and Correction in PET. <i>PET Clinics</i> , 2007 , 2, 251-66	2.2	99
80	Advances in PET Image Reconstruction. <i>PET Clinics</i> , 2007 , 2, 173-90	2.2	81
79	Advances in Attenuation Correction Techniques in PET. <i>PET Clinics</i> , 2007 , 2, 191-217	2.2	34
78	Current Trends in PET and Combined (PET/CT and PET/MR) Systems Design. <i>PET Clinics</i> , 2007 , 2, 109-23	2.2	22
77	Quantitative analysis of template-based attenuation compensation in 3D brain PET. <i>Computerized Medical Imaging and Graphics</i> , 2007 , 31, 28-38	7.6	14
76	Impact of X-ray tube settings and metallic leads on neurological PET imaging when using CT-based attenuation correction. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007 , 571, 411-414	1.2	3
75	¹⁸ F-choline and/or ¹¹ C-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
74	(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
73	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
72	A hybrid approach for fast simulation of X-ray computed tomography 2007 ,		4
71	The Mathematical Foundations of 3D Compton Scatter Emission Imaging. <i>International Journal of Biomedical Imaging</i> , 2007 , 2007, 92780	5.2	27
70	2007 ,		1
69	Impact of x-ray tube voltage, field size and object thickness on scattered radiation distribution in diagnostic radiology: A Monte Carlo investigation 2007 ,		2
68	Correction of oral contrast artifacts in CT-based attenuation correction of PET images using an automated segmentation algorithm 2007 ,		1
67	Novel approach to stationary transmission scanning using Compton scattered radiation. <i>Physics in Medicine and Biology</i> , 2007 , 52, 4615-32	3.8	4

66	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
65	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
64	Is MR-guided attenuation correction a viable option for dual-modality PET/MR imaging?. <i>Radiology</i> , 2007 , 244, 639-42	20.5	76
63	2007 ,		2
62	Strategies for attenuation compensation in neurological PET studies. <i>NeuroImage</i> , 2007 , 34, 518-41	7.9	34
61	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
60	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
59	Tracer Kinetic Modeling in PET. <i>PET Clinics</i> , 2007 , 2, 267-77	2.2	52
58	Clinical and Research Applications of Quantitative PET Imaging. <i>PET Clinics</i> , 2007 , 2, 161-72	2.2	5
57	Partial Volume Correction Strategies in PET. <i>PET Clinics</i> , 2007 , 2, 235-49	2.2	127
56	Comparative Study of Time-Frequency Methods for the Detection and Categorization of Intermittent Faults in Electrical Drives 2007 ,		2
55	New Frontiers in Quantitative Molecular Imaging using PET 2007 , 1659-1662		
54	Optimisation of whole-body PET/CT scanning protocols. <i>Biomedical Imaging and Intervention Journal</i> , 2007 , 3, e36		3
53	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
52	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
51	Functional segmentation of dynamic nuclear images by cross-psi B-energy operator. <i>Computer Methods and Programs in Biomedicine</i> , 2006 , 84, 146-52	6.9	12
50	Dual-Modality Imaging: More Than the Sum of its Components 2006 , 35-81		8
49	Impact of X-ray Scatter When Using CT-based Attenuation Correction in PET: A Monte Carlo Investigation 2006 ,		1

48	Image Segmentation Techniques in Nuclear Medicine Imaging 2006 , 308-357		13
47	Correction for Partial Volume Effects in Emission Tomography 2006 , 236-271		10
46	Attenuation Correction Strategies in Emission Tomography 2006 , 167-204		8
45	Iterative Reconstruction Methods 2006 , 107-140		17
44	Overview of Nuclear Medical Imaging: Physics and Instrumentation 2006 , 1-34		5
43	Quantitative Analysis in Functional Brain Imaging 2006 , 435-470		2
42	The New Challenges of Brain PET Imaging Technology. <i>Current Medical Imaging</i> , 2006 , 2, 3-13	1.2	22
41	Monte Carlo Modeling in Nuclear Medicine Imaging 2006 , 358-390		1
40	Recent developments and future trends in nuclear medicine instrumentation. <i>Zeitschrift Fur Medizinische Physik</i> , 2006 , 16, 5-17	7.6	35
39	Tracer Kinetic Modeling in Nuclear Medicine: Theory and Applications 2006 , 391-413		3
38	An event driven read-out system for a novel PET scanner with Compton enhanced 3-D gamma reconstruction. <i>IEEE Transactions on Nuclear Science</i> , 2006 , 53, 1156-1161	1.7	1
37	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
36	Assessment of 18F-FDG-leukocyte imaging to monitor rejection after pancreatic islet transplantation. <i>Transplantation Proceedings</i> , 2006 , 38, 3033-4	1.1	11
35	Scatter Correction Strategies in Emission Tomography 2006 , 205-235		9
34	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
33	Methods for Planar Image Quantification 2006 , 414-434		1
32	The quest for the ideal anato-molecular imaging fusion tool. <i>Biomedical Imaging and Intervention Journal</i> , 2006 , 2, e47		7
31	Atlas-guided non-uniform attenuation correction in cerebral 3D PET imaging. <i>NeuroImage</i> , 2005 , 25, 278-86		67

30	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
29	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
28	Positron-emission tomography imaging of early events after transplantation of islets of Langerhans. <i>Transplantation</i> , 2005 , 79, 353-5	1.8	65
27	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
26	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
25	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
24	Scatter modelling and compensation in emission tomography. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2004 , 31, 761-82	8.8	152
23	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
22	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
21	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
20	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
19	Determination of the attenuation map in emission tomography. <i>Journal of Nuclear Medicine</i> , 2003 , 44, 291-315	8.9	191
18	Which attenuation coefficient to use in combined attenuation and scatter corrections for quantitative brain SPET?. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2002 , 29, 967-9; author reply 969-70	8.8	10
17	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
16	Scatter modelling and correction strategies in fully 3-D PET. <i>Nuclear Medicine Communications</i> , 2001 , 22, 1181-4	1.6	37
15	Development of new mixed Lu ₂ (RE ₃ +)1:YAP: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
14	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
13	Addendum to "Relevance of accurate Monte Carlo modeling in nuclear medical imaging" [Med. Phys. 26, 574-608 (1999)]. <i>Medical Physics</i> , 2000 , 27, 816-7	4.4	4

12	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
11	Relevance of accurate Monte Carlo modeling in nuclear medical imaging. <i>Medical Physics</i> , 1999 , 26, 574-608	1.1	168
10	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
9	Improvement of the performance and accuracy of PET Monte Carlo simulations 1999 ,		2
8	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
7	Organ volume estimation using SPECT. <i>IEEE Transactions on Nuclear Science</i> , 1996 , 43, 2174-2182	1.7	12
6	Comparative methods for quantifying thyroid volume using planar imaging and SPECT. <i>Journal of Nuclear Medicine</i> , 1996 , 37, 1421-6	8.9	16
5	Comparative assessment of different computational models for generation of X-ray spectra in diagnostic radiology and mammography		3
4	Statistical reconstruction-based scatter correction: a new method for 3D PET		1
3	Deep Learning-based Automated Delineation of Head and Neck Malignant Lesions from PET Images		2
2	Towards optimal model-based partial volume effect correction in oncological PET imaging		2
1	COLI-NET: Fully Automated COVID-19 Lung and Infection Pneumonia Lesion Detection and Segmentation from Chest CT Images		3