

Paul Eugene Kinahan

List of Publications by Citations

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271
papers

13,367
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112
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307
ext. papers

16,057
ext. citations

4.9
avg, IF

6.78
L-index

#	Paper	IF	Citations
271	Radiomics: Images Are More than Pictures, They Are Data. <i>Radiology</i> , 2016 , 278, 563-77	20.5	3149
270	Attenuation correction for a combined 3D PET/CT scanner. <i>Medical Physics</i> , 1998 , 25, 2046-53	4.4	632
269	Amphetamine-induced dopamine release in human ventral striatum correlates with euphoria. <i>Biological Psychiatry</i> , 2001 , 49, 81-96	7.9	573
268	Exact and approximate rebinning algorithms for 3-D PET data. <i>IEEE Transactions on Medical Imaging</i> , 1997 , 16, 145-58	11.7	542
267	. <i>IEEE Transactions on Nuclear Science</i> , 1989 , 36, 964-968	1.7	524
266	X-ray-based attenuation correction for positron emission tomography/computed tomography scanners. <i>Seminars in Nuclear Medicine</i> , 2003 , 33, 166-79	5.4	366
265	Positron emission tomography-computed tomography standardized uptake values in clinical practice and assessing response to therapy. <i>Seminars in Ultrasound, CT and MRI</i> , 2010 , 31, 496-505	1.7	333
264	Characterization of PET/CT images using texture analysis: the past, the present, any future?. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2017 , 44, 151-165	8.8	297
263	FDG-PET/CT imaging for preradiotherapy staging of head-and-neck squamous cell carcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 129-36	4	183
262	Brown Adipose Reporting Criteria in Imaging Studies (BARCIST 1.0): Recommendations for Standardized FDG-PET/CT Experiments in Humans. <i>Cell Metabolism</i> , 2016 , 24, 210-22	24.6	177
261	Clinically feasible reconstruction of 3D whole-body PET/CT data using blurred anatomical labels. <i>Physics in Medicine and Biology</i> , 2002 , 47, 1-20	3.8	174
260	The impact of respiratory motion on tumor quantification and delineation in static PET/CT imaging. <i>Physics in Medicine and Biology</i> , 2009 , 54, 7345-62	3.8	171
259	Combined PET/CT Imaging in Oncology. Impact on Patient Management. <i>Molecular Imaging and Biology</i> , 2000 , 3, 223-230		159
258	Application and evaluation of a measured spatially variant system model for PET image reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 938-49	11.7	152
257	Positron Emission Tomography: Current Challenges and Opportunities for Technological Advances in Clinical and Preclinical Imaging Systems. <i>Annual Review of Biomedical Engineering</i> , 2015 , 17, 385-414	12	129
256	Noise and signal properties in PSF-based fully 3D PET image reconstruction: an experimental evaluation. <i>Physics in Medicine and Biology</i> , 2010 , 55, 1453-73	3.8	127
255	Modeling and incorporation of system response functions in 3-D whole body PET. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 828-37	11.7	127

254	Clinical imaging characteristics of the positron emission mammography camera: PEM Flex Solo II. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 1666-75	8.9	119
253	Image analysis in patients with cancer studied with a combined PET and CT scanner. <i>Clinical Nuclear Medicine</i> , 2000 , 25, 905-10	1.7	119
252	The positron emission mammography/tomography breast imaging and biopsy system (PEM/PET): design, construction and phantom-based measurements. <i>Physics in Medicine and Biology</i> , 2008 , 53, 637-53	3.8	117
251	FDG-PET/CT-guided intensity modulated head and neck radiotherapy: a pilot investigation. <i>Head and Neck</i> , 2005 , 27, 478-87	4.2	103
250	Quantitative radiomics: impact of stochastic effects on textural feature analysis implies the need for standards. <i>Journal of Medical Imaging</i> , 2015 , 2, 041002	2.6	99
249	Quantitative imaging biomarkers: a review of statistical methods for computer algorithm comparisons. <i>Statistical Methods in Medical Research</i> , 2015 , 24, 68-106	2.3	99
248	Comparison of 3-D reconstruction with 3D-OSEM and with FORE+OSEM for PET. <i>IEEE Transactions on Medical Imaging</i> , 2001 , 20, 804-14	11.7	94
247	Variations of dynamic contrast-enhanced magnetic resonance imaging in evaluation of breast cancer therapy response: a multicenter data analysis challenge. <i>Translational Oncology</i> , 2014 , 7, 153-66	4.9	93
246	PET measures of amphetamine-induced dopamine release in ventral versus dorsal striatum. <i>Neuropsychopharmacology</i> , 1999 , 21, 694-709	8.7	93
245	Weight-based, low-dose pediatric whole-body PET/CT protocols. <i>Journal of Nuclear Medicine</i> , 2009 , 50, 1570-7	8.9	92
244	SUV varies with time after injection in (18)F-FDG PET of breast cancer: characterization and method to adjust for time differences. <i>Journal of Nuclear Medicine</i> , 2003 , 44, 1044-50	8.9	90
243	Tumor delineation using PET in head and neck cancers: threshold contouring and lesion volumes. <i>Medical Physics</i> , 2006 , 33, 4280-8	4.4	87
242	Quantitative Imaging in Cancer Clinical Trials. <i>Clinical Cancer Research</i> , 2016 , 22, 284-90	12.9	85
241	Evaluation of task-oriented performance of several fully 3D PET reconstruction algorithms. <i>Physics in Medicine and Biology</i> , 1994 , 39, 355-67	3.8	85
240	Variability in PET quantitation within a multicenter consortium. <i>Medical Physics</i> , 2010 , 37, 3660-6	4.4	83
239	Summary of the UPICT Protocol for 18F-FDG PET/CT Imaging in Oncology Clinical Trials. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 955-61	8.9	80
238	Cine CT for attenuation correction in cardiac PET/CT. <i>Journal of Nuclear Medicine</i> , 2007 , 48, 794-801	8.9	80
237	PM-04IN SILICO ANALYSIS OF AVAglio AND RTOG 0825 PHASE III CLINICAL TRIALS SUGGESTS SIGNATURES OF PATIENTS TO RECEIVE BENEFIT FROM COMBINED BEVACIZUMAB AND RADIATION THERAPIES. <i>Neuro-Oncology</i> , 2014 , 16, v169-v169	1	78

236	Quiescent period respiratory gating for PET/CT. <i>Medical Physics</i> , 2010 , 37, 5037-43	4.4	78
235	[11C]WAY 100635: a radioligand for imaging 5-HT1A receptors with positron emission tomography. <i>Life Sciences</i> , 1994 , 55, PL403-7	6.8	75
234	Evaluation of strategies towards harmonization of FDG PET/CT studies in multicentre trials: comparison of scanner validation phantoms and data analysis procedures. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013 , 40, 1507-15	8.8	71
233	Ultra-low dose CT attenuation correction for PET/CT. <i>Physics in Medicine and Biology</i> , 2012 , 57, 309-28	3.8	68
232	Quantitative imaging test approval and biomarker qualification: interrelated but distinct activities. <i>Radiology</i> , 2011 , 259, 875-84	20.5	65
231	[11C]metahydroxyephedrine and [18F]fluorodeoxyglucose positron emission tomography improve clinical decision making in suspected pheochromocytoma. <i>Annals of Surgical Oncology</i> , 2006 , 13, 187-97	3.1	65
230	Volumetric model and human observer comparisons of tumor detection for whole-body positron emission tomography. <i>Academic Radiology</i> , 2004 , 11, 637-48	4.3	65
229	Model-based iterative reconstruction versus adaptive statistical iterative reconstruction and filtered back projection in liver 64-MDCT: focal lesion detection, lesion conspicuity, and image noise. <i>American Journal of Roentgenology</i> , 2013 , 200, 1071-6	5.4	64
228	A methodology for testing for statistically significant differences between fully 3D PET reconstruction algorithms. <i>Physics in Medicine and Biology</i> , 1994 , 39, 341-54	3.8	64
227	Correction methods for random coincidences in fully 3D whole-body PET: impact on data and image quality. <i>Journal of Nuclear Medicine</i> , 2005 , 46, 859-67	8.9	63
226	Image reconstruction for PET/CT scanners: past achievements and future challenges. <i>Imaging in Medicine</i> , 2010 , 2, 529-545	1	60
225	Effects of MR surface coils on PET quantification. <i>Medical Physics</i> , 2011 , 38, 2948-56	4.4	59
224	Quantitative assessment of dynamic PET imaging data in cancer imaging. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 1203-15	3.3	58
223	Comparison Between Pre-Log and Post-Log Statistical Models in Ultra-Low-Dose CT Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 707-720	11.7	57
222	Dynamic and static approaches to quantifying 18F-FDG uptake for measuring cancer response to therapy, including the effect of granulocyte CSF. <i>Journal of Nuclear Medicine</i> , 2007 , 48, 920-5	8.9	57
221	Optimization of injected dose based on noise equivalent count rates for 2- and 3-dimensional whole-body PET. <i>Journal of Nuclear Medicine</i> , 2002 , 43, 1268-78	8.9	57
220	Respiratory motion correction for quantitative PET/CT using all detected events with internal-external motion correlation. <i>Medical Physics</i> , 2011 , 38, 2715-23	4.4	56
219	Instrumentation factors affecting variance and bias of quantifying tracer uptake with PET/CT. <i>Medical Physics</i> , 2010 , 37, 6035-46	4.4	56

218	Tumor radiomic heterogeneity: Multiparametric functional imaging to characterize variability and predict response following cervical cancer radiation therapy. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 47, 1388-1396	5.6	55
217	Quantitative Imaging Network: Data Sharing and Competitive Algorithm Validation Leveraging The Cancer Imaging Archive. <i>Translational Oncology</i> , 2014 , 7, 147-52	4.9	53
216	Figures of merit for comparing reconstruction algorithms with a volume-imaging PET scanner. <i>Physics in Medicine and Biology</i> , 1994 , 39, 631-42	3.8	53
215	Quantifying and reducing the effect of calibration error on variability of PET/CT standardized uptake value measurements. <i>Journal of Nuclear Medicine</i> , 2011 , 52, 218-24	8.9	52
214	PET/CT scanner instrumentation, challenges, and solutions. <i>Radiologic Clinics of North America</i> , 2004 , 42, 1017-32, vii	2.3	51
213	The Impact of Arterial Input Function Determination Variations on Prostate Dynamic Contrast-Enhanced Magnetic Resonance Imaging Pharmacokinetic Modeling: A Multicenter Data Analysis Challenge. <i>Tomography</i> , 2016 , 2, 56-66	3.1	51
212	A patient-specific computational model of hypoxia-modulated radiation resistance in glioblastoma using 18F-FMISO-PET. <i>Journal of the Royal Society Interface</i> , 2015 , 12,	4.1	50
211	Performance evaluation of the 5-Ring GE Discovery MI PET/CT system using the national electrical manufacturers association NU 2-2012 Standard. <i>Medical Physics</i> , 2019 , 46, 3025-3033	4.4	45
210	Improved quantitation for PET/CT image reconstruction with system modeling and anatomical priors. <i>Medical Physics</i> , 2006 , 33, 4095-103	4.4	45
209	Errors in Quantitative Image Analysis due to Platform-Dependent Image Scaling. <i>Translational Oncology</i> , 2014 , 7, 65-71	4.9	44
208	Quantitative imaging to assess tumor response to therapy: common themes of measurement, truth data, and error sources. <i>Translational Oncology</i> , 2009 , 2, 198-210	4.9	44
207	Dual energy CT attenuation correction methods for quantitative assessment of response to cancer therapy with PET/CT imaging. <i>Technology in Cancer Research and Treatment</i> , 2006 , 5, 319-27	2.7	44
206	Properties and Mitigation of Edge Artifacts in PSF-Based PET Reconstruction. <i>IEEE Transactions on Nuclear Science</i> , 2011 , 58, 2264-2275	1.7	43
205	Statistical sinogram restoration in dual-energy CT for PET attenuation correction. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 1688-702	11.7	40
204	PET/CT Assessment of Response to Therapy: Tumor Change Measurement, Truth Data, and Error. <i>Translational Oncology</i> , 2009 , 2, 223-30	4.9	40
203	Applying a patient-specific bio-mathematical model of glioma growth to develop virtual [18F]-FMISO-PET images. <i>Mathematical Medicine and Biology</i> , 2012 , 29, 31-48	1.3	39
202	Evaluating image reconstruction methods for tumor detection in 3-dimensional whole-body PET oncology imaging. <i>Journal of Nuclear Medicine</i> , 2003 , 44, 276-90	8.9	39
201	Designing a compact high performance brain PET scanner-simulation study. <i>Physics in Medicine and Biology</i> , 2016 , 61, 3681-97	3.8	38

200	The Theory of Three-Dimensional Image Reconstruction for PET. <i>IEEE Transactions on Medical Imaging</i> , 1987 , 6, 239-43	11.7	38
199	Functional lung avoidance and response-adaptive escalation (FLARE) RT: Multimodality plan dosimetry of a precision radiation oncology strategy. <i>Medical Physics</i> , 2017 , 44, 3418-3429	4.4	36
198	Evaluation of Multiclass Model Observers in PET LROC Studies. <i>IEEE Transactions on Nuclear Science</i> , 2007 , 54, 116-123	1.7	35
197	Pragmatic fully 3D image reconstruction for the MiCES mouse imaging PET scanner. <i>Physics in Medicine and Biology</i> , 2004 , 49, 4563-78	3.8	34
196	A direct comparison between whole-brain PET and BOLD fMRI measurements of single-subject activation response. <i>NeuroImage</i> , 1999 , 9, 430-8	7.9	33
195	A comparison of transform and iterative reconstruction techniques for a volume-imaging PET scanner with a large axial acceptance angle. <i>IEEE Transactions on Nuclear Science</i> , 1995 , 42, 2281-2287	1.7	33
194	Resolution Properties of a Prototype Continuous Miniature Crystal Element (cMiCE) Scanner. <i>IEEE Transactions on Nuclear Science</i> , 2011 , 58,	1.7	32
193	. <i>IEEE Transactions on Nuclear Science</i> , 1988 , 35, 635-638	1.7	32
192	A lesion detection observer study comparing 2-dimensional versus fully 3-dimensional whole-body PET imaging protocols. <i>Journal of Nuclear Medicine</i> , 2004 , 45, 714-23	8.9	32
191	Accuracy of CT-based attenuation correction in PET/CT bone imaging. <i>Physics in Medicine and Biology</i> , 2012 , 57, 2477-90	3.8	30
190	Weight loss-induced plasticity of glucose transport and phosphorylation in the insulin resistance of obesity and type 2 diabetes. <i>Diabetes</i> , 2003 , 52, 1619-26	0.9	30
189	Effect of increased axial field of view on the performance of a volume PET scanner. <i>IEEE Transactions on Medical Imaging</i> , 1993 , 12, 299-306	11.7	30
188	Data Acquisition and Image Reconstruction for 3D PET 1998 , 11-53		29
187	Meta-analysis of the technical performance of an imaging procedure: guidelines and statistical methodology. <i>Statistical Methods in Medical Research</i> , 2015 , 24, 141-74	2.3	28
186	Attenuation-emission alignment in cardiac PET/CT based on consistency conditions. <i>Medical Physics</i> , 2010 , 37, 1191-200	4.4	28
185	Measured count-rate performance of the Discovery STE PET/CT scanner in 2D, 3D and partial collimation acquisition modes. <i>Physics in Medicine and Biology</i> , 2008 , 53, 3723-38	3.8	28
184	Fast fully 3-D image reconstruction in PET using planograms. <i>IEEE Transactions on Medical Imaging</i> , 2004 , 23, 413-25	11.7	28
183	An analytic study of the effects of attenuation on tumor detection in whole-body PET oncology imaging. <i>Journal of Nuclear Medicine</i> , 2003 , 44, 1855-61	8.9	28

182	Virtual clinical trials in medical imaging: a review. <i>Journal of Medical Imaging</i> , 2020 , 7, 042805	2.6	27
181	Comparison of prediction models with radiological semantic features and radiomics in lung cancer diagnosis of the pulmonary nodules: a case-control study. <i>European Radiology</i> , 2019 , 29, 6100-6108	8	26
180	Gas bubble motion artifact in MDCT. <i>American Journal of Roentgenology</i> , 2008 , 190, 294-9	5.4	26
179	A comparison of planar versus volumetric numerical observers for detection task performance in whole-body PET imaging. <i>IEEE Transactions on Nuclear Science</i> , 2004 , 51, 34-40	1.7	26
178	Statistical image reconstruction in PET with compensation for missing data. <i>IEEE Transactions on Nuclear Science</i> , 1997 , 44, 1552-1557	1.7	25
177	Multisite Concordance of DSC-MRI Analysis for Brain Tumors: Results of a National Cancer Institute Quantitative Imaging Network Collaborative Project. <i>American Journal of Neuroradiology</i> , 2018 , 39, 1008-1016	4.4	25
176	A Digital Reference Object to Analyze Calculation Accuracy of PET Standardized Uptake Value. <i>Radiology</i> , 2015 , 277, 538-45	20.5	24
175	Prospective Study of Serial F-FDG PET and F-Fluoride PET to Predict Time to Skeletal-Related Events, Time to Progression, and Survival in Patients with Bone-Dominant Metastatic Breast Cancer. <i>Journal of Nuclear Medicine</i> , 2018 , 59, 1823-1830	8.9	24
174	Biases in Multicenter Longitudinal PET Standardized Uptake Value Measurements. <i>Translational Oncology</i> , 2014 , 7, 48-54	4.9	24
173	Effective count rates for PET scanners with reduced and extended axial field of view. <i>Physics in Medicine and Biology</i> , 2011 , 56, 3629-43	3.8	24
172	Design considerations for using PET as a response measure in single site and multicenter clinical trials. <i>Academic Radiology</i> , 2012 , 19, 184-90	4.3	23
171	The QIBA Profile for FDG PET/CT as an Imaging Biomarker Measuring Response to Cancer Therapy. <i>Radiology</i> , 2020 , 294, 647-657	20.5	23
170	Statistical Issues in Testing Conformance with the Quantitative Imaging Biomarker Alliance (QIBA) Profile Claims. <i>Academic Radiology</i> , 2016 , 23, 496-506	4.3	22
169	Framework for radiation pneumonitis risk stratification based on anatomic and perfused lung dosimetry. <i>Strahlentherapie Und Onkologie</i> , 2017 , 193, 410-418	4.3	21
168	Differential hepatic avoidance radiation therapy: Proof of concept in hepatocellular carcinoma patients. <i>Radiotherapy and Oncology</i> , 2015 , 115, 203-10	5.3	20
167	Development of a Single Detector Ring Micro Crystal Element Scanner: QuickPET II. <i>Molecular Imaging</i> , 2005 , 4, 153535002005041	3.7	20
166	Measuring total liver function on sulfur colloid SPECT/CT for improved risk stratification and outcome prediction of hepatocellular carcinoma patients. <i>EJNMMI Research</i> , 2016 , 6, 57	3.6	19
165	Challenges and opportunities in patient-specific, motion-managed and PET/CT-guided radiation therapy of lung cancer: review and perspective. <i>Clinical and Translational Medicine</i> , 2012 , 1, 18	5.7	19

164	Effect of reconstruction algorithms on myocardial blood flow measurement with ¹³ N-ammonia PET. <i>Journal of Nuclear Medicine</i> , 2007 , 48, 1259-65	8.9	19
163	. <i>IEEE Transactions on Nuclear Science</i> , 2004 , 51, 27-33	1.7	19
162	Multicenter Clinical Trials Using ¹⁸ F-FDG PET to Measure Early Response to Oncologic Therapy: Effects of Injection-to-Acquisition Time Variability on Required Sample Size. <i>Journal of Nuclear Medicine</i> , 2016 , 57, 226-30	8.9	18
161	Image Reconstruction Algorithms in PET 2005 , 63-91		18
160	Development of a single detector ring micro crystal element scanner: QuickPET II. <i>Molecular Imaging</i> , 2005 , 4, 117-27	3.7	18
159	Multi-site quality and variability analysis of 3D FDG PET segmentations based on phantom and clinical image data. <i>Medical Physics</i> , 2017 , 44, 479-496	4.4	17
158	Performance assessment of a NaI(Tl) gamma counter for PET applications with methods for improved quantitative accuracy and greater standardization. <i>EJNMMI Physics</i> , 2015 , 2,	4.4	17
157	Dual energy CT for attenuation correction with PET/CT. <i>Medical Physics</i> , 2014 , 41, 012501	4.4	17
156	The Use of Quantitative Imaging in Radiation Oncology: A Quantitative Imaging Network (QIN) Perspective. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 102, 1219-1235	4	17
155	Statistical LOR estimation for a high-resolution dMiCE PET detector. <i>Physics in Medicine and Biology</i> , 2009 , 54, 6369-82	3.8	16
154	Multimodality molecular imaging of the lung. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 1409-20	5.6	16
153	. <i>IEEE Transactions on Nuclear Science</i> , 1988 , 35, 680-684	1.7	16
152	Multisite concordance of apparent diffusion coefficient measurements across the NCI Quantitative Imaging Network. <i>Journal of Medical Imaging</i> , 2018 , 5, 011003	2.6	16
151	Multiplexing strategies for monolithic crystal PET detector modules. <i>Physics in Medicine and Biology</i> , 2014 , 59, 5347-60	3.8	15
150	Recommendations for measurement of tumour vascularity with positron emission tomography in early phase clinical trials. <i>European Radiology</i> , 2012 , 22, 1465-78	8	15
149	Positron emission tomography with a large axial acceptance angle: signal-to-noise considerations. <i>IEEE Transactions on Medical Imaging</i> , 1991 , 10, 249-55	11.7	15
148	Qualification of National Cancer Institute-Designated Cancer Centers for Quantitative PET/CT Imaging in Clinical Trials. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 1065-1071	8.9	14
147	Letter to cancer center directors: Progress in quantitative imaging as a means to predict and/or measure tumor response in cancer therapy trials. <i>Journal of Clinical Oncology</i> , 2014 , 32, 2115-6	2.2	14

146	Impact of CT attenuation correction method on quantitative respiratory-correlated (4D) PET/CT imaging. <i>Medical Physics</i> , 2015 , 42, 110-20	4.4	14
145	Measured spatially variant system response for PET image reconstruction		14
144	Evaluation of lesion detectability in positron emission tomography when using a convergent penalized likelihood image reconstruction method. <i>Journal of Medical Imaging</i> , 2017 , 4, 011002	2.6	14
143	Test-Retest Reproducibility of F-FDG PET/CT Uptake in Cancer Patients Within a Qualified and Calibrated Local Network. <i>Journal of Nuclear Medicine</i> , 2019 , 60, 608-614	8.9	14
142	Evaluation of event position reconstruction in monolithic crystals that are optically coupled. <i>Physics in Medicine and Biology</i> , 2016 , 61, 8298-8320	3.8	13
141	The performance of the single-slice rebinning technique for imaging the human striatum as evaluated by phantom studies. <i>Physics in Medicine and Biology</i> , 1994 , 39, 369-80	3.8	13
140	Evaluation of Cross-Calibrated Ge/Ga Phantoms for Assessing PET/CT Measurement Bias in Oncology Imaging for Single- and Multicenter Trials. <i>Tomography</i> , 2016 , 2, 353-360	3.1	13
139	Tumor-derived Autoantibodies Identify Malignant Pulmonary Nodules. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019 , 199, 1257-1266	10.2	13
138	Respiratory trace feature analysis for the prediction of respiratory-gated PET quantification. <i>Physics in Medicine and Biology</i> , 2014 , 59, 1027-45	3.8	12
137	In silico analysis suggests differential response to bevacizumab and radiation combination therapy in newly diagnosed glioblastoma. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20150388	4.1	12
136	Morphology supporting function: attenuation correction for SPECT/CT, PET/CT, and PET/MR imaging. <i>Quarterly Journal of Nuclear Medicine and Molecular Imaging</i> , 2016 , 60, 25-39	1.4	12
135	Ultra-low dose CT attenuation correction for PET/CT: analysis of sparse view data acquisition and reconstruction algorithms. <i>Physics in Medicine and Biology</i> , 2015 , 60, 7437-60	3.8	11
134	Multicenter trials using 18 F-fluorodeoxyglucose (FDG) PET to predict chemotherapy response: effects of differential measurement error and bias on power calculations for unselected and enrichment designs. <i>Clinical Trials</i> , 2013 , 10, 886-95	2.2	11
133	Quantification of radiotracer uptake with a dedicated breast PET imaging system. <i>Medical Physics</i> , 2008 , 35, 4989-97	4.4	11
132	Distribution of 1-(2-deoxy-2-fluoro-beta-D-arabinofuranosyl) uracil in mice bearing colorectal cancer xenografts: rationale for therapeutic use and as a positron emission tomography probe for thymidylate synthase. <i>Clinical Cancer Research</i> , 2004 , 10, 6669-76	12.9	11
131	Effect of F-FDG uptake time on lesion detectability in PET imaging of early stage breast cancer. <i>Tomography</i> , 2015 , 1, 53-60	3.1	11
130	A virtual clinical trial comparing static versus dynamic PET imaging in measuring response to breast cancer therapy. <i>Physics in Medicine and Biology</i> , 2017 , 62, 3639-3655	3.8	10
129	A Virtual Clinical Trial of FDG-PET Imaging of Breast Cancer: Effect of Variability on Response Assessment. <i>Translational Oncology</i> , 2014 , 7, 138-46	4.9	10

128	Position estimation and error correction in a 2D position-sensitive NaI(Tl) detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1990 , 299, 484-489	1.2	10
127	Task Group 174 Report: Utilization of [¹⁸ F]Fluorodeoxyglucose Positron Emission Tomography ([¹⁸ F]FDG-PET) in Radiation Therapy. <i>Medical Physics</i> , 2019 , 46, e706-e725	4.4	9
126	Early experiences in establishing a regional quantitative imaging network for PET/CT clinical trials. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 1291-300	3.3	9
125	APPLICATION OF A SPATIALLY VARIANT SYSTEM MODEL FOR 3-D WHOLE-BODY PET IMAGE RECONSTRUCTION 2008 , 2008, 1315-1318	1.5	9
124	Improved model prediction of glioma growth utilizing tissue-specific boundary effects. <i>Mathematical Biosciences</i> , 2019 , 312, 59-66	3.9	8
123	Imaging and dosimetric errors in 4D PET/CT-guided radiotherapy from patient-specific respiratory patterns: a dynamic motion phantom end-to-end study. <i>Physics in Medicine and Biology</i> , 2015 , 60, 3731-46	2.8	8
122	Effects of Detector Thickness on Geometric Sensitivity and Event Positioning Errors in the Rectangular PET/X Scanner. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 3242-3252	1.7	8
121	The Value of Establishing the Quantitative Accuracy of PET/CT Imaging. <i>Journal of Nuclear Medicine</i> , 2015 , 56, 1133-4	8.9	8
120	PET instrumentation. <i>Radiologic Clinics of North America</i> , 2004 , 42, 1003-16, vii	2.3	8
119	Impact of tumour motion compensation and delineation methods on FDG PET-based dose painting plan quality for NSCLC radiation therapy. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2018 , 62, 81-90	1.7	8
118	Performance Observations of Scanner Qualification of NCI-Designated Cancer Centers: Results From the Centers of Quantitative Imaging Excellence (CQIE) Program. <i>Academic Radiology</i> , 2017 , 24, 232-245	4.3	7
117	Voxel Forecast for Precision Oncology: Predicting Spatially Variant and Multiscale Cancer Therapy Response on Longitudinal Quantitative Molecular Imaging. <i>Clinical Cancer Research</i> , 2019 , 25, 5027-5037 ^{12.9}	12.9	7
116	A robust state-space kinetics-guided framework for dynamic PET image reconstruction. <i>Physics in Medicine and Biology</i> , 2011 , 56, 2481-98	3.8	7
115	Analytical reconstruction of deconvolved Fourier rebinned PET sinograms. <i>Physics in Medicine and Biology</i> , 2006 , 51, 77-93	3.8	7
114	. <i>IEEE Transactions on Nuclear Science</i> , 2002 , 49, 74-81	1.7	7
113	. <i>IEEE Transactions on Nuclear Science</i> , 1990 , 37, 789-794	1.7	7
112	A phantom design for assessment of detectability in PET imaging. <i>Medical Physics</i> , 2016 , 43, 5051	4.4	7
111	Comparison of prone versus supine ¹⁸ F-FDG-PET of locally advanced breast cancer: Phantom and preliminary clinical studies. <i>Medical Physics</i> , 2015 , 42, 3801-13	4.4	6

110	Improving lesion detectability in PET imaging with a penalized likelihood reconstruction algorithm 2015 ,		6
109	Comparison of regional lung perfusion response on longitudinal MAA SPECT/CT in lung cancer patients treated with and without functional tissue-avoidance radiation therapy. <i>British Journal of Radiology</i> , 2019 , 92, 20190174	3.4	6
108	Impact on Image Noise of Incorporating Detector Blurring into Image Reconstruction for a Small Animal PET Scanner. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 2769-2776	1.7	6
107	Clinical Imaging Characteristics of the Positron Emission Mammography PEM Flex Solo II. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2008 , 11, 4494-4501		6
106	Optimization of noise equivalent count rate performance for a partially collimated PET scanner by varying the number of septa. <i>IEEE Transactions on Medical Imaging</i> , 2007 , 26, 935-44	11.7	6
105	Fast PET EM reconstruction from linograms. <i>IEEE Transactions on Nuclear Science</i> , 2003 , 50, 1630-1635	1.7	6
104	A quantitative approach to a weight-based scanning protocol for PET oncology imaging		6
103	The effects of object size, attenuation, scatter, and random coincidences on signal to noise ratio in simulations of time-of-flight positron emission tomography		6
102	Bone material analogues for PET/MRI phantoms. <i>Medical Physics</i> , 2020 , 47, 2161-2170	4.4	5
101	Cherenkov luminescence measurements with digital silicon photomultipliers: a feasibility study. <i>EJNMMI Physics</i> , 2015 , 2, 32	4.4	5
100	An OpenPET scanner with bridged detectors to compensate for incomplete data. <i>Physics in Medicine and Biology</i> , 2014 , 59, 6175-93	3.8	5
99	Dual-radioisotope PET data acquisition and analysis 2011 ,		5
98	Statistical image reconstruction from correlated data with applications to PET. <i>Physics in Medicine and Biology</i> , 2007 , 52, 6133-50	3.8	5
97	Automatic arm removal in PET and CT images for deformable registration. <i>Computerized Medical Imaging and Graphics</i> , 2006 , 30, 469-77	7.6	5
96	Quantitative attenuation correction for PET/CT using iterative reconstruction of low-dose dual-energy CT		5
95	Measuring temporal stability of positron emission tomography standardized uptake value bias using long-lived sources in a multicenter network. <i>Journal of Medical Imaging</i> , 2018 , 5, 011016	2.6	5
94	The Impact of Arterial Input Function Determination Variations on Prostate Dynamic Contrast-Enhanced Magnetic Resonance Imaging Pharmacokinetic Modeling: A Multicenter Data Analysis Challenge, Part II. <i>Tomography</i> , 2019 , 5, 99-109	3.1	5
93	AAPM/SNMMI Joint Task Force: report on the current state of nuclear medicine physics training. <i>Journal of Applied Clinical Medical Physics</i> , 2015 , 16, 3-13	2.3	4

92	X-ray pulsing methods for reduced-dose computed tomography in PET/CT attenuation correction 2014,		4
91	Advancements to the planogram frequency-distance rebinning algorithm. <i>Inverse Problems</i> , 2010 , 26, 45008	2.3	4
90	Evaluation of Noise Properties in PSF-Based PET Image Reconstruction. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2009 , 2009, 3042-3047		4
89	DOI-based reconstruction algorithms for a compact breast PET scanner. <i>Medical Physics</i> , 2011 , 38, 1660-1674		4
88	Statistical Three-Dimensional Positioning Algorithm for High-Resolution dMiCE PET Detector. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2009 , 2009, 4751-4754		4
87	Count-Rate Performance of the Discovery STE PET Scanner Using Partial Collimation. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2006 , 4, 2488-2493		4
86	Consistency Driven Respiratory Phase Alignment and Motion Compensation in PET/CT. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2007 , 4, 3115-3119		4
85	Reproducibility of quantifying tracer uptake with PET/CT for evaluation of response to therapy 2007,		4
84	Analytic Image Reconstruction Methods 2004 , 421-442		4
83	Sensitivity analysis of FDG PET tumor voxel cluster radiomics and dosimetry for predicting mid-chemoradiation regional response of locally advanced lung cancer. <i>Physics in Medicine and Biology</i> , 2020 , 65, 205007	3.8	4
82	Noise and Bias Properties of Monoenergetic Images from DECT used for Attenuation Correction with PET/CT and SPECT/CT. <i>Proceedings of SPIE</i> , 2010 , 7622, 762225-762228	1.7	3
81	Properties of edge artifacts in PSF-based PET reconstruction 2010,		3
80	Planogram rebinning with the frequency-distance relationship. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 925-33	11.7	3
79	A teachable neural network based on an unorthodox neuron. <i>Physica D: Nonlinear Phenomena</i> , 1986 , 22, 233-246	3.3	3
78	Virtual Clinical Trials: Why and What (Special Section Guest Editorial). <i>Journal of Medical Imaging</i> , 2020 , 7, 042801	2.6	3
77	Bias in PET Images of Solid Phantoms Due to CT-Based Attenuation Correction. <i>Tomography</i> , 2019 , 5, 154-160	3.1	3
76	Special Section Guest Editorial: Positron Emission Tomography: History, Current Status, and Future Prospects. <i>Journal of Medical Imaging</i> , 2017 , 4, 011001	2.6	2
75	The novel coronavirus disease (COVID-19) complicated by pulmonary embolism and acute respiratory distress syndrome. <i>Journal of Medical Virology</i> , 2020 , 92, 2205-2208	19.7	2

74	Impact of Using Uniform Attenuation Coefficients for Heterogeneously Dense Breasts in a Dedicated Breast PET/X-ray Scanner. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2020 , 4, 585-593	4.2	2
73	Fast analytical approach of application specific dose efficient spectrum selection for diagnostic CT imaging and PET attenuation correction. <i>Physics in Medicine and Biology</i> , 2016 , 61, 7787-7811	3.8	2
72	Spatial covariance characteristics in a collection of 3-D PET scanners used in clinical imaging trials 2014 ,		2
71	Detector Position Estimation for PET Scanners. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012 , 677, 74-79	1.2	2
70	Assessment of patient selection criteria for quantitative imaging with respiratory-gated positron emission tomography. <i>Journal of Medical Imaging</i> , 2014 , 1, 026001	2.6	2
69	Multimodality molecular imaging of the lung. <i>Clinical and Translational Imaging</i> , 2014 , 2, 391-401	2	2
68	Resolution properties of a prototype continuous miniature crystal element (cMiCE) scanner 2010 ,		2
67	Limits of Ultra-Low Dose CT Attenuation Correction for PET/CT. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2010 , 2009, 3074-3079		2
66	Determining Block Detector Positions for PET Scanners. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2009 , 2009, 2976-2980		2
65	Low-dose dual-energy computed tomography for PET attenuation correction with statistical sinogram restoration 2008 ,		2
64	Image Reconstruction for a Partially Collimated Whole Body PET Scanner. <i>IEEE Transactions on Nuclear Science</i> , 2008 , 55, 975-983	1.7	2
63	Estimating Live-Time for New PET Scanner Configurations. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2007 , 4, 2880-2884		2
62	A generalized simulation description language. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2007 , 5, 4012-4014		2
61	Numerical observer studies comparing FORE+AWOSEM, FORE+NECOSEM and NEC based fully 3-D OSEM for 3-D whole-body PET imaging. <i>IEEE Transactions on Nuclear Science</i> , 2006 , 53, 1194-1199	1.7	2
60	Correction methods for random coincidences in 3D wholebody PET imaging		2
59	Basal ganglia studies with 3D acquisition and 2D reconstruction on a retractable septa PET scanner. <i>Journal of Computer Assisted Tomography</i> , 1994 , 18, 1004-9	2.2	2
58	¹⁸ F-Fluoroestradiol (FES) and ¹⁸ F-Fluorodeoxyglucose (FDG) PET imaging in lobular breast cancer.. <i>Journal of Clinical Oncology</i> , 2018 , 36, 1063-1063	2.2	2
57	ASIM. <i>Series in Medical Physics and Biomedical Engineering</i> , 2012 , 201-220		2

56	Multisite Technical and Clinical Performance Evaluation of Quantitative Imaging Biomarkers from 3D FDG PET Segmentations of Head and Neck Cancer Images. <i>Tomography</i> , 2020 , 6, 65-76	3.1	2
55	A Path to Qualification of PET/MR Scanners for Multicenter Brain Imaging Studies: Evaluation of MR-based Attenuation Correction Methods Using a Patient Phantom. <i>Journal of Nuclear Medicine</i> , 2021 ,	8.9	2
54	PET/CT acceptance testing and quality assurance: Executive summary of AAPM Task Group 126 Report. <i>Medical Physics</i> , 2021 , 48, e31-e35	4.4	2
53	Improved attenuation correction for respiratory gated PET/CT with extended-duration cine CT: a simulation study 2017 ,		1
52	PET/CT-guided biopsy with respiratory motion correction. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019 , 14, 2187-2198	3.9	1
51	Comparison between pre-log and post-log statistical models in low-dose CT iterative reconstruction 2014 ,		1
50	Simulation study for designing a compact brain PET scanner 2015 ,		1
49	An improved statistical approach to the estimation of spatial bias and variability in reconstructed PET data 2015 ,		1
48	A digital reference object for the 3D Hoffman brain phantom for characterization of PET neuroimaging quality 2013 ,		1
47	Experimental Evaluation of a Deformable Registration Algorithm for Motion Correction in PET-CT Guided Biopsy. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2013 , 2013,		1
46	Direct Reconstruction of CT-based Attenuation Correction Images for PET with Cluster-Based Penalties. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2013 , 2013,		1
45	Image reconstruction in rectangular PET systems using distance-driven projections 2013 ,		1
44	Fast kVp-switching dual energy CT for PET attenuation correction 2009 ,		1
43	Expanding SimSET to include block detectors: performance with pseudo-blocks and a true block model. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2007 , 6, 4275-4278		1
42	Performance comparisons of planar and volumetric observers for lesion detection in PET scanning 2003 , 5034, 89		1
41	Advanced PET/CT fusion workstation for oncology imaging 2005 ,		1
40	Effect of patient thickness and scan duration on lesion detectability in PET oncology imaging 2005 , 5745, 960		1
39	Laser stimulation for pain research 1996 ,		1

38	Simulation study of quantitative precision of the PET/X dedicated breast PET scanner. <i>Journal of Medical Imaging</i> , 2017 , 4, 045502	2.6	1
37	Deep-learning derived features for lung nodule classification with limited datasets 2018 ,		1
36	The PET/X dedicated breast-PET scanner for optimizing cancer therapy 2018 ,		1
35	MO-A-BRA-01: State of the Art in Quantitative Imaging in CT, PET and MRI. <i>Medical Physics</i> , 2012 , 39, 3862-3863	4.4	1
34	Serial FDG-PET to predict response, time to skeletal related events, and survival in patients with bone-dominant metastatic breast cancer.. <i>Journal of Clinical Oncology</i> , 2016 , 34, 11569-11569	2.2	1
33	Calibration Software for Quantitative PET/CT Imaging Using Pocket Phantoms. <i>Tomography</i> , 2018 , 4, 148-158	3.1	1
32	Harmonization of PET image reconstruction parameters in simultaneous PET/MRI. <i>EJNMMI Physics</i> , 2021 , 8, 75	4.4	1
31	Multicenter survey of PET/CT protocol parameters that affect standardized uptake values. <i>Journal of Medical Imaging</i> , 2018 , 5, 011012	2.6	1
30	Simultaneous Estimation of Bias and Resolution in PET Images With a Long-Lived "Pocket" Phantom System. <i>Tomography</i> , 2018 , 4, 33-41	3.1	1
29	Simulating magnetic resonance images based on a model of tumor growth incorporating microenvironment 2018 ,		1
28	Special Section Guest Editorial: Artificial Intelligence in Medical Imaging. <i>Journal of Medical Imaging</i> , 2019 , 6, 011001	2.6	1
27	TU-E-141-09: Impact of Attenuation Correction Mode On 4D PET/CT for Target Definition in Lung Cancer Patients. <i>Medical Physics</i> , 2013 , 40, 449-449	4.4	1
26	Technical Note: A digital reference object representing Hoffman's 3D brain phantom for PET scanner simulations. <i>Medical Physics</i> , 2020 , 47, 1174-1180	4.4	1
25	Reliability of Quantitative 18F-FDG PET/CT Imaging Biomarkers for Classifying Early Response to Chemoradiotherapy in Patients With Locally Advanced Non-Small Cell Lung Cancer. <i>Clinical Nuclear Medicine</i> , 2021 , 46, 861-871	1.7	1
24	An algorithm for automated ROI definition in water or epoxy-filled NEMA NU-2 image quality phantoms. <i>Journal of Applied Clinical Medical Physics</i> , 2016 , 17, 440-456	2.3	1
23	F-fluorodeoxyglucose (FDG) PET or F-fluorothymidine (FLT) PET to assess early response to aromatase inhibitors (AI) in women with ER+ operable breast cancer in a window-of-opportunity study. <i>Breast Cancer Research</i> , 2021 , 23, 88	8.3	1
22	Evaluation of attenuation correction in PET/MRI with synthetic lesion insertion. <i>Journal of Medical Imaging</i> , 2021 , 8, 056001	2.6	1
21	Direct Reconstruction of CT-based Attenuation Correction Images for PET with Cluster-Based Penalties. <i>IEEE Transactions on Nuclear Science</i> , 2017 , 64, 959-968	1.7	0

20	Regularizing the Deepsurv Network Using Projection Loss for Medical Risk Assessment. <i>IEEE Access</i> , 2022 , 10, 8005-8020	3.5	o
19	Standards, Phantoms, and Site Qualification 2021 , 1-26		o
18	A Prognostic Model Integrating PET-Derived Quantitative Parameters and Image Texture Analyses Using Radiomics in a Large Prospective Phase III Trial, GOYA. <i>Blood</i> , 2019 , 134, 883-883	2.2	o
17	Mixed Confidence Estimation for Iterative CT Reconstruction. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2005-14	11.7	
16	Overview and a Word of Thanks. <i>Medical Physics</i> , 2013 , 40, 4-5	4.4	
15	Introduction and a Word of Thanks. <i>Medical Physics</i> , 2012 , 39, 3526-3526	4.4	
14	Simulations of the Effect of Collimation on Count Rates of an LSO PET System. <i>IEEE Nuclear Science Symposium Conference Record</i> , 2006 , 5, 3049-3052		
13	Evaluating image reconstruction methods for tumor detection performance in whole-body PET oncology imaging 2000 , 3981, 49		
12	Prognostic Value of Early Fluorodeoxyglucose-Positron Emission Tomography Response Imaging and Peripheral Immunologic Biomarkers: Substudy of a Phase II Trial of Risk-Adaptive Chemoradiation for Unresectable Non-Small Cell Lung Cancer.. <i>Advances in Radiation Oncology</i> , 2022 , 7, 100857	3.3	
11	SU-FF-J-106: FMISO-PET Hypoxia Imaging: A Novel Method to Plan IMRT-Based Boost Radiation to Hypoxic Subvolumes. <i>Medical Physics</i> , 2005 , 32, 1944-1944	4.4	
10	SU-FF-J-107: Tumor-Delineation Uncertainties in FDG-PET and FMISO-PET Images and the Effect On Radiation Therapy Plans. <i>Medical Physics</i> , 2005 , 32, 1944-1945	4.4	
9	A core laboratory approach to large-scale radiomics and machine-learning prediction of DLBCL outcomes after first-line treatment using results from the phase III GOYA study.. <i>Journal of Clinical Oncology</i> , 2019 , 37, e19042-e19042	2.2	
8	Prognostic role of mid-treatment PET/CT and plasma cytokines in patients undergoing chemoradiation for locally advanced non-small cell lung cancer (LA-NSCLC).. <i>Journal of Clinical Oncology</i> , 2020 , 38, 9040-9040	2.2	
7	The use of 18F-fluoroestradiol (FES) and 18F-fluorodeoxyglucose (FDG) PET in the evaluation of breast cancer heterogeneity.. <i>Journal of Clinical Oncology</i> , 2017 , 35, 11572-11572	2.2	
6	TU-C-201C-02: Physical Validation of PET/CT for Imaging as a Biomarker. <i>Medical Physics</i> , 2010 , 37, 3387-3387	4.4	
5	TU-A-141-01: Multi Modal PET/CT Imaging for Therapy Response Early Prediction and Therapy Monitoring. <i>Medical Physics</i> , 2013 , 40, 425-425	4.4	
4	SU-D-141-06: Patient-Specific Imaging and Dosimetric Errors in PET/CT-Guided Radiotherapy of Lung Cancer. <i>Medical Physics</i> , 2013 , 40, 110-110	4.4	
3	SU-C-141-04: Robustness of 4DCT and 4DCBCT Object Volume Measurement with a Motion-Capable Lung Phantom That Mimics Realistic Patient Tumor Trajectories. <i>Medical Physics</i> , 2013 , 40, 92-92	4.4	

- 2 Non-Positive Corrections and Variance Models for Iterative Post-Log Reconstruction of Extremely Low-Dose CT Data. *Journal of the Korean Physical Society*, **2020**, 77, 177-185 0.6
- 1 Bone and Soft Tissue Tumors: Horizons in Radiomics and Artificial Intelligence.. *Radiologic Clinics of North America*, **2022**, 60, 339-358 2.3