Paul Eugene Kinahan

List of Publications by Year
in descending order

300 papers	18,159 citations	23500 58 h-index	14702 127 g-index
307 all docs	307 docs citations	307 times ranked	16843 citing authors

#	Article	IF	Citations
1	Radiomics: Images Are More than Pictures, They Are Data. Radiology, 2016, 278, 563-577.	3.6	5,341
2	Attenuation correction for a combined 3D PET/CT scanner. Medical Physics, 1998, 25, 2046-2053.	1.6	766
3	Exact and approximate rebinning algorithms for 3-D PET data. IEEE Transactions on Medical Imaging, 1997, 16, 145-158.	5.4	670
4	Analytic 3D image reconstruction using all detected events. IEEE Transactions on Nuclear Science, 1989, 36, 964-968.	1.2	661
5	Amphetamine-induced dopamine release in human ventral striatum correlates with euphoria. Biological Psychiatry, 2001, 49, 81-96.	0.7	650
6	X-ray-based attenuation correction for positron emission tomography/computed tomography scanners. Seminars in Nuclear Medicine, 2003, 33, 166-179.	2.5	448
7	Positron Emission Tomography-Computed Tomography Standardized Uptake Values in Clinical Practice and Assessing Response to Therapy. Seminars in Ultrasound, CT and MRI, 2010, 31, 496-505.	0.7	440
8	Characterization of PET/CT images using texture analysis: the past, the present… any future?. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 151-165.	3.3	376
9	Brown Adipose Reporting Criteria in Imaging STudies (BARCIST 1.0): Recommendations for Standardized FDG-PET/CT Experiments in Humans. Cell Metabolism, 2016, 24, 210-222.	7.2	233
10	Positron Emission Tomography: Current Challenges and Opportunities for Technological Advances in Clinical and Preclinical Imaging Systems. Annual Review of Biomedical Engineering, 2015, 17, 385-414.	5.7	230
11	Clinically feasible reconstruction of 3D whole-body PET/CT data using blurred anatomical labels. Physics in Medicine and Biology, 2002, 47, 1-20.	1.6	208
12	The impact of respiratory motion on tumor quantification and delineation in static PET/CT imaging. Physics in Medicine and Biology, 2009, 54, 7345-7362.	1.6	208
13	FDG-PET/CT imaging for preradiotherapy staging of head-and-neck squamous cell carcinoma. International Journal of Radiation Oncology Biology Physics, 2005, 61, 129-136.	0.4	207
14	Application and Evaluation of a Measured Spatially Variant System Model for PET Image Reconstruction. IEEE Transactions on Medical Imaging, 2010, 29, 938-949.	5.4	189
15	Combined PET/CT Imaging in Oncology Impact on Patient Management. Molecular Imaging and Biology, 2000, 3, 223-230.	0.3	181
16	Noise and signal properties in PSF-based fully 3D PET image reconstruction: an experimental evaluation. Physics in Medicine and Biology, 2010, 55, 1453-1473.	1.6	163
17	Modeling and incorporation of system response functions in 3-D whole body PET. IEEE Transactions on Medical Imaging, 2006, 25, 828-837.	5.4	156
18	Clinical Imaging Characteristics of the Positron Emission Mammography Camera: PEM Flex Solo II. Journal of Nuclear Medicine, 2009, 50, 1666-1675.	2.8	147

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19	Image Analysis in Patients with Cancer Studied with a Combined PET and CT Scanner. Clinical Nuclear Medicine, 2000, 25, 905-910.	0.7	142
20	The positron emission mammography/tomography breast imaging and biopsy system (PEM/PET): design, construction and phantom-based measurements. Physics in Medicine and Biology, 2008, 53, 637-653.	1.6	142
21	Quantitative imaging biomarkers: A review of statistical methods for computer algorithm comparisons. Statistical Methods in Medical Research, 2015, 24, 68-106.	0.7	137
22	Variations of Dynamic Contrast-Enhanced Magnetic Resonance Imaging in Evaluation of Breast Cancer Therapy Response: A Multicenter Data Analysis Challenge. Translational Oncology, 2014, 7, 153-166.	1.7	120
23	Comparison of 3-D reconstruction with 3D-OSEM and with FORE+OSEM for PET. IEEE Transactions on Medical Imaging, 2001, 20, 804-814.	5.4	111
24	FDG-PET/CT-guided intensity modulated head and neck radiotherapy: A pilot investigation. Head and Neck, 2005, 27, 478-487.	0.9	111
25	PET Measures of Amphetamine-Induced Dopamine Release in Ventral versus Dorsal Striatum. Neuropsychopharmacology, 1999, 21, 694-709.	2.8	110
26	Quantitative radiomics: impact of stochastic effects on textural feature analysis implies the need for standards. Journal of Medical Imaging, 2015, 2, 041002.	0.8	110
27	Weight-Based, Low-Dose Pediatric Whole-Body PET/CT Protocols. Journal of Nuclear Medicine, 2009, 50, 1570-1578.	2.8	108
28	Quantitative Imaging in Cancer Clinical Trials. Clinical Cancer Research, 2016, 22, 284-290.	3.2	106
29	Evaluation of task-oriented performance of several fully 3D PET reconstruction algorithms. Physics in Medicine and Biology, 1994, 39, 355-367.	1.6	103
30	Tumor delineation using PET in head and neck cancers: Threshold contouring and lesion volumes. Medical Physics, 2006, 33, 4280-4288.	1.6	100
31	Variability in PET quantitation within a multicenter consortium. Medical Physics, 2010, 37, 3660-3666.	1.6	97
32	Volumetric model and human observer comparisons of tumor detection for whole-body positron emission tomography1. Academic Radiology, 2004, 11, 637-648.	1.3	94
33	Quiescent period respiratory gating for PET/CT. Medical Physics, 2010, 37, 5037-5043.	1.6	94
34	Cine CT for Attenuation Correction in Cardiac PET/CT. Journal of Nuclear Medicine, 2007, 48, 794-801.	2.8	93
35	Summary of the UPICT Protocol for ^{18}F-FDG PET/CT Imaging in Oncology Clinical Trials. Journal of Nuclear Medicine, 2015, 56, 955-961.	2.8	93
36	Virtual clinical trials in medical imaging: a review. Journal of Medical Imaging, 2020, 7, 1.	0.8	93

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37	SUV varies with time after injection in (18)F-FDG PET of breast cancer: characterization and method to adjust for time differences. Journal of Nuclear Medicine, 2003, 44, 1044-50.	2.8	91
38	Image reconstruction for PET/CT scanners: past achievements and future challenges. Imaging in Medicine, 2010, 2, 529-545.	0.0	89
39	[11C]WAY 100635: A radioligand for imaging 5-HT1A receptors with positron emission tomography. Life Sciences, 1994, 55, PL403-PL407.	2.0	87
40	Ultra-low dose CT attenuation correction for PET/CT. Physics in Medicine and Biology, 2012, 57, 309-328.	1.6	84
41	Quantitative assessment of dynamic PET imaging data in cancer imaging. Magnetic Resonance Imaging, 2012, 30, 1203-1215.	1.0	84
42	Evaluation of strategies towards harmonization of FDG PET/CT studies in multicentre trials: comparison of scanner validation phantoms and data analysis procedures. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 1507-1515.	3.3	82
43	Tumor radiomic heterogeneity: Multiparametric functional imaging to characterize variability and predict response following cervical cancer radiation therapy. Journal of Magnetic Resonance Imaging, 2018, 47, 1388-1396.	1.9	82
44	Quantitative Imaging Test Approval and Biomarker Qualification: Interrelated but Distinct Activities. Radiology, 2011, 259, 875-884.	3.6	80
45	Performance evaluation of the 5â€Ring GE Discovery MI PET/CT system using the national electrical manufacturers association NU 2â€2012 Standard. Medical Physics, 2019, 46, 3025-3033.	1.6	78
46	A methodology for testing for statistically significant differences between fully 3D PET reconstruction algorithms. Physics in Medicine and Biology, 1994, 39, 341-354.	1.6	77
47	Comparison Between Pre-Log and Post-Log Statistical Models in Ultra-Low-Dose CT Reconstruction. IEEE Transactions on Medical Imaging, 2017, 36, 707-720.	5.4	77
48	Quantitative Imaging Network: Data Sharing and Competitive AlgorithmValidation Leveraging The Cancer Imaging Archive. Translational Oncology, 2014, 7, 147-152.	1.7	73
49	A patient-specific computational model of hypoxia-modulated radiation resistance in glioblastoma using [18] F-FMISO-PET. Journal of the Royal Society Interface, 2015, 12, 20141174.	1.5	73
50	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. American Journal of Roentgenology, 2013, 200, 1071-1076.	1.0	71
51	[11C]Metahydroxyephedrine and [18F]Fluorodeoxyglucose Positron Emission Tomography Improve Clinical Decision Making in Suspected Pheochromocytoma. Annals of Surgical Oncology, 2006, 13, 187-197.	0.7	70
52	The Impact of Arterial Input Function Determination Variations on Prostate Dynamic Contrast-Enhanced Magnetic Resonance Imaging Pharmacokinetic Modeling: A Multicenter Data Analysis Challenge. Tomography, 2016, 2, 56-66.	0.8	70
53	Correction methods for random coincidences in fully 3D whole-body PET: impact on data and image quality. Journal of Nuclear Medicine, 2005, 46, 859-67.	2.8	68
54	Instrumentation factors affecting variance and bias of quantifying tracer uptake with PET/CT. Medical Physics, 2010, 37, 6035-6046.	1.6	66

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55	PET/CT scanner instrumentation, challenges, and solutions. Radiologic Clinics of North America, 2004, 42, 1017-1032.	0.9	65
56	Respiratory motion correction for quantitative PET/CT using all detected events with internal-external motion correlation. Medical Physics, 2011, 38, 2715-2723.	1.6	64
57	Effects of MR surface coils on PET quantification. Medical Physics, 2011, 38, 2948-2956.	1.6	63
58	Quantifying and Reducing the Effect of Calibration Error on Variability of PET/CT Standardized Uptake Value Measurements. Journal of Nuclear Medicine, 2011, 52, 218-224.	2.8	62
59	Figures of merit for comparing reconstruction algorithms with a volume-imaging PET scanner. Physics in Medicine and Biology, 1994, 39, 631-642.	1.6	61
60	Dynamic and Static Approaches to Quantifying 18F-FDG Uptake for Measuring Cancer Response to Therapy, Including the Effect of Granulocyte CSF. Journal of Nuclear Medicine, 2007, 48, 920-925.	2.8	61
61	Properties and Mitigation of Edge Artifacts in PSF-Based PET Reconstruction. IEEE Transactions on Nuclear Science, 2011, 58, 2264-2275.	1.2	59
62	Optimization of injected dose based on noise equivalent count rates for 2- and 3-dimensional whole-body PET. Journal of Nuclear Medicine, 2002, 43, 1268-78.	2.8	57
63	Statistical Sinogram Restoration in Dual-Energy CT for PET Attenuation Correction. IEEE Transactions on Medical Imaging, 2009, 28, 1688-1702.	5.4	55
64	Functional lung avoidance and response-adaptive escalation (FLARE) RT: Multimodality plan dosimetry of a precision radiation oncology strategy. Medical Physics, 2017, 44, 3418-3429.	1.6	55
65	Dual Energy CT Attenuation Correction Methods for Quantitative Assessment of Response to Cancer Therapy with PET/CT Imaging. Technology in Cancer Research and Treatment, 2006, 5, 319-327.	0.8	53
66	Improved quantitation for PET/CT image reconstruction with system modeling and anatomical priors. Medical Physics, 2006, 33, 4095-4103.	1.6	53
67	Errors in Quantitative Image Analysis due to Platform-Dependent Image Scaling. Translational Oncology, 2014, 7, 65-71.	1.7	51
68	Evaluation of Multiclass Model Observers in PET LROC Studies. IEEE Transactions on Nuclear Science, 2007, 54, 116-123.	1.2	49
69	Quantitative Imaging to Assess Tumor Response to Therapy: Common Themes of Measurement, Truth Data, and Error Sources. Translational Oncology, 2009, 2, 198-210.	1.7	49
70	Designing a compact high performance brain PET scanner—simulation study. Physics in Medicine and Biology, 2016, 61, 3681-3697.	1.6	49
71	The QIBA Profile for FDG PET/CT as an Imaging Biomarker Measuring Response to Cancer Therapy. Radiology, 2020, 294, 647-657.	3.6	49
72	Effect of increased axial field of view on the performance of a volume PET scanner. IEEE Transactions on Medical Imaging, 1993, 12, 299-306.	5.4	47

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73	PET/CT Assessment of Response to Therapy: Tumor Change Measurement, Truth Data and Error. Translational Oncology, 2009, 2, 223-230.	1.7	46
74	Pragmatic fully 3D image reconstruction for the MiCES mouse imaging PET scanner. Physics in Medicine and Biology, 2004, 49, 4563-4578.	1.6	44
75	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. Tomography, 2019, 5, 99-109.	0.8	44
76	Data Acquisition and Image Reconstruction for 3D PET. , 1998, , 11-53.		43
77	Multisite Concordance of DSC-MRI Analysis for Brain Tumors: Results of a National Cancer Institute Quantitative Imaging Network Collaborative Project. American Journal of Neuroradiology, 2018, 39, 1008-1016.	1.2	43
78	The Theory of Three-Dimensional Image Reconstruction for PET. IEEE Transactions on Medical Imaging, 1987, 6, 239-243.	5.4	42
79	A comparison of transform and iterative reconstruction techniques for a volume-imaging PET scanner with a large axial acceptance angle. IEEE Transactions on Nuclear Science, 1995, 42, 2281-2287.	1.2	42
80	Applying a patient-specific bio-mathematical model of glioma growth to develop virtual [18F]-FMISO-PET images. Mathematical Medicine and Biology, 2012, 29, 31-48.	0.8	41
81	Prospective Study of Serial ^{18}F-FDG PET and ^{18}F-Fluoride PET to Predict Time to Skeletal-Related Events, Time to Progression, and Survival in Patients with Bone-Dominant Metastatic Breast Cancer. Journal of Nuclear Medicine, 2018, 59, 1823-1830.	2.8	41
82	Attenuation–emission alignment in cardiac PET/CT based on consistency conditions. Medical Physics, 2010, 37, 1191-1200.	1.6	40
83	Accuracy of CT-based attenuation correction in PET/CT bone imaging. Physics in Medicine and Biology, 2012, 57, 2477-2490.	1.6	40
84	Meta-analysis of the technical performance of an imaging procedure: Guidelines and statistical methodology. Statistical Methods in Medical Research, 2015, 24, 141-174.	0.7	40
85	Comparison of prediction models with radiological semantic features and radiomics in lung cancer diagnosis of the pulmonary nodules: a case-control study. European Radiology, 2019, 29, 6100-6108.	2.3	40
86	Evaluating image reconstruction methods for tumor detection in 3-dimensional whole-body PET oncology imaging. Journal of Nuclear Medicine, 2003, 44, 276-90.	2.8	40
87	A Direct Comparison between Whole-Brain PET and BOLD fMRI Measurements of Single-Subject Activation Response. NeuroImage, 1999, 9, 430-438.	2.1	38
88	Three-dimensional image reconstruction in object space. IEEE Transactions on Nuclear Science, 1988, 35, 635-638.	1.2	37
89	A Comparison of Planar Versus Volumetric Numerical Observers for Detection Task Performance in Whole-Body PET Imaging. IEEE Transactions on Nuclear Science, 2004, 51, 34-40.	1.2	35
90	Image Reconstruction Algorithms in PET. , 2005, , 63-91.		35

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91	Resolution Properties of a Prototype Continuous Miniature Crystal Element (cMiCE) Scanner. IEEE Transactions on Nuclear Science, 2011, 58, 2244-2249.	1.2	35
92	Weight Loss-Induced Plasticity of Glucose Transport and Phosphorylation in the Insulin Resistance of Obesity and Type 2 Diabetes. Diabetes, 2003, 52, 1619-1626.	0.3	34
93	Fast Fully 3-D Image Reconstruction in PET Using Planograms. IEEE Transactions on Medical Imaging, 2004, 23, 413-425.	5.4	34
94	Gas Bubble Motion Artifact in MDCT. American Journal of Roentgenology, 2008, 190, 294-299.	1.0	33
95	Statistical image reconstruction in PET with compensation for missing data. IEEE Transactions on Nuclear Science, 1997, 44, 1552-1557.	1.2	32
96	Measured count-rate performance of the Discovery STE PET/CT scanner in 2D, 3D and partial collimation acquisition modes. Physics in Medicine and Biology, 2008, 53, 3723-3738.	1.6	32
97	A lesion detection observer study comparing 2-dimensional versus fully 3-dimensional whole-body PET imaging protocols. Journal of Nuclear Medicine, 2004, 45, 714-23.	2.8	32
98	An analytic study of the effects of attenuation on tumor detection in whole-body PET oncology imaging. Journal of Nuclear Medicine, 2003, 44, 1855-61.	2.8	31
99	Design Considerations for using PET as a Response Measure in Single Site and Multicenter Clinical Trials. Academic Radiology, 2012, 19, 184-190.	1.3	30
100	Biases in Multicenter Longitudinal PET Standardized Uptake Value Measurements. Translational Oncology, 2014, 7, 48-54.	1.7	30
101	The Use of Quantitative Imaging in Radiation Oncology: A Quantitative Imaging Network (QIN) Perspective. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1219-1235.	0.4	30
102	A Digital Reference Object to Analyze Calculation Accuracy of PET Standardized Uptake Value. Radiology, 2015, 277, 538-545.	3.6	29
103	Effective count rates for PET scanners with reduced and extended axial field of view. Physics in Medicine and Biology, 2011, 56, 3629-3643.	1.6	28
104	Impact of System Design Parameters on Image Figures of Merit for a Mouse PET Scanner. IEEE Transactions on Nuclear Science, 2004, 51, 27-33.	1.2	26
105	Challenges and opportunities in patientâ€specific, motionâ€managed and PET/CTâ€guided radiation therapy of lung cancer: review and perspective. Clinical and Translational Medicine, 2012, 1, 18.	1.7	26
106	Differential hepatic avoidance radiation therapy: Proof of concept in hepatocellular carcinoma patients. Radiotherapy and Oncology, 2015, 115, 203-210.	0.3	26
107	Statistical Issues in Testing Conformance with the Quantitative Imaging Biomarker Alliance (QIBA) Profile Claims. Academic Radiology, 2016, 23, 496-506.	1.3	26
108	Evaluation of lesion detectability in positron emission tomography when using a convergent penalized likelihood image reconstruction method. Journal of Medical Imaging, 2016, 4, 011002.	0.8	25

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109	Measuring total liver function on sulfur colloid SPECT/CT for improved risk stratification and outcome prediction of hepatocellular carcinoma patients. EJNMMI Research, 2016, 6, 57.	1.1	25
110	Tumor-derived Autoantibodies Identify Malignant Pulmonary Nodules. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 1257-1266.	2.5	25
111	Framework for radiation pneumonitis risk stratification based on anatomic and perfused lung dosimetry. Strahlentherapie Und Onkologie, 2017, 193, 410-418.	1.0	24
112	Effect of Reconstruction Algorithms on Myocardial Blood Flow Measurement with 13N-Ammonia PET. Journal of Nuclear Medicine, 2007, 48, 1259-1265.	2.8	23
113	Development of a Single Detector Ring Micro Crystal Element Scanner: QuickPET II. Molecular Imaging, 2005, 4, 153535002005041.	0.7	22
114	Multi€site quality and variability analysis of 3D FDG PET segmentations based on phantom and clinical image data. Medical Physics, 2017, 44, 479-496.	1.6	22
115	Multisite concordance of apparent diffusion coefficient measurements across the NCI Quantitative Imaging Network. Journal of Medical Imaging, 2017, 5, 1.	0.8	22
116	Conceptual design of a whole body PET machine. IEEE Transactions on Nuclear Science, 1988, 35, 680-684.	1.2	21
117	Evaluation of event position reconstruction in monolithic crystals that are optically coupled. Physics in Medicine and Biology, 2016, 61, 8298-8320.	1.6	21
118	Multicenter Clinical Trials Using 18F-FDG PET to Measure Early Response to Oncologic Therapy: Effects of Injection-to-Acquisition Time Variability on Required Sample Size. Journal of Nuclear Medicine, 2016, 57, 226-230.	2.8	21
119	Test€"Retest Reproducibility of ^{18}F-FDG PET/CT Uptake in Cancer Patients Within a Qualified and Calibrated Local Network. Journal of Nuclear Medicine, 2019, 60, 608-614.	2.8	21
120	Positron emission tomography with a large axial acceptance angle: signal-to-noise considerations. IEEE Transactions on Medical Imaging, 1991, 10, 249-255.	5.4	20
121	Multiplexing strategies for monolithic crystal PET detector modules. Physics in Medicine and Biology, 2014, 59, 5347-5360.	1.6	20
122	A phantom design for assessment of detectability in PET imaging. Medical Physics, 2016, 43, 5051-5062.	1.6	20
123	Statistical LOR estimation for a high-resolution dMiCE PET detector. Physics in Medicine and Biology, 2009, 54, 6369-6382.	1.6	19
124	Dual energy CT for attenuation correction with PET/CT. Medical Physics, 2013, 41, 012501.	1.6	19
125	Development of a single detector ring micro crystal element scanner: QuickPET II. Molecular Imaging, 2005, 4, 117-27.	0.7	19
126	Performance assessment of a NaI(Tl) gamma counter for PET applications with methods for improved quantitative accuracy and greater standardization. EJNMMI Physics, 2015, 2, .	1.3	18

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127	Qualification of National Cancer Institute–Designated Cancer Centers for Quantitative PET/CT Imaging in Clinical Trials. Journal of Nuclear Medicine, 2017, 58, 1065-1071.	2.8	18
128	Measured Spatially Variant System Response for PET Image Reconstruction. , 0, , .		17
129	Multimodality molecular imaging of the lung. Journal of Magnetic Resonance Imaging, 2010, 32, 1409-1420.	1.9	17
130	Recommendations for measurement of tumour vascularity with positron emission tomography in early phase clinical trials. European Radiology, 2012, 22, 1465-1478.	2.3	17
131	Impact of CT attenuation correction method on quantitative respiratory–correlated (4D) PET/CT imaging. Medical Physics, 2015, 42, 110-120.	1.6	17
132	Evaluation of Cross-Calibrated 68Ge/68Ga Phantoms for Assessing PET/CT Measurement Bias in Oncology Imaging for Single- and Multicenter Trials. Tomography, 2016, 2, 353-360.	0.8	17
133	Letter to Cancer Center Directors: Progress in Quantitative Imaging As a Means to Predict and/or Measure Tumor Response in Cancer Therapy Trials. Journal of Clinical Oncology, 2014, 32, 2115-2116.	0.8	16
134	The performance of the single-slice rebinning technique for imaging the human striatum as evaluated bp phantom studies. Physics in Medicine and Biology, 1994, 39, 369-380.	1.6	15
135	Ultra-low dose CT attenuation correction for PET/CT: analysis of sparse view data acquisition and reconstruction algorithms. Physics in Medicine and Biology, 2015, 60, 7437-7460.	1.6	15
136	Respiratory trace feature analysis for the prediction of respiratory-gated PET quantification. Physics in Medicine and Biology, 2014, 59, 1027-1045.	1.6	14
137	A virtual clinical trial comparing static versus dynamic PET imaging in measuring response to breast cancer therapy. Physics in Medicine and Biology, 2017, 62, 3639-3655.	1.6	14
138	Comparison of regional lung perfusion response on longitudinal MAA SPECT/CT in lung cancer patients treated with and without functional tissue-avoidance radiation therapy. British Journal of Radiology, 2019, 92, 20190174.	1.0	14
139	Distribution of 1-(2-Deoxy-2-fluoro-β-d-arabinofuranosyl) Uracil in Mice Bearing Colorectal Cancer Xenografts. Clinical Cancer Research, 2004, 10, 6669-6676.	3.2	13
140	PET instrumentation. Radiologic Clinics of North America, 2004, 42, 1003-1016.	0.9	13
141	<i>In silico</i> analysis suggests differential response to bevacizumab and radiation combination therapy in newly diagnosed glioblastoma. Journal of the Royal Society Interface, 2015, 12, 20150388.	1.5	13
142	Task Group 174 Report: Utilization of [18 F]Fluorodeoxyglucose Positron Emission Tomography ([18) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.6	13
143	Improved model prediction of glioma growth utilizing tissue-specific boundary effects. Mathematical Biosciences, 2019, 312, 59-66.	0.9	13
144	Clinical imaging characteristics of the positron emission mammography PEM Flex Solo II. , 2008, 11, 4494-4501.		12

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145	Quantification of radiotracer uptake with a dedicated breast PET imaging system. Medical Physics, 2008, 35, 4989-4997.	1.6	12
146	Effect of 18F-FDG Uptake Time on Lesion Detectability in PET Imaging of Early-Stage Breast Cancer. Tomography, 2015, 1, 53-60.	0.8	12
147	Morphology supporting function: attenuation correction for SPECT/CT, PET/CT, and PET/MR imaging. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2016, 60, 25-39.	0.4	12
148	Position estimation and error correction in a 2D position-sensitive NaI(Tl) detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 299, 484-489.	0.7	11
149	Application of a spatially variant system model for 3-D whole-body pet image reconstruction. , 2008, 2008, 1315-1318.		11
150	Effects of Detector Thickness on Geometric Sensitivity and Event Positioning Errors in the Rectangular PET/X Scanner. IEEE Transactions on Nuclear Science, 2013, 60, 3242-3252.	1.2	11
151	Multicenter trials using 18F-fluorodeoxyglucose (FDG) PET to predict chemotherapy response: Effects of differential measurement error and bias on power calculations for unselected and enrichment designs. Clinical Trials, 2013, 10, 886-895.	0.7	11
152	A Virtual Clinical Trial of FDG-PET Imaging of Breast Cancer: Effect of Variability on Response Assessment. Translational Oncology, 2014, 7, 138-146.	1.7	11
153	Impact of tumour motion compensation and delineation methods on <scp>FDG PET</scp>â€based dose painting plan quality for <scp>NSCLC</scp> radiation therapy. Journal of Medical Imaging and Radiation Oncology, 2018, 62, 81-90.	0.9	11
154	18F-fluorodeoxyglucose (FDG) PET or 18F-fluorothymidine (FLT) PET to assess early response to aromatase inhibitors (AI) in women with ER+ operable breast cancer in a window-of-opportunity study. Breast Cancer Research, 2021, 23, 88.	2.2	11
155	Toward the design of a positron volume imaging camera. IEEE Transactions on Nuclear Science, 1990, 37, 789-794.	1.2	10
156	Analytic Image Reconstruction Methods. , 2004, , 421-442.		10
157	The Effects of Object Size, Attenuation, Scatter, and Random Coincidences on Signal to Noise Ratio in Simulations of Time-of-Flight Positron Emission Tomography. , 0, , .		10
158	Voxel Forecast for Precision Oncology: Predicting Spatially Variant and Multiscale Cancer Therapy Response on Longitudinal Quantitative Molecular Imaging. Clinical Cancer Research, 2019, 25, 5027-5037.	3.2	10
159	Postinjection single photon transmission tomography with ordered-subset algorithms for whole-body PET imaging. IEEE Transactions on Nuclear Science, 2002, 49, 74-81.	1.2	9
160	Quantitative attenuation correction for PET/CT using iterative reconstruction of low-dose dual-energy CT. , 0, , .		9
161	Early experiences in establishing a regional quantitative imaging network for PET/CT clinical trials. Magnetic Resonance Imaging, 2012, 30, 1291-1300.	1.0	9
162	AAPM/SNMMI Joint Task Force: report on the current state of nuclear medicine physics training. Journal of Applied Clinical Medical Physics, 2015, 16, 3-13.	0.8	9

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163	Imaging and dosimetric errors in 4D PET/CT-guided radiotherapy from patient-specific respiratory patterns: a dynamic motion phantom end-to-end study. Physics in Medicine and Biology, 2015, 60, 3731-3746.	1.6	9
164	Performance Observations of Scanner Qualification of NCI-Designated Cancer Centers: Results From the Centers of Quantitative Imaging Excellence (CQIE) Program. Academic Radiology, 2017, 24, 232-245.	1.3	9
165	PET/CT acceptance testing and quality assurance: Executive summary of AAPM Task Group 126 Report. Medical Physics, 2021, 48, e31-e35.	1.6	9
166	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. Clinical Nuclear Medicine, 2021, 46, 861-871.	0.7	9
167	Virtual Clinical Trials: Why and What (Special Section Guest Editorial). Journal of Medical Imaging, 2020, 7, 1.	0.8	9
168	Analytical reconstruction of deconvolved Fourier rebinned PET sinograms. Physics in Medicine and Biology, 2006, 51, 77-93.	1.6	8
169	A robust state-space kinetics-guided framework for dynamic PET image reconstruction. Physics in Medicine and Biology, 2011, 56, 2481-2498.	1.6	8
170	Overview and a Word of Thanks. Medical Physics, 2013, 40, 4-5.	1.6	8
171	The Value of Establishing the Quantitative Accuracy of PET/CT Imaging. Journal of Nuclear Medicine, 2015, 56, 1133-1134.	2.8	8
172	Comparison of prone versus supine 18F-FDG-PET of locally advanced breast cancer: Phantom and preliminary clinical studies. Medical Physics, 2015, 42, 3801-3813.	1.6	8
173	Bone material analogues for PET/MRI phantoms. Medical Physics, 2020, 47, 2161-2170.	1.6	8
174	Fast PET EM reconstruction from linograms. IEEE Transactions on Nuclear Science, 2003, 50, 1630-1635.	1.2	7
175	A Quantitative Approach to a Weight-Based Scanning Protocol for PET Oncology Imaging. , 0, , .		7
176	Optimization of Noise Equivalent Count Rate Performance for a Partially Collimated PET Scanner by Varying the Number of Septa. IEEE Transactions on Medical Imaging, 2007, 26, 935-944.	5.4	7
177	Dual-radioisotope PET data acquisition and analysis. , 2011, , .		7
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