Ronald Boellaard

List of Publications by Year
in descending order

526 papers	28,156 citations	8159 76 h-index	8370 147 g-index
574 all docs	574 docs citations	574 times ranked	23898 citing authors

#	Article	IF	Citations
1	FDG PET/CT: EANM procedure guidelines for tumour imaging: version 2.0. European Journal of Nuclear Medicine and Molecular Imaging, 2015, 42, 328-354.	3.3	2,188
2	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. Radiology, 2020, 295, 328-338.	3.6	1,869
3	FDG PET and PET/CT: EANM procedure guidelines for tumour PET imaging: version 1.0. European Journal of Nuclear Medicine and Molecular Imaging, 2010, 37, 181-200.	3.3	1,147
4	Imaging biomarker roadmap for cancer studies. Nature Reviews Clinical Oncology, 2017, 14, 169-186.	12.5	792
5	Standards for PET Image Acquisition and Quantitative Data Analysis. Journal of Nuclear Medicine, 2009, 50, 11S-20S.	2.8	720
6	Microglia Activation in Recent-Onset Schizophrenia: A Quantitative (R)-[11C]PK11195 Positron Emission Tomography Study. Biological Psychiatry, 2008, 64, 820-822.	0.7	534
7	89Zr-atezolizumab imaging as a non-invasive approach to assess clinical response to PD-L1 blockade in cancer. Nature Medicine, 2018, 24, 1852-1858.	15.2	468
8	Effects of noise, image resolution, and ROI definition on the accuracy of standard uptake values: a simulation study. Journal of Nuclear Medicine, 2004, 45, 1519-27.	2.8	433
9	Stability of FDG-PET Radiomics features: An integrated analysis of test-retest and inter-observer variability. Acta Oncológica, 2013, 52, 1391-1397.	0.8	353
10	Joint EANM/EANO/RANO practice guidelines/SNMMI procedure standards for imaging of gliomas using PET with radiolabelled amino acids and [18F]FDG: version 1.0. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 540-557.	3.3	348
11	The Netherlands protocol for standardisation and quantification of FDG whole body PET studies in multi-centre trials. European Journal of Nuclear Medicine and Molecular Imaging, 2008, 35, 2320-2333.	3.3	343
12	Δ9-Tetrahydrocannabinol Induces Dopamine Release in the Human Striatum. Neuropsychopharmacology, 2009, 34, 759-766.	2.8	341
13	Whole body PD-1 and PD-L1 positron emission tomography in patients with non-small-cell lung cancer. Nature Communications, 2018, 9, 4664.	5.8	331
14	The effect of SUV discretization in quantitative FDG-PET Radiomics: the need for standardized methodology in tumor texture analysis. Scientific Reports, 2015, 5, 11075.	1.6	318
15	Performance Characteristics of the Digital Biograph Vision PET/CT System. Journal of Nuclear Medicine, 2019, 60, 1031-1036.	2.8	316
16	Performance evaluation of the ECAT HRRT: an LSO-LYSO double layer high resolution, high sensitivity scanner. Physics in Medicine and Biology, 2007, 52, 1505-1526.	1.6	301
17	Quantification of FDG PET studies using standardised uptake values in multi-centre trials: effects of image reconstruction, resolution and ROI definition parameters. European Journal of Nuclear Medicine and Molecular Imaging, 2007, 34, 392-404.	3.3	268
18	89Zr immuno-PET: comprehensive procedures for the production of 89Zr-labeled monoclonal antibodies. Journal of Nuclear Medicine, 2003, 44, 1271-81.	2.8	264

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19	Effects of ROI definition and reconstruction method on quantitative outcome and applicability in a response monitoring trial. European Journal of Nuclear Medicine and Molecular Imaging, 2005, 32, 294-301.	3.3	247
20	Repeatability of Radiomic Features in Non-Small-Cell Lung Cancer [18F]FDG-PET/CT Studies: Impact of Reconstruction and Delineation. Molecular Imaging and Biology, 2016, 18, 788-795.	1.3	214
21	Performance of Immuno–Positron Emission Tomography with Zirconium-89-Labeled Chimeric Monoclonal Antibody U36 in the Detection of Lymph Node Metastases in Head and Neck Cancer Patients. Clinical Cancer Research, 2006, 12, 2133-2140.	3.2	207
22	EANM/EARL harmonization strategies in PET quantification: from daily practice to multicentre oncological studies. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 17-31.	3.3	206
23	Early Prediction of Nonprogression in Advanced Non–Small-Cell Lung Cancer Treated With Erlotinib By Using [18F]Fluorodeoxyglucose and [18F]Fluorothymidine Positron Emission Tomography. Journal of Clinical Oncology, 2011, 29, 1701-1708.	0.8	170
24	Standardised FDG uptake: A prognostic factor for inoperable non-small cell lung cancer. European Journal of Cancer, 2005, 41, 1533-1541.	1.3	169
25	Evaluation of a cumulative SUV-volume histogram method for parameterizing heterogeneous intratumoural FDG uptake in non-small cell lung cancer PET studies. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 1636-1647.	3.3	163
26	Relationship of Cerebrospinal Fluid Markers to ^{11}C-PiB and ^{18}F-FDDNP Binding. Journal of Nuclear Medicine, 2009, 50, 1464-1470.	2.8	162
27	Quantification, improvement, and harmonization of small lesion detection with state-of-the-art PET. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 4-16.	3.3	156
28	Radiation Dosimetry of [89]Zr-Labeled Chimeric Monoclonal Antibody U36 as Used for Immuno-PET in Head and Neck Cancer Patients. Journal of Nuclear Medicine, 2009, 50, 1828-1836.	2.8	154
29	Repeatability of ^{18}F-FDG Uptake Measurements in Tumors: A Metaanalysis. Journal of Nuclear Medicine, 2012, 53, 701-708.	2.8	149
30	Quantifying heterogeneity in human tumours using MRI and PET. European Journal of Cancer, 2012, 48, 447-455.	1.3	149
31	Reduced GABAA benzodiazepine receptor binding in veterans with post-traumatic stress disorder. Molecular Psychiatry, 2008, 13, 74-83.	4.1	148
32	Longitudinal Amyloid Imaging Using ^{11}C-PiB: Methodologic Considerations. Journal of Nuclear Medicine, 2013, 54, 1570-1576.	2.8	148
33	Evaluation of Reference Tissue Models for the Analysis of [11C](R)-PK11195 Studies. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 1431-1441.	2.4	145
34	Longitudinal imaging of Alzheimer pathology using [11C]PIB, [18F]FDDNP and [18F]FDG PET. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 990-1000.	3.3	145
35	Microglial activation in Alzheimer's disease: an (R)-[11C]PK11195 positron emission tomography study. Neurobiology of Aging, 2013, 34, 128-136.	1.5	145
36	Need for Standardization of ^{18}F-FDG PET/CT for Treatment Response Assessments. Journal of Nuclear Medicine, 2011, 52, 93S-100S.	2.8	137

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37	Characteristics of a new fully programmable blood sampling device for monitoring blood radioactivity during PET. European Journal of Nuclear Medicine and Molecular Imaging, 2001, 28, 81-89.	2.2	136
38	EANM practice guideline/SNMMI procedure standard for dopaminergic imaging in Parkinsonian syndromes 1.0. European Journal of Nuclear Medicine and Molecular Imaging, 2020, 47, 1885-1912.	3.3	134
39	Mutatis Mutandis: Harmonize the Standard!. Journal of Nuclear Medicine, 2012, 53, 1-3.	2.8	133
40	Dopaminergic activity in Tourette syndrome and obsessive-compulsive disorder. European Neuropsychopharmacology, 2013, 23, 1423-1431.	0.3	133
41	Accuracy and precision of pseudo-continuous arterial spin labeling perfusion during baseline and hypercapnia: A head-to-head comparison with 15O H_2O positron emission tomography. NeuroImage, 2014, 92, 182-192.	2.1	133
42	Repeatability of ^{18}F-FDG PET in a Multicenter Phase I Study of Patients with Advanced Gastrointestinal Malignancies. Journal of Nuclear Medicine, 2009, 50, 1646-1654.	2.8	129
43	Partial volume correction strategies for quantitative FDG PET in oncology. European Journal of Nuclear Medicine and Molecular Imaging, 2010, 37, 1679-1687.	3.3	128
44	Partial volume corrected image derived input functions for dynamic PET brain studies: Methodology and validation for [11C]flumazenil. NeuroImage, 2008, 39, 1041-1050.	2.1	127
45	P-Glycoprotein Function at the Blood–Brain Barrier: Effects of Age and Gender. Molecular Imaging and Biology, 2012, 14, 771-776.	1.3	127
46	Microglial activation in healthy aging. Neurobiology of Aging, 2012, 33, 1067-1072.	1.5	125
47	Optimization of Supervised Cluster Analysis for Extracting Reference Tissue Input Curves in (*R*)-[^{11}C]PK11195 Brain PET Studies. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1600-1608.	2.4	120
48	Detection of Alzheimer Pathology In Vivo Using Both ^{11}C-PIB and ^{18}F-FDDNP PET. Journal of Nuclear Medicine, 2009, 50, 191-197.	2.8	119
49	Arterial Spin Labeling Perfusion MRI at Multiple Delay Times: A Correlative Study with H_2[15]O Positron Emission Tomography in Patients with Symptomatic Carotid Artery Occlusion. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 222-229.	2.4	117
50	Experimental and clinical evaluation of iterative reconstruction (OSEM) in dynamic PET: quantitative characteristics and effects on kinetic modeling. Journal of Nuclear Medicine, 2001, 42, 808-17.	2.8	114
51	Long-Lived Positron Emitters Zirconium-89 and Iodine-124 for Scouting of Therapeutic Radioimmunoconjugates with PET. Cancer Biotherapy and Radiopharmaceuticals, 2003, 18, 655-661.	0.7	111
52	Amyloid burden and metabolic function in early-onset Alzheimer's disease: parietal lobe involvement. Brain, 2012, 135, 2115-2125.	3.7	109
53	(R)- and (S)-[11C]verapamil as PET-tracers for measuring P-glycoprotein function: in vitro and in vivo evaluation. Nuclear Medicine and Biology, 2003, 30, 747-751.	0.3	106
54	89Zr-cetuximab PET imaging in patients with advanced colorectal cancer. Oncotarget, 2015, 6, 30384-30393.	0.8	106

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55	^{18}F-FDG PET as a Tool to Predict the Clinical Outcome of Infliximab Treatment of Rheumatoid Arthritis: An Explorative Study. Journal of Nuclear Medicine, 2011, 52, 77-80.	2.8	104
56	EANM/EARL FDG-PET/CT accreditation - summary results from the first 200 accredited imaging systems. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 412-422.	3.3	104
57	Evaluation of Basis Function and Linear Least Squares Methods for Generating Parametric Blood Flow Images Using 15O-Water and Positron Emission Tomography. Molecular Imaging and Biology, 2005, 7, 273-285.	1.3	101
58	Determinants of coronary microvascular dysfunction in symptomatic hypertrophic cardiomyopathy. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H986-H993.	1.5	101
59	Feasibility of state of the art PET/CT systems performance harmonisation. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 1344-1361.	3.3	100
60	Differential effect of *APOE* genotype on amyloid load and glucose metabolism in AD dementia. Neurology, 2013, 80, 359-365.	1.5	99
61	Quantification of [^{18}F]DPA-714 Binding in the Human Brain: Initial Studies in Healthy Controls and Alzheimer'S Disease Patients. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 766-772.	2.4	99
62	Amygdala activity in obsessive-compulsive disorder with contamination fear: a study with oxygen-15 water positron emission tomography. Psychiatry Research - Neuroimaging, 2004, 132, 225-237.	0.9	98
63	Repeatability of Metabolically Active Volume Measurements with[18]F-FDG and[18]F-FLT PET in Non–Small Cell Lung Cancer. Journal of Nuclear Medicine, 2010, 51, 1870-1877.	2.8	98
64	Noninvasive imaging of macrophages in rheumatoid synovitis using [11]C‐(*R*)‐PK11195 and positron emission tomography. Arthritis and Rheumatism, 2008, 58, 3350-3355.	6.7	97
65	Impact of [18F]FDG PET imaging parameters on automatic tumour delineation: need for improved tumour delineation methodology. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 2136-2144.	3.3	96
66	A Guide to ComBat Harmonization of Imaging Biomarkers in Multicenter Studies. Journal of Nuclear Medicine, 2022, 63, 172-179.	2.8	96
67	Fluorodeoxyglucose Positron Emission Tomography for Evaluating Early Response During Neoadjuvant Chemoradiotherapy in Patients With Potentially Curable Esophageal Cancer. Annals of Surgery, 2011, 253, 56-63.	2.1	94
68	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
69	Image-derived input functions for determination of MRGlu in cardiac (18)F-FDG PET scans. Journal of Nuclear Medicine, 2001, 42, 1622-9.	2.8	88
70	Evaluation of Tracer Kinetic Models for Quantification of P-Glycoprotein Function using (R)-[11C]Verapamil and PET. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 424-433.	2.4	87
71	Simplified parametric methods for [11C]PIB studies. NeuroImage, 2008, 42, 76-86.	2.1	85
72	Machine learning-based analysis of [18F]DCFPyL PET radiomics for risk stratification in primary prostate cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 340-349.	3.3	84

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73	New Method to Obtain the Midplane Dose Using Portal In Vivo Dosimetry. International Journal of Radiation Oncology Biology Physics, 1998, 41, 465-474.	0.4	83
74	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
75	Repeatability of Metabolically Active Tumor Volume Measurements with FDG PET/CT in Advanced Gastrointestinal Malignancies: A Multicenter Study. Radiology, 2014, 273, 539-548.	3.6	82
76	EANM procedure guidelines for brain PET imaging using [18F]FDG, version 3. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 632-651.	3.3	82
77	Optimization algorithms and weighting factors for analysis of dynamic PET studies. Physics in Medicine and Biology, 2006, 51, 4217-4232.	1.6	81
78	Repeatability of ^{18}F‑FDG PET radiomic features: A phantom study to explore sensitivity to image reconstruction settings, noise, and delineation method. Medical Physics, 2019, 46, 665-678.	1.6	81
79	Quantitative Imaging Test Approval and Biomarker Qualification: Interrelated but Distinct Activities. Radiology, 2011, 259, 875-884.	3.6	80
80	Cerebral perfusion and glucose metabolism in Alzheimer's disease and frontotemporal dementia: two sides of the same coin?. European Radiology, 2015, 25, 3050-3059.	2.3	80
81	Reduced parahippocampal and lateral temporal GABAA-[11C]flumazenil binding in major depression: preliminary results. European Journal of Nuclear Medicine and Molecular Imaging, 2010, 37, 565-574.	3.3	79
82	Accurate PET/MR Quantification Using Time of Flight MLAA Image Reconstruction. Molecular Imaging and Biology, 2014, 16, 469-477.	1.3	78
83	Transmission dosimetry with a liquid-filled electronic portal imaging device. International Journal of Radiation Oncology Biology Physics, 1996, 34, 931-941.	0.4	76
84	Comparative Study With New Accuracy Metrics for Target Volume Contouring in PET Image Guided Radiation Therapy. IEEE Transactions on Medical Imaging, 2012, 31, 2006-2024.	5.4	75
85	Optimized dose regimen for whole-body FDG-PET imaging. EJNMMI Research, 2013, 3, 63.	1.1	73
86	Widespread and Prolonged Increase in (R)-^{11}C-PK11195 Binding After Traumatic Brain Injury. Journal of Nuclear Medicine, 2011, 52, 1235-1239.	2.8	72
87	Quantitative 89Zr immuno-PET for in vivo scouting of 90Y-labeled monoclonal antibodies in xenograft-bearing nude mice. Journal of Nuclear Medicine, 2003, 44, 1663-70.	2.8	72
88	Reproducibility of quantitative 18F-3′-deoxy-3′-fluorothymidine measurements using positron emission tomography. European Journal of Nuclear Medicine and Molecular Imaging, 2009, 36, 389-395.	3.3	71
89	In vivo imaging of the 18-kDa translocator protein (TSPO) with [18F]FEDAA1106 and PET does not show increased binding in Alzheimer's disease patients. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 921-931.	3.3	71
90	Development of a Tracer Kinetic Plasma Input Model for (R)-[11C]PK11195 Brain Studies. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 842-851.	2.4	68

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91	Dynamic risk assessment based on positron emission tomography scanning in diffuse large B-cell lymphoma: Post-hoc analysis from the PETAL trial. European Journal of Cancer, 2020, 124, 25-36.	1.3	67
92	Impact of anatomical and functional severity of coronary atherosclerotic plaques on the transmural perfusion gradient: a [15O]H2O PET study. European Heart Journal, 2014, 35, 2094-2105.	1.0	66
93	Quantitative Analysis of Response to Treatment with Erlotinib in Advanced Non–Small Cell Lung Cancer Using 18F-FDG and 3′-Deoxy-3′-18F-Fluorothymidine PET. Journal of Nuclear Medicine, 2011, 52, 1871-1877.	2.8	65
94	Measuring response to therapy using FDG PET: semi-quantitative and full kinetic analysis. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 832-842.	3.3	63
95	Multicenter Harmonization of 89Zr PET/CT Performance. Journal of Nuclear Medicine, 2014, 55, 264-267.	2.8	63
96	In vivo (R)-[11C]PK11195 PET imaging of 18kDa translocator protein in recent onset psychosis. NPJ Schizophrenia, 2016, 2, 16031.	2.0	63
97	First clinical tests using a liquid-filled electronic portal imaging device and a convolution model for the verification of the midplane dose. Radiotherapy and Oncology, 1998, 47, 303-312.	0.3	62
98	Test-retest variability of quantitative [11C]PIB studies in Alzheimer's disease. European Journal of Nuclear Medicine and Molecular Imaging, 2009, 36, 1629-1638.	3.3	62
99	Investigating the state-of-the-art in whole-body MR-based attenuation correction: an intra-individual, inter-system, inventory study on three clinical PET/MR systems. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 75-87.	1.1	62
100	18F-FDG PET baseline radiomics features improve the prediction of treatment outcome in diffuse large B-cell lymphoma. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 932-942.	3.3	62
101	A convolution model to convert transmission dose images to exit dose distributions. Medical Physics, 1997, 24, 189-199.	1.6	61
102	Validated imaging biomarkers as decision-making tools in clinical trials and routine practice: current status and recommendations from the EIBALL* subcommittee of the European Society of Radiology (ESR). Insights Into Imaging, 2019, 10, 87.	1.6	61
103	Effects of Image Characteristics on Performance of Tumor Delineation Methods: A Test–Retest Assessment. Journal of Nuclear Medicine, 2011, 52, 1550-1558.	2.8	60
104	RaCaT: An open source and easy to use radiomics calculator tool. PLoS ONE, 2019, 14, e0212223.	1.1	60
105	Pelvic lymph-node staging with 18F-DCFPyL PET/CT prior to extended pelvic lymph-node dissection in primary prostate cancer - the SALT trial -. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 509-520.	3.3	60
106	HRRT Versus HR+ Human Brain PET Studies: An Interscanner Test–Retest Study. Journal of Nuclear Medicine, 2009, 50, 693-702.	2.8	59
107	Increased cerebral (R)-[11C]PK11195 uptake and glutamate release in a rat model of traumatic brain injury: a longitudinal pilot study. Journal of Neuroinflammation, 2011, 8, 67.	3.1	59
108	Improved detection of diffuse glioma infiltration with imaging combinations: a diagnostic accuracy study. Neuro-Oncology, 2020, 22, 412-422.	0.6	59

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109	Assessment of tumour size in PET/CT lung cancer studies: PET- and CT-based methods compared to pathology. EJNMMI Research, 2012, 2, 56.	1.1	57
110	Current Image Acquisition Options in PET/MR. Seminars in Nuclear Medicine, 2015, 45, 192-200.	2.5	57
111	Image Quality and Semiquantitative Measurements on the Biograph Vision PET/CT System: Initial Experiences and Comparison with the Biograph mCT. Journal of Nuclear Medicine, 2020, 61, 129-135.	2.8	56
112	18FDG uptake in oesophageal adenocarcinoma: linking biology and outcome. Journal of Cancer Research and Clinical Oncology, 2008, 134, 227-236.	1.2	55
113	Day-to-Day Test–Retest Variability of CBF, CMRO2, and OEF Measurements Using Dynamic 15O PET Studies. Molecular Imaging and Biology, 2011, 13, 759-768.	1.3	55
114	18F-FDG PET image biomarkers improve prediction of late radiation-induced xerostomia. Radiotherapy and Oncology, 2018, 126, 89-95.	0.3	55
115	Multitracer model for staging cortical amyloid deposition using PET imaging. Neurology, 2020, 95, e1538-e1553.	1.5	55
116	Experimental Multicenter and Multivendor Evaluation of the Performance of PET Radiomic Features Using 3-Dimensionally Printed Phantom Inserts. Journal of Nuclear Medicine, 2020, 61, 469-476.	2.8	54
117	Quantification of PD-L1 Expression with ^{18}F-BMS-986192 PET/CT in Patients with Advanced-Stage Non–Small Cell Lung Cancer. Journal of Nuclear Medicine, 2020, 61, 1455-1460.	2.8	54
118	Two-dimensional exit dosimetry using a liquid-filled electronic portal imaging device and a convolution model. Radiotherapy and Oncology, 1997, 44, 149-157.	0.3	53
119	Evaluation of Reference Regions for (R)-[11C]PK11195 Studies in Alzheimer's Disease and Mild Cognitive Impairment. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 1965-1974.	2.4	53
120	Repeatability of Quantitative Whole-Body ^{18}F-FDG PET/CT Uptake Measures as Function of Uptake Interval and Lesion Selection in Non–Small Cell Lung Cancer Patients. Journal of Nuclear Medicine, 2016, 57, 1343-1349.	2.8	53
121	Automated Segmentation of Baseline Metabolic Total Tumor Burden in Diffuse Large B-Cell Lymphoma: Which Method Is Most Successful? A Study on Behalf of the PETRA Consortium. Journal of Nuclear Medicine, 2021, 62, 332-337.	2.8	53
122	Incorporating radiomics into clinical trials: expert consensus endorsed by the European Society of Radiology on considerations for data-driven compared to biologically driven quantitative biomarkers. European Radiology, 2021, 31, 6001-6012.	2.3	53
123	Proposed New Dynamic Prognostic Index for Diffuse Large B-Cell Lymphoma: International Metabolic Prognostic Index. Journal of Clinical Oncology, 2022, 40, 2352-2360.	0.8	53
124	High-quality 124I-labelled monoclonal antibodies for use as PET scouting agents prior to 131I-radioimmunotherapy. European Journal of Nuclear Medicine and Molecular Imaging, 2004, 31, 1645-1652.	3.3	52
125	Comparison of Plasma Input and Reference Tissue Models for Analysing [^{11}C]flumazenil Studies. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 579-587.	2.4	52
126	Integration of FDG- PET/CT into external beam radiation therapy planning. Nuklearmedizin - NuclearMedicine, 2012, 51, 140-153.	0.3	52

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127	Does Myocardial Fibrosis Hinder Contractile Function and Perfusion in Idiopathic Dilated Cardiomyopathy? PET and MR Imaging Study. Radiology, 2006, 240, 380-388.	3.6	51
128	Image-derived input functions for PET brain studies. European Journal of Nuclear Medicine and Molecular Imaging, 2009, 36, 463-471.	3.3	51
129	Long-term effects of amyloid, hypometabolism, and atrophy on neuropsychological functions. Neurology, 2014, 82, 1768-1775.	1.5	51
130	Quality control for quantitative multicenter whole‐body PET/MR studies: A NEMA image quality phantom study with three current PET/MR systems. Medical Physics, 2015, 42, 5961-5969.	1.6	51
131	The dose response relationship of a liquid-filled electronic portal imaging device. Medical Physics, 1996, 23, 1601-1611.	1.6	50
132	Radiomics analysis of pre-treatment [18F]FDG PET/CT for patients with metastatic colorectal cancer undergoing palliative systemic treatment. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 2307-2317.	3.3	50
133	Bone formation rather than inflammation reflects Ankylosing Spondylitis activity on PET-CT: a pilot study. Arthritis Research and Therapy, 2012, 14, R71.	1.6	49
134	Impact of PET/CT image reconstruction methods and liver uptake normalization strategies on quantitative image analysis. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 249-258.	3.3	49
135	The QIBA Profile for FDG PET/CT as an Imaging Biomarker Measuring Response to Cancer Therapy. Radiology, 2020, 294, 647-657.	3.6	49
136	Outcome prediction of head and neck squamous cell carcinoma by MRI radiomic signatures. European Radiology, 2020, 30, 6311-6321.	2.3	49
137	PET imaging of zirconium-89 labelled cetuximab: A phase I trial in patients with head and neck and lung cancer. Radiotherapy and Oncology, 2017, 122, 267-273.	0.3	48
138	Androgen and Estrogen Receptor Imaging in Metastatic Breast Cancer Patients as a Surrogate for Tissue Biopsies. Journal of Nuclear Medicine, 2017, 58, 1906-1912.	2.8	48
139	Monitoring of response to pre-operative chemoradiation in combination with hyperthermia in oesophageal cancer by FDG-PET. International Journal of Hyperthermia, 2006, 22, 149-160.	1.1	47
140	Tumor Lesion Glycolysis and Tumor Lesion Proliferation for Response Prediction and Prognostic Differentiation in Patients With Advanced Non–Small Cell Lung Cancer Treated With Erlotinib. Clinical Nuclear Medicine, 2012, 37, 1058-1064.	0.7	47
141	Guidelines for the content and format of PET brain data in publications and archives: A consensus paper. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1576-1585.	2.4	47
142	In vivo tau pathology is associated with synaptic loss and altered synaptic function. Alzheimer's Research and Therapy, 2021, 13, 35.	3.0	47
143	Comparative biodistribution analysis across four different ^{89}Zr-monoclonal antibody tracers–The first step towards an imaging warehouse. Theranostics, 2018, 8, 4295-4304.	4.6	46
144	Importance of fluorodeoxyglucose-positron emission tomography (FDG-PET) and endoscopic ultrasonography parameters in predicting survival following surgery for esophageal cancer. Endoscopy, 2008, 40, 464-471.	1.0	45

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145	Differential association of [¹¹ C]PIB and [¹⁸ F]FDDNP binding with cognitive impairment. Neurology, 2009, 73, 2079-2085.	1.5	45
146	Reproducibility of quantitative (R)-[11C]verapamil studies. EJNMMI Research, 2012, 2, 1.	1.1	45
147	Reproducibility of Tumor Perfusion Measurements Using ¹⁵O-Labeled Water and PET. Journal of Nuclear Medicine, 2008, 49, 1763-1768.	2.8	44
148	Study of ⁸⁹Zr-Pembrolizumab PET/CT in Patients With Advanced-Stage Non–Small Cell Lung Cancer. Journal of Nuclear Medicine, 2022, 63, 362-367.	2.8	44
149	Predictive value of early and late residual 18F-fluorodeoxyglucose and 18F-fluorothymidine uptake using different SUV measurements in patients with non-small-cell lung cancer treated with erlotinib. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 1117-1127.	3.3	43
150	Pilot study of 89Zr-bevacizumab positron emission tomography in patients with advanced non-small cell lung cancer. EJNMMI Research, 2014, 4, 35.	1.1	43
151	Functional imaging early during (chemo)radiotherapy for response prediction in head and neck squamous cell carcinoma; a systematic review. Oral Oncology, 2019, 88, 75-83.	0.8	43
152	Quantification of Tau Load Using [18F]AV1451 PET. Molecular Imaging and Biology, 2017, 19, 963-971.	1.3	42
153	Diagnostic Accuracy of Neuroimaging to Delineate Diffuse Gliomas within the Brain: A Meta-Analysis. American Journal of Neuroradiology, 2017, 38, 1884-1891.	1.2	42
154	The engagement of FDG PET/CT image quality and harmonized quantification: from competitive to complementary. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 1-4.	3.3	41
155	Image Quality and Activity Optimization in Oncologic ¹⁸F-FDG PET Using the Digital Biograph Vision PET/CT System. Journal of Nuclear Medicine, 2020, 61, 764-771.	2.8	41
156	Perfusable tissue index as a potential marker of fibrosis in patients with idiopathic dilated cardiomyopathy. Journal of Nuclear Medicine, 2004, 45, 1299-304.	2.8	41
157	Accuracy of 3-Dimensional Reconstruction Algorithms for the High-Resolution Research Tomograph. Journal of Nuclear Medicine, 2009, 50, 72-80.	2.8	40
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