Ronald Boellaard

List of Publications by Year
in descending order

526 papers	28,156 citations	8181 76 h-index	8396 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.	6.4	2,188
2	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. Radiology, 2020, 295, 328-338.	7.3	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.	6.4	1,147
4	Imaging biomarker roadmap for cancer studies. Nature Reviews Clinical Oncology, 2017, 14, 169-186.	27.6	792
5	Standards for PET Image Acquisition and Quantitative Data Analysis. Journal of Nuclear Medicine, 2009, 50, 11S-20S.	5.0	720
6	Microglia Activation in Recent-Onset Schizophrenia: A Quantitative (R)-[11C]PK11195 Positron Emission Tomography Study. Biological Psychiatry, 2008, 64, 820-822.	1.3	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.	30.7	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.	5.0	433
9	Stability of FDG-PET Radiomics features: An integrated analysis of test-retest and inter-observer variability. Acta OncolÃ³gica, 2013, 52, 1391-1397.	1.8	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.	6.4	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.	6.4	343
12	Î”9-Tetrahydrocannabinol Induces Dopamine Release in the Human Striatum. Neuropsychopharmacology, 2009, 34, 759-766.	5.4	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.	12.8	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.	3.3	318
15	Performance Characteristics of the Digital Biograph Vision PET/CT System. Journal of Nuclear Medicine, 2019, 60, 1031-1036.	5.0	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.	3.0	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.	6.4	268
18	89Zr immuno-PET: comprehensive procedures for the production of 89Zr-labeled monoclonal antibodies. Journal of Nuclear Medicine, 2003, 44, 1271-81.	5.0	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.	6.4	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.	2.6	214
21	Performance of Immunoâ€“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.	7.0	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.	6.4	206
23	Early Prediction of Nonprogression in Advanced Nonâ€“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.	1.6	170
24	Standardised FDG uptake: A prognostic factor for inoperable non-small cell lung cancer. European Journal of Cancer, 2005, 41, 1533-1541.	2.8	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.	6.4	163
26	Relationship of Cerebrospinal Fluid Markers to¹¹C-PiB and¹⁸F-FDDNP Binding. Journal of Nuclear Medicine, 2009, 50, 1464-1470.	5.0	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.	6.4	156
28	Radiation Dosimetry of ⁸⁹Zr-Labeled Chimeric Monoclonal Antibody U36 as Used for Immuno-PET in Head and Neck Cancer Patients. Journal of Nuclear Medicine, 2009, 50, 1828-1836.	5.0	154
29	Repeatability of ¹⁸F-FDG Uptake Measurements in Tumors: A Metaanalysis. Journal of Nuclear Medicine, 2012, 53, 701-708.	5.0	149
30	Quantifying heterogeneity in human tumours using MRI and PET. European Journal of Cancer, 2012, 48, 447-455.	2.8	149
31	Reduced GABAA benzodiazepine receptor binding in veterans with post-traumatic stress disorder. Molecular Psychiatry, 2008, 13, 74-83.	7.9	148
32	Longitudinal Amyloid Imaging Using ¹¹C-PiB: Methodologic Considerations. Journal of Nuclear Medicine, 2013, 54, 1570-1576.	5.0	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.	4.3	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.	6.4	145
35	Microglial activation in Alzheimer's disease: an (R)-[11C]PK11195 positron emission tomography study. Neurobiology of Aging, 2013, 34, 128-136.	3.1	145
36	Need for Standardization of ¹⁸F-FDG PET/CT for Treatment Response Assessments. Journal of Nuclear Medicine, 2011, 52, 93S-100S.	5.0	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.	2.1	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.	6.4	134
39	Mutatis Mutandis: Harmonize the Standard!. Journal of Nuclear Medicine, 2012, 53, 1-3.	5.0	133
40	Dopaminergic activity in Tourette syndrome and obsessive-compulsive disorder. European Neuropsychopharmacology, 2013, 23, 1423-1431.	0.7	133
41	Accuracy and precision of pseudo-continuous arterial spin labeling perfusion during baseline and hypercapnia: A head-to-head comparison with 15O H2O positron emission tomography. NeuroImage, 2014, 92, 182-192.	4.2	133
42	Repeatability of ¹⁸F-FDG PET in a Multicenter Phase I Study of Patients with Advanced Gastrointestinal Malignancies. Journal of Nuclear Medicine, 2009, 50, 1646-1654.	5.0	129
43	Partial volume correction strategies for quantitative FDG PET in oncology. European Journal of Nuclear Medicine and Molecular Imaging, 2010, 37, 1679-1687.	6.4	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.	4.2	127
45	P-Glycoprotein Function at the Bloodâ€“Brain Barrier: Effects of Age and Gender. Molecular Imaging and Biology, 2012, 14, 771-776.	2.6	127
46	Microglial activation in healthy aging. Neurobiology of Aging, 2012, 33, 1067-1072.	3.1	125
47	Optimization of Supervised Cluster Analysis for Extracting Reference Tissue Input Curves in (R)-[¹¹C]PK11195 Brain PET Studies. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1600-1608.	4.3	120
48	Detection of Alzheimer Pathology In Vivo Using Both ¹¹C-PIB and ¹⁸F-FDDNP PET. Journal of Nuclear Medicine, 2009, 50, 191-197.	5.0	119
49	Arterial Spin Labeling Perfusion MRI at Multiple Delay Times: A Correlative Study with H₂¹⁵O Positron Emission Tomography in Patients with Symptomatic Carotid Artery Occlusion. Journal of Cerebral Blood Flow and Metabolism, 2010, 30, 222-229.	4.3	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.	5.0	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.	1.0	111
52	Amyloid burden and metabolic function in early-onset Alzheimer's disease: parietal lobe involvement. Brain, 2012, 135, 2115-2125.	7.6	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.	0.6	106
54	89Zr-cetuximab PET imaging in patients with advanced colorectal cancer. Oncotarget, 2015, 6, 30384-30393.	1.8	106

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55	¹⁸F-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.	5.0	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.	6.4	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.	2.6	101
58	Determinants of coronary microvascular dysfunction in symptomatic hypertrophic cardiomyopathy. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 294, H986-H993.	3.2	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.	6.4	100
60	Differential effect of APOE genotype on amyloid load and glucose metabolism in AD dementia. Neurology, 2013, 80, 359-365.	1.1	99
61	Quantification of [¹⁸F]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.	4.3	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.	1.8	98
63	Repeatability of Metabolically Active Volume Measurements with¹⁸F-FDG and¹⁸F-FLT PET in Nonâ€“Small Cell Lung Cancer. Journal of Nuclear Medicine, 2010, 51, 1870-1877.	5.0	98
64	Noninvasive imaging of macrophages in rheumatoid synovitis using ¹¹Câ€(R)â€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.	6.4	96
66	A Guide to ComBat Harmonization of Imaging Biomarkers in Multicenter Studies. Journal of Nuclear Medicine, 2022, 63, 172-179.	5.0	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.	4.2	94
68	Summary of the UPICT Protocol for ¹⁸F-FDG PET/CT Imaging in Oncology Clinical Trials. Journal of Nuclear Medicine, 2015, 56, 955-961.	5.0	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.	5.0	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.	4.3	87
71	Simplified parametric methods for [11C]PIB studies. NeuroImage, 2008, 42, 76-86.	4.2	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.	6.4	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.	0.8	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.	6.4	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.	7.3	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.	6.4	82
77	Optimization algorithms and weighting factors for analysis of dynamic PET studies. Physics in Medicine and Biology, 2006, 51, 4217-4232.	3.0	81
78	Repeatability of ¹⁸Fâ€<scp>FDG PET</scp> radiomic features: A phantom study to explore sensitivity to image reconstruction settings, noise, and delineation method. Medical Physics, 2019, 46, 665-678.	3.0	81
79	Quantitative Imaging Test Approval and Biomarker Qualification: Interrelated but Distinct Activities. Radiology, 2011, 259, 875-884.	7.3	80
80	Cerebral perfusion and glucose metabolism in Alzheimerâ€™s disease and frontotemporal dementia: two sides of the same coin?. European Radiology, 2015, 25, 3050-3059.	4.5	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.	6.4	79
82	Accurate PET/MR Quantification Using Time of Flight MLAA Image Reconstruction. Molecular Imaging and Biology, 2014, 16, 469-477.	2.6	78
83	Transmission dosimetry with a liquid-filled electronic portal imaging device. International Journal of Radiation Oncology Biology Physics, 1996, 34, 931-941.	0.8	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.	8.9	75
85	Optimized dose regimen for whole-body FDG-PET imaging. EJNMMI Research, 2013, 3, 63.	2.5	73
86	Widespread and Prolonged Increase in (R)-¹¹C-PK11195 Binding After Traumatic Brain Injury. Journal of Nuclear Medicine, 2011, 52, 1235-1239.	5.0	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.	5.0	72
88	Reproducibility of quantitative 18F-3â€²-deoxy-3â€²-fluorothymidine measurements using positron emission tomography. European Journal of Nuclear Medicine and Molecular Imaging, 2009, 36, 389-395.	6.4	71
89	In vivo imaging of the 18-kDa translocator protein (TSPO) with [18F]FEDAA1106 and PET does not show increased binding in Alzheimerâ€™s disease patients. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 921-931.	6.4	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.	4.3	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.	2.8	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.	2.2	66
93	Quantitative Analysis of Response to Treatment with Erlotinib in Advanced Nonâ€“Small Cell Lung Cancer Using 18F-FDG and 3â€²-Deoxy-3â€²-18F-Fluorothymidine PET. Journal of Nuclear Medicine, 2011, 52, 1871-1877.	5.0	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.	6.4	63
95	Multicenter Harmonization of ⁸⁹Zr PET/CT Performance. Journal of Nuclear Medicine, 2014, 55, 264-267.	5.0	63
96	In vivo (R)-[11C]PK11195 PET imaging of 18kDa translocator protein in recent onset psychosis. NPJ Schizophrenia, 2016, 2, 16031.	3.6	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.	0.6	62
98	Test-retest variability of quantitative [11C]PIB studies in Alzheimerâ€™s disease. European Journal of Nuclear Medicine and Molecular Imaging, 2009, 36, 1629-1638.	6.4	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.	2.0	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.	6.4	62
101	A convolution model to convert transmission dose images to exit dose distributions. Medical Physics, 1997, 24, 189-199.	3.0	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.	3.4	61
103	Effects of Image Characteristics on Performance of Tumor Delineation Methods: A Testâ€“Retest Assessment. Journal of Nuclear Medicine, 2011, 52, 1550-1558.	5.0	60
104	RaCaT: An open source and easy to use radiomics calculator tool. PLoS ONE, 2019, 14, e0212223.	2.5	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.	6.4	60
106	HRRT Versus HR+ Human Brain PET Studies: An Interscanner Testâ€“Retest Study. Journal of Nuclear Medicine, 2009, 50, 693-702.	5.0	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.	7.2	59
108	Improved detection of diffuse glioma infiltration with imaging combinations: a diagnostic accuracy study. Neuro-Oncology, 2020, 22, 412-422.	1.2	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.	2.5	57
110	Current Image Acquisition Options in PET/MR. Seminars in Nuclear Medicine, 2015, 45, 192-200.	4.6	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.	5.0	56
112	18FDG uptake in oesophageal adenocarcinoma: linking biology and outcome. Journal of Cancer Research and Clinical Oncology, 2008, 134, 227-236.	2.5	55
113	Day-to-Day Testâ€“Retest Variability of CBF, CMRO2, and OEF Measurements Using Dynamic 15O PET Studies. Molecular Imaging and Biology, 2011, 13, 759-768.	2.6	55
114	18F-FDG PET image biomarkers improve prediction of late radiation-induced xerostomia. Radiotherapy and Oncology, 2018, 126, 89-95.	0.6	55
115	Multitracer model for staging cortical amyloid deposition using PET imaging. Neurology, 2020, 95, e1538-e1553.	1.1	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.	5.0	54
117	Quantification of PD-L1 Expression with ¹⁸F-BMS-986192 PET/CT in Patients with Advanced-Stage Nonâ€“Small Cell Lung Cancer. Journal of Nuclear Medicine, 2020, 61, 1455-1460.	5.0	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.	0.6	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.	4.3	53
120	Repeatability of Quantitative Whole-Body ¹⁸F-FDG PET/CT Uptake Measures as Function of Uptake Interval and Lesion Selection in Nonâ€“Small Cell Lung Cancer Patients. Journal of Nuclear Medicine, 2016, 57, 1343-1349.	5.0	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.	5.0	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.	4.5	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.	1.6	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.	6.4	52
125	Comparison of Plasma Input and Reference Tissue Models for Analysing [¹¹C]flumazenil Studies. Journal of Cerebral Blood Flow and Metabolism, 2008, 28, 579-587.	4.3	52
126	Integration of FDG- PET/CT into external beam radiation therapy planning. Nuklearmedizin - NuclearMedicine, 2012, 51, 140-153.	0.7	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.	7.3	51
128	Image-derived input functions for PET brain studies. European Journal of Nuclear Medicine and Molecular Imaging, 2009, 36, 463-471.	6.4	51
129	Long-term effects of amyloid, hypometabolism, and atrophy on neuropsychological functions. Neurology, 2014, 82, 1768-1775.	1.1	51
130	Quality control for quantitative multicenter wholeâ€body PET/MR studies: A NEMA image quality phantom study with three current PET/MR systems. Medical Physics, 2015, 42, 5961-5969.	3.0	51
131	The dose response relationship of a liquid-filled electronic portal imaging device. Medical Physics, 1996, 23, 1601-1611.	3.0	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.	6.4	50
133	Bone formation rather than inflammation reflects Ankylosing Spondylitis activity on PET-CT: a pilot study. Arthritis Research and Therapy, 2012, 14, R71.	3.5	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.	6.4	49
135	The QIBA Profile for FDG PET/CT as an Imaging Biomarker Measuring Response to Cancer Therapy. Radiology, 2020, 294, 647-657.	7.3	49
136	Outcome prediction of head and neck squamous cell carcinoma by MRI radiomic signatures. European Radiology, 2020, 30, 6311-6321.	4.5	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.	0.6	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.	5.0	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.	2.5	47
140	Tumor Lesion Glycolysis and Tumor Lesion Proliferation for Response Prediction and Prognostic Differentiation in Patients With Advanced Nonâ€“Small Cell Lung Cancer Treated With Erlotinib. Clinical Nuclear Medicine, 2012, 37, 1058-1064.	1.3	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.	4.3	47
142	In vivo tau pathology is associated with synaptic loss and altered synaptic function. Alzheimer's Research and Therapy, 2021, 13, 35.	6.2	47
143	Comparative biodistribution analysis across four different ⁸⁹Zr-monoclonal antibody tracersâ€”The first step towards an imaging warehouse. Theranostics, 2018, 8, 4295-4304.	10.0	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.	1.8	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.	1.1	45
146	Reproducibility of quantitative (R)-[11C]verapamil studies. EJNMMI Research, 2012, 2, 1.	2.5	45
147	Reproducibility of Tumor Perfusion Measurements Using ¹⁵O-Labeled Water and PET. Journal of Nuclear Medicine, 2008, 49, 1763-1768.	5.0	44
148	Study of ⁸⁹Zr-Pembrolizumab PET/CT in Patients With Advanced-Stage Nonâ€“Small Cell Lung Cancer. Journal of Nuclear Medicine, 2022, 63, 362-367.	5.0	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.	6.4	43
150	Pilot study of 89Zr-bevacizumab positron emission tomography in patients with advanced non-small cell lung cancer. EJNMMI Research, 2014, 4, 35.	2.5	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.	1.5	43
152	Quantification of Tau Load Using [18F]AV1451 PET. Molecular Imaging and Biology, 2017, 19, 963-971.	2.6	42
153	Diagnostic Accuracy of Neuroimaging to Delineate Diffuse Gliomas within the Brain: A Meta-Analysis. American Journal of Neuroradiology, 2017, 38, 1884-1891.	2.4	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.	6.4	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.	5.0	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.	5.0	41
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