

Irene Buvat

List of Publications by Year in descending order

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167
papers

10,125
citations

87723

38
h-index

38300

95
g-index

170
all docs

170
docs citations

170
times ranked

10353
citing authors

#	ARTICLE	IF	CITATIONS
1	A Guide to ComBat Harmonization of Imaging Biomarkers in Multicenter Studies. <i>Journal of Nuclear Medicine</i> , 2022, 63, 172-179.	2.8	96
2	An [18F]FDG-PET/CT deep learning method for fully automated detection of pathological mediastinal lymph nodes in lung cancer patients. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 881-888.	3.3	15
3	Nuclear Medicine and Artificial Intelligence: Best Practices for Algorithm Development. <i>Journal of Nuclear Medicine</i> , 2022, 63, 500-510.	2.8	43
4	Clever Hans effect found in a widely used brain tumour MRI dataset. <i>Medical Image Analysis</i> , 2022, 77, 102368.	7.0	14
5	Voxel-wise supervised analysis of tumors with multimodal engineered features to highlight interpretable biological patterns. <i>Medical Physics</i> , 2022, 49, 3816-3829.	1.6	12
6	Effects of Tracer Uptake Time in Non-Small Cell Lung Cancer ¹⁸ F-FDG PET Radiomics. <i>Journal of Nuclear Medicine</i> , 2022, 63, 919-924.	2.8	6
7	Prognostic value of lesion dissemination in doxorubicin, bleomycin, vinblastine, and dacarbazine-treated, interim PET-negative classical Hodgkin Lymphoma patients: A radio-genomic study. <i>Hematological Oncology</i> , 2022, 40, 645-657.	0.8	19
8	¹⁸ F-FDG PET Maximum-Intensity Projections and Artificial Intelligence: A Win-Win Combination to Easily Measure Prognostic Biomarkers in DLBCL Patients. <i>Journal of Nuclear Medicine</i> , 2022, 63, 1925-1932.	2.8	18
9	Deep-Learning ¹⁸ F-FDG Uptake Classification Enables Total Metabolic Tumor Volume Estimation in Diffuse Large B-Cell Lymphoma. <i>Journal of Nuclear Medicine</i> , 2021, 62, 30-36.	2.8	75
10	How can we combat multicenter variability in MR radiomics? Validation of a correction procedure. <i>European Radiology</i> , 2021, 31, 2272-2280.	2.3	93
11	A radiomics pipeline dedicated to Breast MRI: validation on a multi-scanner phantom study. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2021, 34, 355-366.	1.1	20
12	Irène Buvat and Ken Herrmann Talk with Alexander Stremitzer, Kevin Tobia, and Aileen Nielsen. <i>Journal of Nuclear Medicine</i> , 2021, 62, 3-5.	2.8	5
13	Potentials and caveats of AI in hybrid imaging. <i>Methods</i> , 2021, 188, 4-19.	1.9	12
14	Just another "Clever Hans"? Neural networks and FDG PET-CT to predict the outcome of patients with breast cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 3141-3150.	3.3	23
15	Total metabolic tumor volume and spleen metabolism on baseline [18F]-FDG PET/CT as independent prognostic biomarkers of recurrence in resected breast cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 3560-3570.	3.3	14
16	The T.R.U.E. Checklist for Identifying Impactful Artificial Intelligence-Based Findings in Nuclear Medicine: Is It True? Is It Reproducible? Is It Useful? Is It Explainable?. <i>Journal of Nuclear Medicine</i> , 2021, 62, 752-754.	2.8	13
17	New PET technologies "embracing progress and pushing the limits. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 2711-2726.	3.3	35
18	Comment on Ibrahim et al. The Effects of In-Plane Spatial Resolution on CT-Based Radiomic Features™ Stability with and without ComBat Harmonization. <i>Cancers</i> 2021, 13, 1848. <i>Cancers</i> , 2021, 13, 3037.	1.7	8

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19	New Approaches in Characterization of Lesions Dissemination in DLBCL Patients on Baseline PET/CT. <i>Cancers</i> , 2021, 13, 3998.	1.7	12
20	Radiomics in PET Imaging. <i>PET Clinics</i> , 2021, 16, 597-612.	1.5	40
21	Quantitative Image Analysis in Tomography. , 2021, , 1407-1429.		0
22	¹⁸ F-FDG PET Dissemination Features in Diffuse Large B-Cell Lymphoma Are Predictive of Outcome. <i>Journal of Nuclear Medicine</i> , 2020, 61, 40-45.	2.8	109
23	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. <i>Radiology</i> , 2020, 295, 328-338.	3.6	1,869
24	Longitudinal mouse-PET imaging: a reliable method for estimating binding parameters without a reference region or blood sampling. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2020, 47, 2589-2601.	3.3	7
25	Correction for Magnetic Field Inhomogeneities and Normalization of Voxel Values Are Needed to Better Reveal the Potential of MR Radiomic Features in Lung Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 43.	1.3	17
26	The Dark Side of Radiomics: On the Paramount Importance of Publishing Negative Results. <i>Journal of Nuclear Medicine</i> , 2019, 60, 1543-1544.	2.8	58
27	Validation of A Method to Compensate Multicenter Effects Affecting CT Radiomics. <i>Radiology</i> , 2019, 291, 53-59.	3.6	257
28	A downsampling strategy to assess the predictive value of radiomic features. <i>Scientific Reports</i> , 2019, 9, 17869.	1.6	5
29	Longitudinal positron emission tomography imaging of glial cell activation in a mouse model of mesial temporal lobe epilepsy: Toward identification of optimal treatment windows. <i>Epilepsia</i> , 2018, 59, 1234-1244.	2.6	36
30	Is there an optimal method for measuring baseline metabolic tumor volume in diffuse large B cell lymphoma?. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 45, 1463-1464.	3.3	19
31	Computation of reliable textural indices from multimodal brain MRI: suggestions based on a study of patients with diffuse intrinsic pontine glioma. <i>Physics in Medicine and Biology</i> , 2018, 63, 105003.	1.6	32
32	A Postreconstruction Harmonization Method for Multicenter Radiomic Studies in PET. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1321-1328.	2.8	250
33	Imaging the neuroimmune response to alcohol exposure in adolescent baboons: a TSPO PET study using ¹⁸ F-DPA-714. <i>Addiction Biology</i> , 2018, 23, 1000-1009.	1.4	23
34	A score combining baseline neutrophilia and primary tumor SUV _{peak} measured from FDG PET is associated with outcome in locally advanced cervical cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 45, 187-195.	3.3	25
35	Interval-based reconstruction for uncertainty quantification in PET. <i>Physics in Medicine and Biology</i> , 2018, 63, 035014.	1.6	10
36	Impact of Endothelial 18-kDa Translocator Protein on the Quantification of ¹⁸ F-DPA-714. <i>Journal of Nuclear Medicine</i> , 2018, 59, 307-314.	2.8	52

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37	Physical blood-brain barrier disruption induced by focused ultrasound does not overcome the transporter-mediated efflux of erlotinib. <i>Journal of Controlled Release</i> , 2018, 292, 210-220.	4.8	37
38	P-Glycoprotein (ABCB1) Inhibits the Influx and Increases the Efflux of ¹¹ C-Metoclopramide Across the Blood-Brain Barrier: A PET Study on Nonhuman Primates. <i>Journal of Nuclear Medicine</i> , 2018, 59, 1609-1615.	2.8	39
39	Radiomics in Nuclear Medicine Applied to Radiation Therapy: Methods, Pitfalls, and Challenges. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 1117-1142.	0.4	86
40	LIFEX: A Freeware for Radiomic Feature Calculation in Multimodality Imaging to Accelerate Advances in the Characterization of Tumor Heterogeneity. <i>Cancer Research</i> , 2018, 78, 4786-4789.	0.4	717
41	Influence of age on radiomic features in 18F-FDG PET in normal breast tissue and in breast cancer tumors. <i>Oncotarget</i> , 2018, 9, 30855-30868.	0.8	11
42	Acute Morphine Exposure Increases the Brain Distribution of [¹⁸ F]DPA-714, a PET Biomarker of Glial Activation in Nonhuman Primates. <i>International Journal of Neuropsychopharmacology</i> , 2017, 20, pyw077.	1.0	16
43	Multi-centre evaluation of accuracy and reproducibility of planar and SPECT image quantification: An IAEA phantom study. <i>Zeitschrift Fur Medizinische Physik</i> , 2017, 27, 98-112.	0.6	35
44	Evaluation of TSPO PET imaging, a marker of glial activation, to study the neuroimmune footprints of morphine exposure and withdrawal. <i>Drug and Alcohol Dependence</i> , 2017, 170, 43-50.	1.6	13
45	Report of the 6th International Workshop on PET in lymphoma. <i>Leukemia and Lymphoma</i> , 2017, 58, 2298-2303.	0.6	21
46	Imaging Probes and Modalities for the Study of Solute Carrier O (SLCO)-Transport Function In Vivo. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 2335-2344.	1.6	14
47	A Score Combining SUV peak of the Primary Tumor Computed on Pretreatment FDG-PET Scans and Neutrophilia Predicts Outcome in Locally Advanced Cervical Cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 99, E310-E311.	0.4	1
48	Subject-specific bone attenuation correction for brain PET/MR: can ZTE-MRI substitute CT scan accurately?. <i>Physics in Medicine and Biology</i> , 2017, 62, 7814-7832.	1.6	30
49	Joint prediction of multiple scores captures better individual traits from brain images. <i>NeuroImage</i> , 2017, 158, 145-154.	2.1	35
50	Understanding Changes in Tumor Texture Indices in PET: A Comparison Between Visual Assessment and Index Values in Simulated and Patient Data. <i>Journal of Nuclear Medicine</i> , 2017, 58, 387-392.	2.8	86
51	Strategies to Inhibit ABCB1- and ABCG2-Mediated Efflux Transport of Erlotinib at the Blood-Brain Barrier: A PET Study on Nonhuman Primates. <i>Journal of Nuclear Medicine</i> , 2017, 58, 117-122.	2.8	43
52	Brain Lesion Detection in 3D PET Images Using Max-Trees and a New Spatial Context Criterion. <i>Lecture Notes in Computer Science</i> , 2017, , 455-466.	1.0	5
53	Prediction of cervical cancer recurrence using textural features extracted from 18F-FDG PET images acquired with different scanners. <i>Oncotarget</i> , 2017, 8, 43169-43179.	0.8	100
54	Methodologies for quantitative SPECT. <i>Imaging in Medical Diagnosis and Therapy</i> , 2017, , 195-210.	0.0	0

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55	A ^{gate} evaluation of the sources of error in quantitative ⁹⁰Y PET. Medical Physics, 2016, 43, 5320-5329.	1.6	13
56	Redesign of the GATE PET coincidence sorter. Physics in Medicine and Biology, 2016, 61, N522-N531.	1.6	15
57	In Regard to Mattonen etÂal. International Journal of Radiation Oncology Biology Physics, 2016, 95, 1544-1545.	0.4	17
58	Multiscale Texture Analysis: From ¹⁸F-FDG PET Images to Histologic Images. Journal of Nuclear Medicine, 2016, 57, 1823-1828.	2.8	56
59	Imaging the Impact of the P-Glycoprotein (ABCB1) Function on the Brain Kinetics of Metoclopramide. Journal of Nuclear Medicine, 2016, 57, 309-314.	2.8	47
60	Using simulations of the detector performance for enhanced image reconstruction in molecular imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 809, 89-95.	0.7	0
61	18F-FDG PET-Derived Textural Indices Reflect Tissue-Specific Uptake Pattern in Non-Small Cell Lung Cancer. PLoS ONE, 2015, 10, e0145063.	1.1	115
62	Improved Estimation of Cardiac Function Parameters Using a Combination of Independent Automated Segmentation Results in Cardiovascular Magnetic Resonance Imaging. PLoS ONE, 2015, 10, e0135715.	1.1	11
63	Variability and Uncertainty of ¹⁸F-FDG PET Imaging Protocols for Assessing Inflammation in Atherosclerosis: Suggestions for Improvement. Journal of Nuclear Medicine, 2015, 56, 552-559.	2.8	89
64	3D+t segmentation of PET images using spectral clustering. , 2015, , .		0
65	Apport de lâ€™imagerie hybride TEP-IRM pour la quantification en TEP. Medecine Nucleaire, 2015, 39, 291-292.	0.2	0
66	Unsupervised Spectral Clustering for Segmentation of Dynamic PET Images. IEEE Transactions on Nuclear Science, 2015, 62, 840-850.	1.2	16
67	Tumor Texture Analysis in PET: Where Do We Stand?. Journal of Nuclear Medicine, 2015, 56, 1642-1644.	2.8	93
68	Monitoring therapeutic efficacy of sunitinib using [18F]FDG and [18F]FMISO PET in an immunocompetent model of luminal B (HER2-positive)-type mammary carcinoma. BMC Cancer, 2015, 15, 534.	1.1	15
69	Monte-Carlo simulations of clinically realistic respiratory gated 18F-FDG PET: Application to lesion detectability and volume measurements. Computer Methods and Programs in Biomedicine, 2015, 118, 84-93.	2.6	7
70	Fluorine 18 Fluorodeoxyglucose PET/CT Volume-based Indices in Locally Advanced Nonâ€™Small Cell Lung Cancer: Prediction of Residual Viable Tumor after Induction Chemotherapy. Radiology, 2014, 272, 875-884.	3.6	20
71	Extension of the GATE Monte-Carlo simulation package to model bioluminescence and fluorescence imaging. Journal of Biomedical Optics, 2014, 19, 026004.	1.4	28
72	Monitoring tumour response during chemo-radiotherapy: a parametric method using FDG-PET/CT images in patients with oesophageal cancer. EJNMMI Research, 2014, 4, 12.	1.1	19

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73	A review of the use and potential of the GATE Monte Carlo simulation code for radiation therapy and dosimetry applications. <i>Medical Physics</i> , 2014, 41, 064301.	1.6	332
74	Variational Segmentation of Vector-Valued Images With Gradient Vector Flow. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 4773-4785.	6.0	26
75	Tumor Texture Analysis in ¹⁸ F-FDG PET: Relationships Between Texture Parameters, Histogram Indices, Standardized Uptake Values, Metabolic Volumes, and Total Lesion Glycolysis. <i>Journal of Nuclear Medicine</i> , 2014, 55, 414-422.	2.8	311
76	Relationship between Tumor Heterogeneity Measured on FDG-PET/CT and Pathological Prognostic Factors in Invasive Breast Cancer. <i>PLoS ONE</i> , 2014, 9, e94017.	1.1	133
77	4DGVF : segmentation variationnelle pour images 3D multicomposantes. <i>Traitement Du Signal</i> , 2014, 31, 9-38.	0.8	0
78	Prognostic implications of volume-based measurements on FDG PET/CT in stage III non-small-cell lung cancer after induction chemotherapy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013, 40, 668-676.	3.3	31
79	Comparison of PET metabolic indices for the early assessment of tumour response in metastatic colorectal cancer patients treated by polychemotherapy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2013, 40, 166-174.	3.3	28
80	Optimized spectral clustering for segmentation of dynamic PET images. , 2013, , .		0
81	Vector-based active surfaces for segmentation of dynamic PET images. , 2013, , .		4
82	Theme B: Biomedical signal and image processing. <i>Irbbm</i> , 2013, 34, 6-8.	3.7	0
83	Experimental and analytical comparative study of optical coefficient of fresh and frozen rat tissues. <i>Journal of Biomedical Optics</i> , 2013, 18, 117010.	1.4	56
84	PET-based dose delivery verification in proton therapy: a GATE based simulation study of five PET system designs in clinical conditions. <i>Physics in Medicine and Biology</i> , 2013, 58, 6867-6885.	1.6	21
85	Evaluation of Quantitative Criteria for Glioma Grading With Static and Dynamic ¹⁸ F-FDopa PET/CT. <i>Clinical Nuclear Medicine</i> , 2013, 38, 81-87.	0.7	32
86	Hybrid GATE: A GPU/CPU implementation for imaging and therapy applications. , 2012, , .		6
87	Optical imaging simulation using GATE. , 2012, , .		1
88	Nonsupervised Ranking of Different Segmentation Approaches: Application to the Estimation of the Left Ventricular Ejection Fraction From Cardiac Cine MRI Sequences. <i>IEEE Transactions on Medical Imaging</i> , 2012, 31, 1651-1660.	5.4	27
89	Realistic and Efficient Modeling of Radiotracer Heterogeneity in Monte Carlo Simulations of PET Images With Tumors. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 113-122.	1.2	11
90	A review of partial volume correction techniques for emission tomography and their applications in neurology, cardiology and oncology. <i>Physics in Medicine and Biology</i> , 2012, 57, R119-R159.	1.6	381

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91	Lesion-based detection of early chemosensitivity using serial static FDG PET/CT in metastatic colorectal cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2012, 39, 1628-1634.	3.3	10
92	Quantitative Image Analysis in Tomography. , 2012, , 1043-1063.		0
93	Design of Molecular Imaging Systems Assisted by the Monte Carlo Methods. <i>Series in Medical Physics and Biomedical Engineering</i> , 2012, , 273-286.	0.1	0
94	GATE. <i>Series in Medical Physics and Biomedical Engineering</i> , 2012, , 129-152.	0.1	0
95	Nouvelle méthode de segmentation des volumes d'activité en TEP: utilisation de la théorie des possibilités. <i>Irbm</i> , 2011, 32, 351-362.	3.7	2
96	Quantification in oncologic FDG-PET: A scientific overview. <i>Medecine Nucleaire</i> , 2011, 35, 320-321.	0.2	0
97	Optimization of a parallel hole collimator/CdZnTe gamma-camera architecture for scintimammography. <i>Medical Physics</i> , 2011, 38, 1806-1819.	1.6	21
98	Review and current status of SPECT scatter correction. <i>Physics in Medicine and Biology</i> , 2011, 56, R85-R112.	1.6	146
99	Comparison of different segmentation approaches without using gold standard. Application to the estimation of the left ventricle ejection fraction from cardiac cine MRI sequences. , 2011, 2011, 2663-6.		3
100	Searching for Alternatives to Full Kinetic Analysis in ¹⁸ F-FDG PET: An Extension of the Simplified Kinetic Analysis Method. <i>Journal of Nuclear Medicine</i> , 2011, 52, 634-641.	2.8	9
101	Detection and Characterization of Tumor Changes in ¹⁸ F-FDG PET Patient Monitoring Using Parametric Imaging. <i>Journal of Nuclear Medicine</i> , 2011, 52, 354-361.	2.8	28
102	Comparison of Bootstrap Resampling Methods for 3-D PET Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2010, 29, 1442-1454.	5.4	33
103	Comparative Assessment of Methods for Estimating Tumor Volume and Standardized Uptake Value in ¹⁸ F-FDG PET. <i>Journal of Nuclear Medicine</i> , 2010, 51, 268-276.	2.8	136
104	Simulation-based evaluation and optimization of a new CdZnTe gamma-camera architecture (HiSens). <i>Physics in Medicine and Biology</i> , 2010, 55, 2709-2726.	1.6	28
105	A Preliminary Study of Quantitative Protocols in Indium 111 SPECT Using Computational Simulations and Phantoms. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 1096-1104.	1.2	11
106	Multidimensional B-spline parameterization of the detection probability of PET systems to improve the efficiency of Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2010, 55, 3339-3361.	1.6	3
107	LuCaS2: Efficient Monte Carlo simulations of serial PET scans for assessing detection and quantification methods used in patient monitoring. , 2009, , .		2
108	Multidimensional B-spline parameterization of the detection probability of the PET scanner Biograph 16 using GATE. , 2009, , .		1

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109	Efficient simulations of iodine 131 SPECT scans using GATE. , 2009, , .		2
110	Introducing improved voxel navigation and fictitious interaction tracking in GATE for enhanced efficiency. Physics in Medicine and Biology, 2009, 54, 2163-2178.	1.6	30
111	Monte Carlo Simulations in Nuclear Medicine Imaging. , 2009, , 177-209.		4
112	Optimization of photon tracking in GATE. , 2008, , .		3
113	Simulation-based evaluation of OSEM iterative reconstruction methods in dynamic brain PET studies. NeuroImage, 2008, 39, 359-368.	2.1	77
114	LuCaS: Efficient Monte Carlo simulations of highly realistic PET tumor images. , 2008, , .		6
115	Comparison Between 2D and 3D Dosimetry Protocols in ⁹⁰ Y-Ibritumomab Tiuxetan Radioimmunotherapy of Patients with Non-Hodgkin's Lymphoma. Cancer Biotherapy and Radiopharmaceuticals, 2008, 23, 53-64.	0.7	24
116	Reply: Feasibility of Automated Partial-Volume Correction of SUVs in Current PET/CT Scanners: Can Manufacturers Provide Integrated, Ready-to-Use Software?. Journal of Nuclear Medicine, 2008, 49, 1032-1033.	2.8	2
117	Impact of Image-Space Resolution Modeling for Studies with the High-Resolution Research Tomograph. Journal of Nuclear Medicine, 2008, 49, 1000-1008.	2.8	217
118	Assigning statistical significance to tumor changes in patient monitoring using FDG pet. , 2008, , .		0
119	Primary Tumor Standardized Uptake Value (SUV _{max}) Measured on Fluorodeoxyglucose Positron Emission Tomography (FDG-PET) is of Prognostic Value for Survival in Non-small Cell Lung Cancer (NSCLC): A Systematic Review and Meta-Analysis (MA) by the European Lung Cancer Working Party for the IASLC Lung Cancer Staging Project. Journal of Thoracic Oncology. 2008, 3, 6-12.	0.5	466
120	Partial-Volume Effect in PET Tumor Imaging. Journal of Nuclear Medicine, 2007, 48, 932-945.	2.8	1,227
121	Impact of the choice of functional regions in targeted fully 3D SPECT reconstruction. , 2007, , .		1
122	Fully 4D image reconstruction by estimation of an input function and spectral coefficients. , 2007, , .		33
123	Fully 4D reconstruction applied to respiratory gated PET acquisitions. , 2007, , .		0
124	Simulation-based evaluation of NEG-ML iterative reconstruction of low count PET data. , 2007, , .		12
125	Quantification in emission tomography: Challenges, solutions, and performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 10-13.	0.7	11
126	Accuracy of partial volume effect correction in clinical molecular imaging of dopamine transporter using SPECT. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 173-176.	0.7	5

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127	Iterative Kinetic Parameter Estimation within Fully 4D PET Image Reconstruction. , 2006, , .		23
128	Simulation-based Evaluation of Iterative Reconstructions in Dynamic [18F]MPPF PET studies. , 2006, , .		0
129	Targeted Fully 3D Monte Carlo Reconstruction in SPECT. , 2006, , .		5
130	Fully 3D Monte Carlo image reconstruction in SPECT using functional regions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 399-403.	0.7	21
131	Partial volume effect correction in SPECT for striatal uptake measurements in patients with neurodegenerative diseases: impact upon patient classification. European Journal of Nuclear Medicine and Molecular Imaging, 2006, 33, 1062-1072.	3.3	39
132	Monte Carlo simulations in emission tomography and GATE: An overview. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 323-329.	0.7	77
133	Assessment of the Mosaic animal PET system response using list-mode data for validation of GATE Monte Carlo modelling. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 569, 220-224.	0.7	11
134	Simultaneous Estimation of Temporal Basis Functions and Fully 4D PET Images. , 2006, , .		5
135	Clinical comparison of HiRez versus non-HiRez LSO crystal sampling for lesion detection and SUV quantification. , 2006, , .		0
136	Joint estimation of dynamic PET images and temporal basis functions using fully 4D ML-EM. Physics in Medicine and Biology, 2006, 51, 5455-5474.	1.6	86
137	Quantification in simultaneous ^{99m} Tc/ ¹²³ I brain SPECT using generalized spectral factor analysis: a Monte Carlo study. Physics in Medicine and Biology, 2006, 51, 6157-6171.	1.6	18
138	Unified description and validation of Monte Carlo simulators in PET. Physics in Medicine and Biology, 2005, 50, 329-346.	1.6	33
139	From Anatomic Standardization Analysis of Perfusion SPECT Data to Perfusion Pattern Modeling. Academic Radiology, 2005, 12, 554-565.	1.3	10
140	Monte Carlo simulation in PET and SPECT instrumentation using GATE. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 527, 180-189.	0.7	80
141	Feasibility and value of fully 3D Monte Carlo reconstruction in single-photon emission computed tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 527, 195-200.	0.7	13
142	Diffusion regularization for iterative reconstruction in emission tomography. IEEE Transactions on Nuclear Science, 2004, 51, 712-718.	1.2	11
143	Evaluation of Registration of Ictal SPECT/MRI Data Using Statistical Similarity Methods. Lecture Notes in Computer Science, 2004, , 687-695.	1.0	3
144	From Anatomic Standardization Analysis of Perfusion SPECT Data to Perfusion Pattern Modelling. Lecture Notes in Computer Science, 2003, , 328-335.	1.0	2

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145	Quantitative accuracy of dopaminergic neurotransmission imaging with (123)I SPECT. Journal of Nuclear Medicine, 2003, 44, 1184-93.	2.8	80
146	Biases affecting the measurements of tumor-to-background activity ratio in PET. IEEE Transactions on Nuclear Science, 2002, 49, 2112-2118.	1.2	19
147	A non-parametric bootstrap approach for analysing the statistical properties of SPECT and PET images. Physics in Medicine and Biology, 2002, 47, 1761-1775.	1.6	58
148	Iterative reconstruction of SPECT data with adaptive regularization. IEEE Transactions on Nuclear Science, 2002, 49, 2350-2354.	1.2	80
149	Comparison of four scatter correction methods for patient whole-body imaging during therapeutic trials with iodine-131. Cancer, 2002, 94, 1224-1230.	2.0	10
150	Importance of the choice of the collimator for the detection of small lesions in scintimammography: a phantom study. Physics in Medicine and Biology, 2001, 46, 1343-1355.	1.6	15
151	A Methodology to Validate MRI/SPECT Registration Methods Using Realistic Simulated SPECT Data. Lecture Notes in Computer Science, 2001, , 275-282.	1.0	14
152	Should scatter be corrected in both transmission and emission data for accurate quantitation in cardiac SPET?. European Journal of Nuclear Medicine and Molecular Imaging, 2000, 27, 1356-1364.	2.2	4
153	Respective roles of scatter, attenuation, depth-dependent collimator response and finite spatial resolution in cardiac single-photon emission tomography quantitation: a Monte Carlo study. European Journal of Nuclear Medicine and Molecular Imaging, 1999, 26, 437-446.	3.3	31
154	Quantitation in planar renal scintigraphy: which $\hat{\mu}$ value should be used?. European Journal of Nuclear Medicine and Molecular Imaging, 1999, 26, 1610-1613.	3.3	2
155	<title>The need to develop guidelines for the evaluation of medical image processing procedures</title>. , 1999, 3661, 1466.		11
156	Testing observer's ability to detect if an image was compressed shows large observer variability. , 1999, 3658, 538.		0
157	Implications of dual-energy-window (DEW) scatter correction inaccuracies for ¹¹¹ In quantitative geometric mean imaging. Nuclear Medicine Communications, 1997, 18, 79-86.	0.5	4
158	Measurement of Myocardial Wall Thickening from PET/SPECT Images: Comparison of Two Methods. Journal of Computer Assisted Tomography, 1996, 20, 473-481.	0.5	15
159	Realignment of Emission Contaminated Attenuation Maps with Uncontaminated Attenuation Maps for Attenuation Correction in PET. Journal of Computer Assisted Tomography, 1996, 20, 848-854.	0.5	3
160	Attenuation correction in cardiac positron emission tomography and single-photon emission computed tomography. Journal of Nuclear Cardiology, 1995, 2, 246-255.	1.4	27
161	A comparative study of scatter correction methods for scintigraphic images. European Journal of Nuclear Medicine and Molecular Imaging, 1994, 21, 388-393.	2.2	12
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