Dimitris Visvikis

List of Publications by Year
in descending order

191 papers	8,913 citations	38742 50 h-index	48315 88 g-index
197 all docs	197 docs citations	197 times ranked	7762 citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Monte Carlo-Based Inverse Planning for Prostate Brachytherapy by Using Deep Learning. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 182-188.	3.7	9
2	Optimizing the Beam Selection for Noncoplanar VMAT by Using Simulated Annealing Approach. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 609-618.	3.7	3
3	Prediction of recurrence after surgery in colorectal cancer patients using radiomics from diagnostic contrast-enhanced computed tomography: a two-center study. European Radiology, 2022, 32, 405-414.	4.5	11
4	The added value of PSMA PET/MR radiomics for prostate cancer staging. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 527-538.	6.4	38
5	Multi-channel convolutional analysis operator learning for dual-energy CT reconstruction. Physics in Medicine and Biology, 2022, 67, 065001.	3.0	2
6	Joint EANM/SNMMI/ESTRO practice recommendations for the use of 2-[18F]FDG PET/CT external beam radiation treatment planning in lung cancer V1.0. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 1386-1406.	6.4	24
7	PET respiratory motion correction: quo vadis?. Physics in Medicine and Biology, 2022, 67, 03TR02.	3.0	10
8	Perspective paper about the joint EANM/SNMMI/ESTRO practice recommendations for the use of 2-[18F]FDG-PET/CT external beam radiation treatment planning in lung cancer. Radiotherapy and Oncology, 2022, 168, 37-39.	0.6	4
9	Overview of the HECKTOR Challenge at MICCAI 2021: Automatic Head and Neck Tumor Segmentation and Outcome Prediction in PET/CT Images. Lecture Notes in Computer Science, 2022, , 1-37.	1.3	39
10	External Validation of a Radiomics Model for the Prediction of Complete Response to Neoadjuvant Chemoradiotherapy in Rectal Cancer. Cancers, 2022, 14, 1079.	3.7	11
11	Application of artificial intelligence in nuclear medicine and molecular imaging: a review of current status and future perspectives for clinical translation. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 4452-4463.	6.4	29
12	An encoder-decoder network for direct image reconstruction on sinograms of a long axial field of view PET. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 4464-4477.	6.4	11
13	Surface imaging for real‑time patient respiratory function assessment in intensive care. Medical Physics, 2021, 48, 142-155.	3.0	5
14	Radiomics in PET/CT: Current Status and Future AI-Based Evolutions. Seminars in Nuclear Medicine, 2021, 51, 126-133.	4.6	33
15	DUG-RECON: A Framework for Direct Image Reconstruction Using Convolutional Generative Networks. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 44-53.	3.7	19
16	Squeeze-and-Excitation Normalization for Automated Delineation of Head and Neck Primary Tumors in Combined PET and CT Images. Lecture Notes in Computer Science, 2021, , 37-43.	1.3	47
17	Radiogenomics in Colorectal Cancer. Cancers, 2021, 13, 973.	3.7	18
18	Clinical Evaluation of a Three-Dimensional Internal Dosimetry Technique for Liver Radioembolization with ^{90}Y Microspheres Using Dose Voxel Kernels. Cancer Biotherapy and Radiopharmaceuticals, 2021, 36, 809-819.	1.0	5

#	Article	IF	Citations
19	Convolutional neural networks for PET functional volume fully automatic segmentation: development and validation in a multi-center setting. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 3444-3456.	6.4	15
20	[18F]FDG PET radiomics to predict disease-free survival in cervical cancer: a multi-scanner/center study with external validation. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 3432-3443.	6.4	32
21	Dosimetric Validation of a GAN-Based Pseudo-CT Generation for MRI-Only Stereotactic Brain Radiotherapy. Cancers, 2021, 13, 1082.	3.7	15
22	Artificial intelligence: Deep learning in oncological radiomics and challenges of interpretability and data harmonization. Physica Medica, 2021, 83, 108-121.	0.7	85
23	Position paper of the EACVI and EANM on artificial intelligence applications in multimodality cardiovascular imaging using SPECT/CT, PET/CT, and cardiac CT. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 1399-1413.	6.4	45
24	Can alternative PET reconstruction schemes improve the prognostic value of radiomic features in non-small cell lung cancer?. Methods, 2021, 188, 73-83.	3.8	7
25	Comparison and Fusion of Machine Learning Algorithms for Prospective Validation of PET/CT Radiomic Features Prognostic Value in Stage II-III Non-Small Cell Lung Cancer. Diagnostics, 2021, 11, 675.	2.6	17
26	Simultaneous Mapping of Vasculature, Hypoxia, and Proliferation Using Dynamic Susceptibility Contrast MRI, ^{18}F-FMISO PET, and ^{18}F-FLT PET in Relation to Contrast Enhancement in Newly Diagnosed Glioblastoma. Journal of Nuclear Medicine, 2021, 62, 1349-1356.	5.0	14
27	Advanced Monte Carlo simulations of emission tomography imaging systems with GATE. Physics in Medicine and Biology, 2021, 66, 10TR03.	3.0	82
28	Radiomics Analysis of 3D Dose Distributions to Predict Toxicity of Radiotherapy for Cervical Cancer. Journal of Personalized Medicine, 2021, 11, 398.	2.5	12
29	Statistical harmonization can improve the development of a multicenter CT-based radiomic model predictive of nonresponse to induction chemotherapy in laryngeal cancers. Medical Physics, 2021, 48, 4099-4109.	3.0	15
30	A transfer learning approach to facilitate ComBat-based harmonization of multicentre radiomic features in new datasets. PLoS ONE, 2021, 16, e0253653.	2.5	21
31	Squeeze-and-Excitation Normalization for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2021, , 366-373.	1.3	7
32	A machine-learning approach based on 409 treatments to predict optimal number of iodine-125 seeds in low-dose-rate prostate brachytherapy. Journal of Contemporary Brachytherapy, 2021, 13, 541-548.	0.9	2
33	Standardization and Validation of Brachytherapy Seeds' Modelling Using GATE and GGEMS Monte Carlo Toolkits. Cancers, 2021, 13, 5315.	3.7	2
34	A deep-learning-based prediction model for the biodistribution of ^{90}Y microspheres in liver radioembolization. Medical Physics, 2021, 48, 7427-7438.	3.0	7
35	Accurate Tumor Delineation vs. Rough Volume of Interest Analysis for 18F-FDG PET/CT Radiomics-Based Prognostic Modeling inNon-Small Cell Lung Cancer. Frontiers in Oncology, 2021, 11, 726865.	2.8	5
36	Surface imaging for real-time patient positioning in external radiation therapy. Medical Physics, 2021, , .	3.0	1

#	Article	IF	Citations
37	Evaluation of conventional and deep learning based image harmonization methods in radiomics studies. Physics in Medicine and Biology, 2021, 66, 245009.	3.0	18
38	Development of a Radiomic-Based Model Predicting Lymph Node Involvement in Prostate Cancer Patients. Cancers, 2021, 13, 5672.	3.7	14
39	PET Reconstruction With Non-Negativity Constraint in Projection Space: Optimization Through Hypo-Convergence. IEEE Transactions on Medical Imaging, 2020, 39, 75-86.	8.9	3
40	Pretreatment ^{18}F-FDG PET/CT Radiomics Predict Local Recurrence in Patients Treated with Stereotactic Body Radiotherapy for Early-Stage Non–Small Cell Lung Cancer: A Multicentric Study. Journal of Nuclear Medicine, 2020, 61, 814-820.	5.0	126
41	Roadmap toward the 10 ps time-of-flight PET challenge. Physics in Medicine and Biology, 2020, 65, 21RM01.	3.0	136
42	Transcriptomics in cancer revealed by Positron Emission Tomography radiomics. Scientific Reports, 2020, 10, 5660.	3.3	13
43	External Validation of an MRI-Derived Radiomics Model to Predict Biochemical Recurrence after Surgery for High-Risk Prostate Cancer. Cancers, 2020, 12, 814.	3.7	50
44	Potential Complementary Value of Noncontrast and Contrast Enhanced CT Radiomics in Colorectal Cancers. Academic Radiology, 2019, 26, 469-479.	2.5	29
45	Radiogenomics-based cancer prognosis in colorectal cancer. Scientific Reports, 2019, 9, 9743.	3.3	38
46	Artificial intelligence, machine (deep) learning and radio(geno)mics: definitions and nuclear medicine imaging applications. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 2630-2637.	6.4	91
47	Revisiting the identification of tumor sub-volumes predictive of residual uptake after (chemo)radiotherapy: influence of segmentation methods on 18F-FDG PET/CT images. Scientific Reports, 2019, 9, 14925.	3.3	6
48	XEMIS2: A liquid xenon Compton camera to image small animals. , 2019, , .		3
49	Radiomics: Data Are Also Images. Journal of Nuclear Medicine, 2019, 60, 38S-44S.	5.0	74
50	Multicentric validation of radiomics findings: challenges and opportunities. EBioMedicine, 2019, 47, 20-21.	6.1	13
51	MRI-Derived Radiomics to Guide Post-operative Management for High-Risk Prostate Cancer. Frontiers in Oncology, 2019, 9, 807.	2.8	35
52	MRI-derived radiomics: methodology and clinical applications in the field of pelvic oncology. British Journal of Radiology, 2019, 92, 20190105.	2.2	38
53	DVH-Based Inverse Planning Using Monte Carlo Dosimetry for LDR Prostate Brachytherapy. International Journal of Radiation Oncology Biology Physics, 2019, 103, 503-510.	0.8	12
54	Thoracic Stent-Graft Migration: The Role of the Geometric Modifications of the Stent-Graft at 3 years. Annals of Vascular Surgery, 2019, 58, 16-23.	0.9	5

#	Article	IF	Citations
55	Direct Measurement of Ionization Charges in Single-phase Liquid Xenon Compton Telescope for 3γ Medical Imaging. , 2019, , .		1
56	Initial Results of the MINDView PET Insert Inside the 3T mMR. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 343-351.	3.7	47
57	Image Enhancement With PDEs and Nonconservative Advection Flow Fields. IEEE Transactions on Image Processing, 2019, 28, 3075-3088.	9.8	15
58	Comparison of Radiomics Models Built Through Machine Learning in a Multicentric Context With Independent Testing: Identical Data, Similar Algorithms, Different Methodologies. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 192-200.	3.7	16
59	Reoxygenation during radiotherapy in intermediate-risk prostate cancer. Radiotherapy and Oncology, 2019, 133, 16-19.	0.6	23
60	A Review on Personalized Pediatric Dosimetry Applications Using Advanced Computational Tools. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 607-620.	3.7	7
61	External validation of a combined PET and MRI radiomics model for prediction of recurrence in cervical cancer patients treated with chemoradiotherapy. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 864-877.	6.4	138
62	Prostate Volume Segmentation in TRUS Using Hybrid Edge-Bhattacharyya Active Surfaces. IEEE Transactions on Biomedical Engineering, 2019, 66, 920-933.	4.2	11
63	Radiomics in nuclear medicine and hybrid imaging: current standings on clinical applicability. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2019, 63, 321-322.	0.7	0
64	The MINDVIEW project: First results. European Psychiatry, 2018, 50, 21-27.	0.2	19
65	Technical Note: Kinect V2 surface filtering during gantry motion for radiotherapy applications. Medical Physics, 2018, 45, 1400-1407.	3.0	8
66	Dynamic PET image reconstruction integrating temporal regularization associated with respiratory motion correction for applications in oncology. Physics in Medicine and Biology, 2018, 63, 045012.	3.0	10
67	Prediction of outcome using pretreatment 18F-FDG PET/CT and MRI radiomics in locally advanced cervical cancer treated with chemoradiotherapy. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 768-786.	6.4	193
68	Prognostic Value of Head and Neck Tumor Proliferative Sphericity From 3′-Deoxy-3′-[18F] Fluorothymidine Positron Emission Tomography. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 33-40.	3.7	12
69	FDG PET/CT radiomics for predicting the outcome of locally advanced rectal cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 365-375.	6.4	125
70	Multi-Scale Modeling and Oxygen Impact on Tumor Temporal Evolution: Application on Rectal Cancer During Radiotherapy. IEEE Transactions on Medical Imaging, 2018, 37, 871-880.	8.9	5
71	Tumour functional sphericity from PET images: prognostic value in NSCLC and impact of delineation method. European Journal of Nuclear Medicine and Molecular Imaging, 2018, 45, 630-641.	6.4	40
72	The first MICCAI challenge on PET tumor segmentation. Medical Image Analysis, 2018, 44, 177-195.	11.6	116

#	ARTICLE	IF	CITATIONS
73	Responsible Radiomics Research for Faster Clinical Translation. Journal of Nuclear Medicine, 2018, 59, 189-193.	5.0	154
74	Image Filtering with Advectors. , 2018, , .		0
75	Heterogeneity analysis of 18F-FDG PET imaging in oncology: clinical indications and perspectives. Clinical and Translational Imaging, 2018, 6, 393-410.	2.1	9
76	A 4D global respiratory motion model of the thorax based on CT images: A proof of concept. Medical Physics, 2018, 45, 3043-3051.	3.0	11
77	FDG PET radiomics: a review of the methodological aspects. Clinical and Translational Imaging, 2018, 6, 379-391.	2.1	26
78	CASToR: a generic data organization and processing code framework for multi-modal and multi-dimensional tomographic reconstruction. Physics in Medicine and Biology, 2018, 63, 185005.	3.0	109
79	Evaluation of tumor hypoxia prior to radiotherapy in intermediate-risk prostate cancer using 18F-fluoromisonidazole PET/CT: a pilot study. Oncotarget, 2018, 9, 10005-10015.	1.8	16
80	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.	6.4	376
81	Classification and evaluation strategies of auto-segmentation approaches for PET: Report of AAPM task group No. 211. Medical Physics, 2017, 44, e1-e42.	3.0	162
82	Toward a standard for the evaluation of PET‐Auto‐Segmentation methods following the recommendations of AAPM task group No. 211: Requirements and implementation. Medical Physics, 2017, 44, 4098-4111.	3.0	35
83	Tumor Delineation and Quantitative Assessment of Glucose Metabolic Rate within Histologic Subtypes of Non‐Small Cell Lung Cancer by Using Dynamic ^{18}F Fluorodeoxyglucose PET. Radiology, 2017, 283, 547-559.	7.3	16
84	Radiomics in PET/CT: More Than Meets the Eye?. Journal of Nuclear Medicine, 2017, 58, 365-366.	5.0	83
85	Fully automatic deformable registration of pretreatment MRI/CT for image‐guided prostate radiotherapy planning. Medical Physics, 2017, 44, 6447-6455.	3.0	13
86	A framework based on hidden Markov trees for multimodal PET/CT image co‐segmentation. Medical Physics, 2017, 44, 5835-5848.	3.0	9
87	Pose optimization of a C-arm imaging device to reduce intraoperative radiation exposure of staff and patient during interventional procedures. , 2017, , .		6
88	MR-based respiratory and cardiac motion correction for PET imaging. Medical Image Analysis, 2017, 42, 129-144.	11.6	64
89	Evaluation of the tumor registration error in biopsy procedures performed under real‐time PET/CT guidance. Medical Physics, 2017, 44, 5089-5095.	3.0	5
90	GATE Monte-Carlo Simulation of an MV-CBCT Flat Panel for Synergistic Imaging and Dosimetric Applications in Radiotherapy. IEEE Transactions on Radiation and Plasma Medical Sciences, 2017, 1, 444-451.	3.7	3

#	Article	IF	Citations
91	4-Dimensional MRI and Attenuation Map Generation in PET/MRI with 4-Dimensional PET-Derived Deformation Matrices: Study of Feasibility for Lung Cancer Applications. Journal of Nuclear Medicine, 2017, 58, 833-839.	5.0	8
92	Reliability of PET/CT Shape and Heterogeneity Features in Functional and Morphologic Components of Non–Small Cell Lung Cancer Tumors: A Repeatability Analysis in a Prospective Multicenter Cohort. Journal of Nuclear Medicine, 2017, 58, 406-411.	5.0	131
93	Prostate brachytherapy optimization using GPU accelerated simulated annealing and Monte Carlo dose simulation. , 2016, , .		1
94	Comparison of Tumor Uptake Heterogeneity Characterization Between Static and Parametric ^{18}F-FDG PET Images in Non–Small Cell Lung Cancer. Journal of Nuclear Medicine, 2016, 57, 1033-1039.	5.0	31
95	Performance of automatic image segmentation algorithms for calculating total lesion glycolysis for early response monitoring in non-small cell lung cancer patients during concomitant chemoradiotherapy. Radiotherapy and Oncology, 2016, 119, 473-479.	0.6	17
96	Kinect2 — Respiratory movement detection study. , 2016, 2016, 3875-3878.		3
97	A brain PET insert MR compatible: Final design and first results. , 2016, , .		3
98	The Impact of Optimal Respiratory Gating and Image Noise on Evaluation of Intratumor Heterogeneity on ^{18}F-FDG PET Imaging of Lung Cancer. Journal of Nuclear Medicine, 2016, 57, 1692-1698.	5.0	67
99	Accelerated GPU based SPECT Monte Carlo simulations. Physics in Medicine and Biology, 2016, 61, 4001-4018.	3.0	14
100	New hybrid voxelized/analytical primitive in Monte Carlo simulations for medical applications. Physics in Medicine and Biology, 2016, 61, 3347-3364.	3.0	9
101	^{18}F-FDG PET/CT imaging in rectal cancer: relationship with the *RAS* mutational status. British Journal of Radiology, 2016, 89, 20160212.	2.2	54
102	18F-FDG PET/CT heterogeneity quantification through textural features in the era of harmonisation programs: a focus on lung cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 2324-2335.	6.4	45
103	Innovations in Small-Animal PET/MR Imaging Instrumentation. PET Clinics, 2016, 11, 105-118.	3.0	11
104	FDG PET/CT texture analysis for predicting the outcome of lung cancer treated by stereotactic body radiation therapy. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 1453-1460.	6.4	102
105	Development of a nomogram combining clinical staging with 18F-FDG PET/CT image features in non-small-cell lung cancer stage I–III. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 1477-1485.	6.4	97
106	The MINDView brain PET detector, feasibility study based on SiPM arrays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 818, 82-90.	1.6	54
107	Motion correction using anatomical information in PET/CT and PET/MR hybrid imaging. Quarterly Journal of Nuclear Medicine and Molecular Imaging, 2016, 60, 12-24.	0.7	16
108	SPEQTACLE: An automated generalized fuzzy C–means algorithm for tumor delineation in PET. Medical Physics, 2015, 42, 5720-5734.	3.0	16

#	Article	IF	Citations
109	Detector modeling in PET list-mode reconstruction: Comparison between pre-calculated and on-the-fly computed system matrix. , 2015, , .		1
110	GGEMS-Brachy: GPU GEant4-based Monte Carlo simulation for brachytherapy applications. Physics in Medicine and Biology, 2015, 60, 4987-5006.	3.0	18
111	Regarding â€œSegmentation of heterogeneous or small FDG PET positive tissue based on a 3D-locally adaptive random walk algorithmâ€•By DP. Onoma et al.. Computerized Medical Imaging and Graphics, 2015, 46, 300-301.	5.8	1
112	A novel partial volume effects correction technique integrating deconvolution associated with denoising within an iterative PET image reconstruction. Medical Physics, 2015, 42, 804-819.	3.0	6
113	The use of a generalized reconstruction by inversion of coupled systems (GRICS) approach for generic respiratory motion correction in PET/MR imaging. Physics in Medicine and Biology, 2015, 60, 2529-2546.	3.0	24
114	Early Metabolic Response to Neoadjuvant Treatment: FDG PET/CT Criteria according to Breast Cancer Subtype. Radiology, 2015, 277, 358-371.	7.3	72
115	Reconstruction-Incorporated Respiratory Motion Correction in Clinical Simultaneous PET/MR Imaging for Oncology Applications. Journal of Nuclear Medicine, 2015, 56, 884-889.	5.0	52
116	Monte-Carlo dosimetry for intraoperative radiotherapy using a low energy x-ray source. Acta Oncológica, 2015, 54, 1788-1795.	1.8	23
117	Do clinical, histological or immunohistochemical primary tumour characteristics translate into different 18F-FDG PET/CT volumetric and heterogeneity features in stage II/III breast cancer?. European Journal of Nuclear Medicine and Molecular Imaging, 2015, 42, 1682-1691.	6.4	63
118	Baseline Tumor ^{18}F-FDG Uptake and Modifications After 2 Cycles of Neoadjuvant Chemotherapy Are Prognostic of Outcome in ER+/HER2â‹ Breast Cancer. Journal of Nuclear Medicine, 2015, 56, 824-831.	5.0	48
119	^{18}F-FDG PET Uptake Characterization Through Texture Analysis: Investigating the Complementary Nature of Heterogeneity and Functional Tumor Volume in a Multiâ€"Cancer Site Patient Cohort. Journal of Nuclear Medicine, 2015, 56, 38-44.	5.0	374
120	Biomedical Imaging: Role and Opportunities of Medical Imaging in the â€œOmicsâ€•Era. BioMed Research International, 2014, 2014, 1-2.	1.9	3
121	Semiautomatic methods for segmentation of the proliferative tumour volume on sequential FLT PET/CT images in head and neck carcinomas and their relation to clinical outcome. European Journal of Nuclear Medicine and Molecular Imaging, 2014, 41, 915-924.	6.4	31
122	A review of the use and potential of the GATE Monte Carlo simulation code for radiation therapy and dosimetry applications. Medical Physics, 2014, 41, 064301.	3.0	332
123	Visual Versus Quantitative Assessment of Intratumor ^{18}F-FDG PET Uptake Heterogeneity: Prognostic Value in Nonâ€"Small Cell Lung Cancer. Journal of Nuclear Medicine, 2014, 55, 1235-1241.	5.0	130
124	GPU-accelerated Monte Carlo based scatter correction in brain PET/MR. EJNMMI Physics, 2014, 1, A32.	2.7	8
125	PET/MR attenuation correction: where have we come from and where are we going?. European Journal of Nuclear Medicine and Molecular Imaging, 2014, 41, 1172-1175.	6.4	21
126	FDG PET/CT for rectal carcinoma radiotherapy treatment planning: comparison of functional volume delineation algorithms and clinical challenges. Journal of Applied Clinical Medical Physics, 2014, 15, 216-228.	1.9	14

#	Article	IF	Citations
127	A novel brain PET insert for the MINDView project. , 2014, , .		9
128	Correlation of Intra-Tumor 18F-FDG Uptake Heterogeneity Indices with Perfusion CT Derived Parameters in Colorectal Cancer. PLoS ONE, 2014, 9, e99567.	2.5	30
129	Cloud computing in medical imaging. Medical Physics, 2013, 40, 070901.	3.0	105
130	Robustness of intratumour 18F-FDG PET uptake heterogeneity quantification for therapy response prediction in oesophageal carcinoma. European Journal of Nuclear Medicine and Molecular Imaging, 2013, 40, 1662-1671.	6.4	186
131	Estrogen receptorâ€positive/human epidermal growth factor receptor 2â€negative breast tumors. Cancer, 2013, 119, 1960-1968.	4.1	47
132	Denoising of PET images by combining wavelets and curvelets for improved preservation of resolution and quantitation. Medical Image Analysis, 2013, 17, 877-891.	11.6	60
133	MRI data driven partial volume effects correction in PET imaging using 3D local multi-resolution analysis. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 702, 39-41.	1.6	2
134	Comparison Between 18F-FDG PET Imageâ€"Derived Indices for Early Prediction of Response to Neoadjuvant Chemotherapy in Breast Cancer. Journal of Nuclear Medicine, 2013, 54, 341-349.	5.0	74
135	Geant4-based Monte Carlo simulations on GPU for medical applications. Physics in Medicine and Biology, 2013, 58, 5593-5611.	3.0	65
136	Early prediction of pathological response in locally advanced rectal cancer based on sequential 18F-FDG PET. Acta OncolÃ³gica, 2013, 52, 619-626.	1.8	40
137	Generation of 4-Dimensional CT Images Based on 4-Dimensional PETâ€"Derived Motion Fields. Journal of Nuclear Medicine, 2013, 54, 631-638.	5.0	30
138	Incorporation of time-of-flight information in PET list-mode reconstruction using a projector with accurate detector PSF modeling. , 2013, , .		0
139	Direct 4D patlak parametric image reconstruction algorithm integrating respiratory motion correction for oncology studies. , 2013, , .		1
140	GPU-accelerated Monte Carlo based scatter correction in brain PET/MR. , 2013, , .		0
141	Monte Carlo simulations on GPU for brachytherapy applications. , 2013, , .		1
142	Investigation of realistic PET simulations incorporating tumor patientËˆs specificity using anthropomorphic models: Creation of an oncology database. Medical Physics, 2013, 40, 112506.	3.0	26
143	SU-D-500-04: Impact of Delineation and Partial Volume Effects Correction On PET Uptake Heterogeneity Quantification Through Textural Features Analysis for Therapy Response in Oncology. Medical Physics, 2013, 40, 106-106.	3.0	0
144	Comparison of different methods of incorporating respiratory motion for lung cancer tumor volume delineation on PET images: a simulation study. Physics in Medicine and Biology, 2012, 57, 7409-7430.	3.0	7

#	Article	IF	Citations
145	Comparative assessment of segmentation algorithms for tumor delineation on a test–retest [11C]choline dataset. Medical Physics, 2012, 39, 7571-7579.	3.0	4
146	Hybrid GATE: A GPU/CPU implementation for imaging and therapy applications. , 2012, , .		6
147	A generic respiratory motion model based on 4D MRI imaging and 2D image navigators. , 2012, , .		18
148	Projector with realistic detector scatter modelling for PET list-mode reconstruction. , 2012, , .		2
149	A generic PET/MRI respiratory motion correction using a generalized reconstruction by inversion of coupled systems (GRICS) approach. , 2012, , .		5
150	High performance Multi-GPU acceleration for fully 3D list-mode PET reconstruction. , 2012, , .		2
151	Impact of the accuracy of automatic tumour functional volume delineation on radiotherapy treatment planning. Physics in Medicine and Biology, 2012, 57, 5381-5397.	3.0	17
152	Reproducibility of Tumor Uptake Heterogeneity Characterization Through Textural Feature Analysis in 18F-FDG PET. Journal of Nuclear Medicine, 2012, 53, 693-700.	5.0	289
153	Impact of Partial-Volume Effect Correction on the Predictive and Prognostic Value of Baseline 18F-FDG PET Images in Esophageal Cancer. Journal of Nuclear Medicine, 2012, 53, 12-20.	5.0	58
154	Reply: Marker Selection Based on Only Reproducibility Can Be Questioned. Journal of Nuclear Medicine, 2012, 53, 1993.2-1993.	5.0	0
155	Patient specific respiratory motion modeling using a 3D patient's external surface. Medical Physics, 2012, 39, 3386-3395.	3.0	45
156	Image Change Detection Using Paradoxical Theory for Patient Follow-Up Quantitation and Therapy Assessment. IEEE Transactions on Medical Imaging, 2012, 31, 1743-1753.	8.9	4
157	Reproducibility of functional volume and activity concentration in 18F-FDG PET/CT of liver metastases in colorectal cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 1858-1867.	6.4	24
158	The age of reason for FDG PET image-derived indices. European Journal of Nuclear Medicine and Molecular Imaging, 2012, 39, 1670-1672.	6.4	36
159	Recommendations for measurement of tumour vascularity with positron emission tomography in early phase clinical trials. European Radiology, 2012, 22, 1465-1478.	4.5	17
160	Super-Resolution in Respiratory Synchronized Positron Emission Tomography. IEEE Transactions on Medical Imaging, 2012, 31, 438-448.	8.9	42
161	Evaluation of a 3D local multiresolution algorithm for the correction of partial volume effects in positron emission tomography. Medical Physics, 2011, 38, 4920-4933.	3.0	39
162	Implementing Geant4 on GPU for medical applications. , 2011, , .		4

#	Article	IF	Citations
163	Positively Charged Lanthanide Complexes with Cyclen-Based Ligands: Synthesis, Solid-State and Solution Structure, and Fluoride Interaction. Inorganic Chemistry, 2011, 50, 12508-12521.	4.0	64
164	Technical Note: Correlation of respiratory motion between external patient surface and internal anatomical landmarks. Medical Physics, 2011, 38, 3157-3164.	3.0	87
165	PET functional volume delineation: a robustness and repeatability study. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 663-672.	6.4	108
166	Prognostic value of 18F-FDG PET image-based parameters in oesophageal cancer and impact of tumour delineation methodology. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 1191-1202.	6.4	130
167	Baseline 18F-FDG PET image-derived parameters for therapy response prediction in oesophageal cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 1595-1606.	6.4	71
168	Intratumor Heterogeneity Characterized by Textural Features on Baseline ^{18}F-FDG PET Images Predicts Response to Concomitant Radiochemotherapy in Esophageal Cancer. Journal of Nuclear Medicine, 2011, 52, 369-378.	5.0	626
169	A fast CPU/GPU ray projector for fully 3d list-mode PET reconstruction. , 2011, , .		5
170	Autocontouring Versus Manual Contouring. Journal of Nuclear Medicine, 2011, 52, 658.1-658.	5.0	15
171	Impact of Tumor Size and Tracer Uptake Heterogeneity in ^{18}F-FDG PET and CT Non–Small Cell Lung Cancer Tumor Delineation. Journal of Nuclear Medicine, 2011, 52, 1690-1697.	5.0	126
172	WE-E-BRC-01: Impact of Tumor Size and 18F-FDG Tracer Uptake Heterogeneity in Non-Small Cell Lung Cancer Tumor Automatic Delineation on PET and CT Images for Gross Tumor Volumes Determination. Medical Physics, 2011, 38, 3818-3818.	3.0	0
173	SU-E-J-53: Multi Observation PET Image Fusion for Patient Follow-Up Quantitation in Oncology. Medical Physics, 2011, 38, 3454-3454.	3.0	0
174	Distribution pattern of 68Ga-DOTATATE in disease-free patients. Nuclear Medicine Communications, 2010, 31, 1025-1032.	1.1	77
175	Accurate Automatic Delineation of Heterogeneous Functional Volumes in Positron Emission Tomography for Oncology Applications. International Journal of Radiation Oncology Biology Physics, 2010, 77, 301-308.	0.8	154
176	Defining Radiotherapy Target Volumes Using 18F-Fluoro-Deoxy-Glucose Positron Emission Tomography/Computed Tomography: Still a Pandora's Box?: In Regard to Devic etÂal. (Int J Radiat Oncol) Tj ET Q q0 0 0 rg BT /Overlo		
177	Reproducibility of ^{18}F-FDG and 3′-Deoxy-3′-^{18}F-Fluorothymidine PET Tumor Volume Measurements. Journal of Nuclear Medicine, 2010, 51, 1368-1376.	5.0	118
178	OncoPET_DB: A Freely Distributed Database of Realistic Simulated Whole Body 18F-FDG PET Images for Oncology. IEEE Transactions on Nuclear Science, 2010, 57, 246-255.	2.0	25
179	A 2D-spline patient specific model for use in radiation therapy. , 2009, , .		7
180	A Fuzzy Locally Adaptive Bayesian Segmentation Approach for Volume Determination in PET. IEEE Transactions on Medical Imaging, 2009, 28, 881-893.	8.9	282

#	Article	IF	Citations
181	Incorporating Patient-Specific Variability in the Simulation of Realistic Whole-Body $^{18}\hbox{F-FDG}$ Distributions for Oncology Applications. Proceedings of the IEEE, 2009, 97, 2026-2038.	21.3	52
182	Une nouvelle méthode de détermination automatique des volumes fonctionnels pour les applications de l'imagerie d'émission en oncologie. Irbm, 2009, 30, 144-149.	5.6	2
183	Efficient simulations of iodine 131 SPECT scans using GATE. , 2009, , .		2
184	Functional and structural synergy for resolution recovery and partial volume correction in brain PET. NeuroImage, 2009, 44, 340-348.	4.2	81
185	PET Image Denoising Using a Synergistic Multiresolution Analysis of Structural (MRI/CT) and Functional Datasets. Journal of Nuclear Medicine, 2008, 49, 657-666.	5.0	46
186	Development of a database of realistic simulated whole body [18F]FDG PET images for lymphoma. , 2008, , .		3
187	Respiratory motion correction in PET with super-resolution techniques and non-rigid registration. , 2007, , .		10
188	The impact of FDG-PET on the management algorithm for recurrent colorectal cancer. European Journal of Nuclear Medicine and Molecular Imaging, 2001, 28, 1758-1765.	6.4	88
189	Modeling Dynamic PET-SPECT Studies in the Wavelet Domain. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 879-893.	4.3	54
190	In vivo occupancy of striatal and temporal cortical D2/D3 dopamine receptors by typical antipsychotic drugs. British Journal of Psychiatry, 1999, 175, 231-238.	2.8	49
191	Multiresolution Analysis of Emission Tomography Images in the Wavelet Domain. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 1189-1208.	4.3	116