Dimitris Visvikis

List of Publications by Year
in descending order

191	8,913	38742 50	48315 88
papers	citations	h-index	g-index

197	197	197	7762
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Intratumor Heterogeneity Characterized by Textural Features on Baseline ¹⁸F-FDG PET Images Predicts Response to Concomitant Radiochemotherapy in Esophageal Cancer. Journal of Nuclear Medicine, 2011, 52, 369-378.	5.0	626
2	Characterization of PET/CT images using texture analysis: the past, the presentâ€¦ any future?. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 151-165.	6.4	376
3	¹⁸F-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
4	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
5	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
6	A Fuzzy Locally Adaptive Bayesian Segmentation Approach for Volume Determination in PET. IEEE Transactions on Medical Imaging, 2009, 28, 881-893.	8.9	282
7	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
8	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
9	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
10	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
11	Responsible Radiomics Research for Faster Clinical Translation. Journal of Nuclear Medicine, 2018, 59, 189-193.	5.0	154
12	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
13	Roadmap toward the 10 ps time-of-flight PET challenge. Physics in Medicine and Biology, 2020, 65, 21RM01.	3.0	136
14	Reliability of PET/CT Shape and Heterogeneity Features in Functional and Morphologic Components of Nonâ€“Small Cell Lung Cancer Tumors: A Repeatability Analysis in a Prospective Multicenter Cohort. Journal of Nuclear Medicine, 2017, 58, 406-411.	5.0	131
15	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
16	Visual Versus Quantitative Assessment of Intratumor ¹⁸F-FDG PET Uptake Heterogeneity: Prognostic Value in Nonâ€“Small Cell Lung Cancer. Journal of Nuclear Medicine, 2014, 55, 1235-1241.	5.0	130
17	Impact of Tumor Size and Tracer Uptake Heterogeneity in ¹⁸F-FDG PET and CT Nonâ€“Small Cell Lung Cancer Tumor Delineation. Journal of Nuclear Medicine, 2011, 52, 1690-1697.	5.0	126
18	Pretreatment ¹⁸F-FDG PET/CT Radiomics Predict Local Recurrence in Patients Treated with Stereotactic Body Radiotherapy for Early-Stage Nonâ€“Small Cell Lung Cancer: A Multicentric Study. Journal of Nuclear Medicine, 2020, 61, 814-820.	5.0	126

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19	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
20	Reproducibility of ¹⁸F-FDG and 3â€²-Deoxy-3â€²-¹⁸F-Fluorothymidine PET Tumor Volume Measurements. Journal of Nuclear Medicine, 2010, 51, 1368-1376.	5.0	118
21	Multiresolution Analysis of Emission Tomography Images in the Wavelet Domain. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 1189-1208.	4.3	116
22	The first MICCAI challenge on PET tumor segmentation. Medical Image Analysis, 2018, 44, 177-195.	11.6	116
23	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
24	PET functional volume delineation: a robustness and repeatability study. European Journal of Nuclear Medicine and Molecular Imaging, 2011, 38, 663-672.	6.4	108
25	Cloud computing in medical imaging. Medical Physics, 2013, 40, 070901.	3.0	105
26	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
27	Development of a nomogram combining clinical staging with 18F-FDG PET/CT image features in non-small-cell lung cancer stage Iâ€“III. European Journal of Nuclear Medicine and Molecular Imaging, 2016, 43, 1477-1485.	6.4	97
28	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
29	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
30	Technical Note: Correlation of respiratory motion between external patient surface and internal anatomical landmarks. Medical Physics, 2011, 38, 3157-3164.	3.0	87
31	Artificial intelligence: Deep learning in oncological radiomics and challenges of interpretability and data harmonization. Physica Medica, 2021, 83, 108-121.	0.7	85
32	Radiomics in PET/CT: More Than Meets the Eye?. Journal of Nuclear Medicine, 2017, 58, 365-366.	5.0	83
33	Advanced Monte Carlo simulations of emission tomography imaging systems with GATE. Physics in Medicine and Biology, 2021, 66, 10TR03.	3.0	82
34	Functional and structural synergy for resolution recovery and partial volume correction in brain PET. NeuroImage, 2009, 44, 340-348.	4.2	81
35	Distribution pattern of 68Ga-DOTATATE in disease-free patients. Nuclear Medicine Communications, 2010, 31, 1025-1032.	1.1	77
36	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

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37	Radiomics: Data Are Also Images. Journal of Nuclear Medicine, 2019, 60, 38S-44S.	5.0	74
38	Early Metabolic Response to Neoadjuvant Treatment: FDG PET/CT Criteria according to Breast Cancer Subtype. Radiology, 2015, 277, 358-371.	7.3	72
39	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
40	The Impact of Optimal Respiratory Gating and Image Noise on Evaluation of Intratumor Heterogeneity on ¹⁸F-FDG PET Imaging of Lung Cancer. Journal of Nuclear Medicine, 2016, 57, 1692-1698.	5.0	67
41	Geant4-based Monte Carlo simulations on GPU for medical applications. Physics in Medicine and Biology, 2013, 58, 5593-5611.	3.0	65
42	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
43	MR-based respiratory and cardiac motion correction for PET imaging. Medical Image Analysis, 2017, 42, 129-144.	11.6	64
44	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
45	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
46	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
47	Modeling Dynamic PET-SPECT Studies in the Wavelet Domain. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 879-893.	4.3	54
48	¹⁸F-FDG PET/CT imaging in rectal cancer: relationship with theRASmutational status. British Journal of Radiology, 2016, 89, 20160212.	2.2	54
49	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
50	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
51	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
52	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
53	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
54	Baseline Tumor ¹⁸F-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

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55	Estrogen receptorâ€positive/human epidermal growth factor receptor 2â€negative breast tumors. Cancer, 2013, 119, 1960-1968.	4.1	47
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	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
58	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
59	Patient specific respiratory motion modeling using a 3D patient's external surface. Medical Physics, 2012, 39, 3386-3395.	3.0	45
60	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
61	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
62	Super-Resolution in Respiratory Synchronized Positron Emission Tomography. IEEE Transactions on Medical Imaging, 2012, 31, 438-448.	8.9	42
63	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
64	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
65	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
66	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
67	Radiogenomics-based cancer prognosis in colorectal cancer. Scientific Reports, 2019, 9, 9743.	3.3	38
68	MRI-derived radiomics: methodology and clinical applications in the field of pelvic oncology. British Journal of Radiology, 2019, 92, 20190105.	2.2	38
69	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
70	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
71	Toward a standard for the evaluation of <scp>PET</scp>â€Autoâ€Segmentation methods following the recommendations of AAPM task group No. 211: Requirements and implementation. Medical Physics, 2017, 44, 4098-4111.	3.0	35
72	MRI-Derived Radiomics to Guide Post-operative Management for High-Risk Prostate Cancer. Frontiers in Oncology, 2019, 9, 807.	2.8	35

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73	Radiomics in PET/CT: Current Status and Future AI-Based Evolutions. Seminars in Nuclear Medicine, 2021, 51, 126-133.	4.6	33
74	[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
75	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
76	Comparison of Tumor Uptake Heterogeneity Characterization Between Static and Parametric ‹sup›18‹/sup›F-FDG PET Images in Nonâ€“Small Cell Lung Cancer. Journal of Nuclear Medicine, 2016, 57, 1033-1039.	5.0	31
77	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
78	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
79	Potential Complementary Value of Noncontrast and Contrast Enhanced CT Radiomics in Colorectal Cancers. Academic Radiology, 2019, 26, 469-479.	2.5	29
80	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
81	Investigation of realistic PET simulations incorporating tumor patientË^s specificity using anthropomorphic models: Creation of an oncology database. Medical Physics, 2013, 40, 112506.	3.0	26
82	FDG PET radiomics: a review of the methodological aspects. Clinical and Translational Imaging, 2018, 6, 379-391.	2.1	26
83	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
84	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
85	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
86	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
87	Monte-Carlo dosimetry for intraoperative radiotherapy using a low energy x-ray source. Acta OncolÃ³gica, 2015, 54, 1788-1795.	1.8	23
88	Reoxygenation during radiotherapy in intermediate-risk prostate cancer. Radiotherapy and Oncology, 2019, 133, 16-19.	0.6	23
89	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
90	A transfer learning approach to facilitate ComBat-based harmonization of multicentre radiomic features in new datasets. PLoS ONE, 2021, 16, e0253653.	2.5	21

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91	The MINDVIEW project: First results. European Psychiatry, 2018, 50, 21-27.	0.2	19
92	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
93	A generic respiratory motion model based on 4D MRI imaging and 2D image navigators. , 2012, , .		18
94	GGEMS-Brachy: GPU GEant4-based Monte Carlo simulation for brachytherapy applications. Physics in Medicine and Biology, 2015, 60, 4987-5006.	3.0	18
95	Radiogenomics in Colorectal Cancer. Cancers, 2021, 13, 973.	3.7	18
96	Evaluation of conventional and deep learning based image harmonization methods in radiomics studies. Physics in Medicine and Biology, 2021, 66, 245009.	3.0	18
97	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
98	Recommendations for measurement of tumour vascularity with positron emission tomography in early phase clinical trials. European Radiology, 2012, 22, 1465-1478.	4.5	17
99	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
100	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
101	SPEQTACLE: An automated generalized fuzzy Câ€means algorithm for tumor delineation in PET. Medical Physics, 2015, 42, 5720-5734.	3.0	16
102	Tumor Delineation and Quantitative Assessment of Glucose Metabolic Rate within Histologic Subtypes of Nonâ€“Small Cell Lung Cancer by Using Dynamic ¹⁸F Fluorodeoxyglucose PET. Radiology, 2017, 283, 547-559.	7.3	16
103	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
104	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
105	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
106	Autocontouring Versus Manual Contouring. Journal of Nuclear Medicine, 2011, 52, 658.1-658.	5.0	15
107	Image Enhancement With PDEs and Nonconservative Advection Flow Fields. IEEE Transactions on Image Processing, 2019, 28, 3075-3088.	9.8	15
108	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

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109	Dosimetric Validation of a GAN-Based Pseudo-CT Generation for MRI-Only Stereotactic Brain Radiotherapy. Cancers, 2021, 13, 1082.	3.7	15
110	Statistical harmonization can improve the development of a multicenter CTâ€based radiomic model predictive of nonresponse to induction chemotherapy in laryngeal cancers. Medical Physics, 2021, 48, 4099-4109.	3.0	15
111	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
112	Accelerated GPU based SPECT Monte Carlo simulations. Physics in Medicine and Biology, 2016, 61, 4001-4018.	3.0	14
113	Simultaneous Mapping of Vasculature, Hypoxia, and Proliferation Using Dynamic Susceptibility Contrast MRI, ¹⁸F-FMISO PET, and ¹⁸F-FLT PET in Relation to Contrast Enhancement in Newly Diagnosed Glioblastoma. Journal of Nuclear Medicine, 2021, 62, 1349-1356.	5.0	14
114	Development of a Radiomic-Based Model Predicting Lymph Node Involvement in Prostate Cancer Patients. Cancers, 2021, 13, 5672.	3.7	14
115	Fully automatic deformable registration of pretreatment <scp>MRI</scp>/<scp>CT</scp> for imageâ€guided prostate radiotherapy planning. Medical Physics, 2017, 44, 6447-6455.	3.0	13
116	Multicentric validation of radiomics findings: challenges and opportunities. EBioMedicine, 2019, 47, 20-21.	6.1	13
117	Transcriptomics in cancer revealed by Positron Emission Tomography radiomics. Scientific Reports, 2020, 10, 5660.	3.3	13
118	Prognostic Value of Head and Neck Tumor Proliferative Sphericity From 3â€™-Deoxy-3â€™-[¹⁸F] Fluorothymidine Positron Emission Tomography. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 33-40.	3.7	12
119	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
120	Radiomics Analysis of 3D Dose Distributions to Predict Toxicity of Radiotherapy for Cervical Cancer. Journal of Personalized Medicine, 2021, 11, 398.	2.5	12
121	Innovations in Small-Animal PET/MR Imaging Instrumentation. PET Clinics, 2016, 11, 105-118.	3.0	11
122	A 4D global respiratory motion model of the thorax based on <scp>CT</scp> images: A proof of concept. Medical Physics, 2018, 45, 3043-3051.	3.0	11
123	Prostate Volume Segmentation in TRUS Using Hybrid Edge-Bhattacharyya Active Surfaces. IEEE Transactions on Biomedical Engineering, 2019, 66, 920-933.	4.2	11
124	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
125	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
126	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

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127	Respiratory motion correction in PET with super-resolution techniques and non-rigid registration. , 2007, , .		10
128	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
129	PET respiratory motion correction: quo vadis?. Physics in Medicine and Biology, 2022, 67, 03TR02.	3.0	10
130	Defining Radiotherapy Target Volumes Using 18F-Fluoro-Deoxy-Glucose Positron Emission Tomography/Computed Tomography: Still a Pandoraâ€™s Box?: In Regard to Devic etÂal. (Int J Radiat Oncol) Tj ETQq0 0 0 rgB T /Overloc		
131	A novel brain PET insert for the MINDView project. , 2014, , .		9
132	New hybrid voxelized/analytical primitive in Monte Carlo simulations for medical applications. Physics in Medicine and Biology, 2016, 61, 3347-3364.	3.0	9
133	A framework based on hidden Markov trees for multimodal <scp>PET</scp>/<scp>CT</scp> image coâ€segmentation. Medical Physics, 2017, 44, 5835-5848.	3.0	9
134	Heterogeneity analysis of 18F-FDG PET imaging in oncology: clinical indications and perspectives. Clinical and Translational Imaging, 2018, 6, 393-410.	2.1	9
135	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
136	GPU-accelerated Monte Carlo based scatter correction in brain PET/MR. EJNMMI Physics, 2014, 1, A32.	2.7	8
137	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
138	Technical Note: Kinect V2 surface filtering during gantry motion for radiotherapy applications. Medical Physics, 2018, 45, 1400-1407.	3.0	8
139	A 2D-spline patient specific model for use in radiation therapy. , 2009, , .		7
140	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
141	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
142	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
143	Squeeze-and-Excitation Normalization for Brain Tumor Segmentation. Lecture Notes in Computer Science, 2021, , 366-373.	1.3	7
144	A deepâ€learningâ€based prediction model for the biodistribution of ⁹⁰Y microspheres in liver radioembolization. Medical Physics, 2021, 48, 7427-7438.	3.0	7

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145	Hybrid GATE: A GPU/CPU implementation for imaging and therapy applications. , 2012, , .		6
146	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
147	Pose optimization of a C-arm imaging device to reduce intraoperative radiation exposure of staff and patient during interventional procedures. , 2017, , .		6
148	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
149	A fast CPU/GPU ray projector for fully 3d list-mode PET reconstruction. , 2011, , .		5
150	A generic PET/MRI respiratory motion correction using a generalized reconstruction by inversion of coupled systems (GRICS) approach. , 2012, , .		5
151	Evaluation of the tumor registration error in biopsy procedures performed under realâ€time PET/CT guidance. Medical Physics, 2017, 44, 5089-5095.	3.0	5
152	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
153	Thoracic Stent-Graft Migration: The Role ofÂthe Geometric Modifications of the Stent-Graft at 3 years. Annals of Vascular Surgery, 2019, 58, 16-23.	0.9	5
154	Surface imaging for realâ€time patient respiratory function assessment in intensive care. Medical Physics, 2021, 48, 142-155.	3.0	5
155	Clinical Evaluation of a Three-Dimensional Internal Dosimetry Technique for Liver Radioembolization with ⁹⁰Y Microspheres Using Dose Voxel Kernels. Cancer Biotherapy and Radiopharmaceuticals, 2021, 36, 809-819.	1.0	5
156	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
157	Implementing Geant4 on GPU for medical applications. , 2011, , .		4
158	Comparative assessment of segmentation algorithms for tumor delineation on a testâ€retest [¹¹C]choline dataset. Medical Physics, 2012, 39, 7571-7579.	3.0	4
159	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
160	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
161	Development of a database of realistic simulated whole body [18F]FDG PET images for lymphoma. , 2008, , .		3
162	Biomedical Imaging: Role and Opportunities of Medical Imaging in the â€œOmicsâ€•Era. BioMed Research International, 2014, 2014, 1-2.	1.9	3

#	Article	IF	Citations
163	Kinect2 â€" Respiratory movement detection study. , 2016, 2016, 3875-3878.		3
164	A brain PET insert MR compatible: Final design and first results. , 2016, , .		3
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