

# Assen S Kirov

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

2,061  
citations

394421

19  
h-index

454955

30  
g-index

32  
all docs

32  
docs citations

32  
times ranked

2351  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precise radiochromic film dosimetry using a flat-bed document scanner. Medical Physics, 2005, 32, 2245-2253.	3.0	482
2	Dosimetric properties of improved GafChromic films for seven different digitizers. Medical Physics, 2004, 31, 2392-2401.	3.0	227
3	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
4	Quantitative evaluation of radiochromic film response for two-dimensional dosimetry. Medical Physics, 1997, 24, 223-231.	3.0	140
5	Validation of GATE Monte Carlo simulations of the GE Advance/Discovery LS PET scanners. Medical Physics, 2005, 33, 198-208.	3.0	119
6	The first MICCAI challenge on PET tumor segmentation. Medical Image Analysis, 2018, 44, 177-195.	11.6	116
7	Validation of a precision radiochromic film dosimetry system for quantitative two-dimensional imaging of acute exposure dose distributions. Medical Physics, 2000, 27, 2462-2475.	3.0	98
8	Motion monitoring for cranial frameless stereotactic radiosurgery using video-based three-dimensional optical surface imaging. Medical Physics, 2011, 38, 3981-3994.	3.0	98
9	Advanced Monte Carlo simulations of emission tomography imaging systems with GATE. Physics in Medicine and Biology, 2021, 66, 10TR03.	3.0	82
10	CD38-targeted Immuno-PET of Multiple Myeloma: From Xenograft Models to First-in-Human Imaging. Radiology, 2020, 295, 606-615.	7.3	73
11	[18F]FDG-Positron Emission Tomography Coregistration With Computed Tomography Scans for Radiation Treatment Planning of Lymphoma and Hematologic Malignancies. International Journal of Radiation Oncology Biology Physics, 2011, 81, 615-622.	0.8	69
12	Partial volume effect correction in PET using regularized iterative deconvolution with variance control based on local topology. Physics in Medicine and Biology, 2008, 53, 2577-2591.	3.0	60
13	Quantitative optical densitometry with scanning-laser film digitizers. Medical Physics, 1999, 26, 1721-1731.	3.0	49
14	The three-dimensional scintillation dosimetry method: test for a106Ru eye plaque applicator. Physics in Medicine and Biology, 2005, 50, 3063-3081.	3.0	42
15	Predicting energy response of radiographic film in a 6MV x-ray beam using Monte Carlo calculated fluence spectra and absorbed dose. Medical Physics, 2004, 31, 3168-3178.	3.0	41
16	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
17	PETSTEP: Generation of synthetic PET lesions for fast evaluation of segmentation methods. Physica Medica, 2015, 31, 969-980.	0.7	28
18	Feasibility of In Situ, High-Resolution Correlation of Tracer Uptake with Histopathology by Quantitative Autoradiography of Biopsy Specimens Obtained Under <sup>18</sup> F-FDG PET/CT Guidance. Journal of Nuclear Medicine, 2015, 56, 538-544.	5.0	28

#	ARTICLE	IF	CITATIONS
19	Analytical approach to heterogeneity correction factor calculation for brachytherapy. <i>Medical Physics</i> , 1998, 25, 722-735.	3.0	19
20	Ga-68 DOTATOC PET/CT-Guided Biopsy and Cryoablation with Autoradiography of Biopsy Specimen for Treatment of Tumor-Induced Osteomalacia. <i>CardioVascular and Interventional Radiology</i> , 2016, 39, 1352-1357.	2.0	19
21	Pathology-validated PET image data sets and their role in PET segmentation. <i>Clinical and Translational Imaging</i> , 2014, 2, 253-267.	2.1	13
22	Pencil beam approach for correcting the energy dependence artifact in film dosimetry for IMRT verification. <i>Medical Physics</i> , 2006, 33, 3690-3699.	3.0	12
23	An introduction to molecular imaging in radiation oncology: A report by the AAPM Working Group on Molecular Imaging in Radiation Oncology (WGMIR). <i>Medical Physics</i> , 2013, 40, 101501.	3.0	10
24	32P Brachytherapy Conformal Source Model RIC-100 for High-Dose-Rate Treatment of Superficial Disease: Monte Carlo Calculations, Diode Measurements, and Clinical Implementation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 746-752.	0.8	9
25	Practice and prospects for PET/CT guided interventions. <i>Quarterly Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 65, 20-31.	0.7	9
26	Technical Note: Scintillation well counters and particle counting digital autoradiography devices can be used to detect activities associated with genomic profiling adequacy of biopsy specimens obtained after a low activity $^{18}\text{F}$ -FDG injection. <i>Medical Physics</i> , 2018, 45, 2179-2185.	3.0	8
27	Evaluation of the tumor registration error in biopsy procedures performed under real-time PET/CT guidance. <i>Medical Physics</i> , 2017, 44, 5089-5095.	3.0	5
28	KRAS mutation effects on the 2-[ $^{18}\text{F}$ ]FDG PET uptake of colorectal adenocarcinoma metastases in the liver. <i>EJNMMI Research</i> , 2020, 10, 142.	2.5	4
29	Influence of photon energy cuts on PET Monte Carlo simulation results. <i>Medical Physics</i> , 2012, 39, 4175-4186.	3.0	2
30	PET quantification inaccuracy of non-uniform tracer distributions for radiation therapy. , 2007, , .		1
31	Interventional molecular imaging. <i>Quarterly Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 65, 1-3.	0.7	1