

Simon J Doran

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1710448/publications.pdf>

Version: 2024-02-01

42
papers

1,351
citations

361045

20
h-index

344852

36
g-index

43
all docs

43
docs citations

43
times ranked

1365
citing authors

#	ARTICLE	IF	CITATIONS
1	A complete distortion correction for MR images: I. Gradient warp correction. <i>Physics in Medicine and Biology</i> , 2005, 50, 1343-1361.	1.6	201
2	A CCD-based optical CT scanner for high-resolution 3D imaging of radiation dose distributions: equipment specifications, optical simulations and preliminary results. <i>Physics in Medicine and Biology</i> , 2001, 46, 3191-3213.	1.6	148
3	Radiomics in Oncology: A Practical Guide. <i>Radiographics</i> , 2021, 41, 1717-1732.	1.4	139
4	The history and principles of chemical dosimetry for 3-D radiation fields: Gels, polymers and plastics. <i>Applied Radiation and Isotopes</i> , 2009, 67, 393-398.	0.7	85
5	Medical physics aspects of the synchrotron radiation therapies: Microbeam radiation therapy (MRT) and synchrotron stereotactic radiotherapy (SSRT). <i>Physica Medica</i> , 2015, 31, 568-583.	0.4	83
6	Focusing optics of a parallel beam CCD optical tomography apparatus for 3D radiation gel dosimetry. <i>Physics in Medicine and Biology</i> , 2006, 51, 2055-2075.	1.6	70
7	Characterization of a parallel-beam CCD optical-CT apparatus for 3D radiation dosimetry. <i>Physics in Medicine and Biology</i> , 2007, 52, 3693-3713.	1.6	67
8	Fast laser scanning optical-CT apparatus for 3D radiation dosimetry. <i>Physics in Medicine and Biology</i> , 2007, 52, N257-N263.	1.6	50
9	Sophisticated test objects for the quality assurance of optical computed tomography scanners. <i>Physics in Medicine and Biology</i> , 2011, 56, 4177-4199.	1.6	31
10	Water and tissue equivalence of a new PRESAGE [®] formulation for 3D proton beam dosimetry: A Monte Carlo study. <i>Medical Physics</i> , 2012, 39, 7071-7079.	1.6	31
11	Spatial patterns of tumour growth impact clonal diversification in a computational model and the TRACERx Renal study. <i>Nature Ecology and Evolution</i> , 2022, 6, 88-102.	3.4	30
12	Radiomic features of cervical cancer on T2-and diffusion-weighted MRI: Prognostic value in low-volume tumors suitable for trachelectomy. <i>Gynecologic Oncology</i> , 2020, 156, 107-114.	0.6	29
13	Eliminating the need for refractive index matching in optical CT scanners for radiotherapy dosimetry: I. Concept and simulations. <i>Physics in Medicine and Biology</i> , 2012, 57, 665-683.	1.6	28
14	Repeatability and sensitivity of measurements in patients with head and neck squamous cell carcinoma at 3T. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 72-80.	1.9	27
15	The history and principles of optical computed tomography for scanning 3-D radiation dosimeters: 2008 update. <i>Journal of Physics: Conference Series</i> , 2009, 164, 012020.	0.3	26
16	An investigation of the potential of optical computed tomography for imaging of synchrotron-generated x-rays at high spatial resolution. <i>Physics in Medicine and Biology</i> , 2010, 55, 1531-1547.	1.6	23
17	Novel Multicompartment 3-Dimensional Radiochromic Radiation Dosimeters for Nanoparticle-Enhanced Radiation Therapy Dosimetry. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 84, e549-e555.	0.4	23
18	Breast MRI segmentation for density estimation: Do different methods give the same results and how much do differences matter?. <i>Medical Physics</i> , 2017, 44, 4573-4592.	1.6	23

#	ARTICLE	IF	CITATIONS
19	Establishing the suitability of quantitative optical CT microscopy of PRESAGE® radiochromic dosimeters for the verification of synchrotron microbeam therapy. <i>Physics in Medicine and Biology</i> , 2013, 58, 6279-6297.	1.6	22
20	A computerized volumetric segmentation method applicable to multi-centre MRI data to support computer-aided breast tissue analysis, density assessment and lesion localization. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 57-68.	1.6	21
21	Investigating the effect of a magnetic field on dose distributions at phantom-air interfaces using PRESAGE [®] 3D dosimeter and Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2018, 63, 05NT01.	1.6	21
22	Assessment of optical CT as a future QA tool for synchrotron x-ray microbeam therapy. <i>Physics in Medicine and Biology</i> , 2016, 61, 320-337.	1.6	19
23	Frog calls echo microsatellite phylogeography in the European pool frog (<i>Rana lessonae</i>). <i>Journal of Zoology</i> , 2002, 258, 479-484.	0.8	18
24	Informatics in Radiology: Development of a Research PACS for Analysis of Functional Imaging Data in Clinical Research and Clinical Trials. <i>Radiographics</i> , 2012, 32, 2135-2150.	1.4	18
25	Issues involved in the quantitative 3D imaging of proton doses using optical CT and chemical dosimeters. <i>Physics in Medicine and Biology</i> , 2015, 60, 709-726.	1.6	17
26	Prospective, longitudinal, multi-modal functional imaging for radical chemo-IMRT treatment of locally advanced head and neck cancer: the INSIGHT study. <i>Radiation Oncology</i> , 2015, 10, 112.	1.2	15
27	STEAM-Burst: A single-shot, multi-slice imaging sequence without rapid gradient switching. <i>Magnetic Resonance in Medicine</i> , 1997, 38, 645-652.	1.9	13
28	“Real-world” radiomics from multi-vendor MRI: an original retrospective study on the prediction of nodal status and disease survival in breast cancer, as an exemplar to promote discussion of the wider issues. <i>Cancer Imaging</i> , 2021, 21, 37.	1.2	13
29	Impact of curing conditions on basic dosimetric properties of silicone-based radiochromic dosimeters for photon and proton irradiation. <i>Acta Oncologica</i> , 2022, 61, 264-268.	0.8	10
30	Burst imaging “Can it ever be useful in the clinic?”. <i>Concepts in Magnetic Resonance Part A: Bridging Education and Research</i> , 2005, 26A, 11-34.	0.2	7
31	Verification of synchrotron microbeam radiation therapy using a purpose-built optical CT microscope. <i>Journal of Physics: Conference Series</i> , 2010, 250, 012083.	0.3	7
32	Dose response of three-dimensional silicone-based radiochromic dosimeters for photon irradiation in the presence of a magnetic field. <i>Physics and Imaging in Radiation Oncology</i> , 2020, 16, 81-84.	1.2	7
33	Integrating the OHIF Viewer into XNAT: Achievements, Challenges and Prospects for Quantitative Imaging Studies. <i>Tomography</i> , 2022, 8, 497-512.	0.8	7
34	Growth Trajectories, Breast Size, and Breast-Tissue Composition in a British Prebirth Cohort of Young Women. <i>American Journal of Epidemiology</i> , 2018, 187, 1259-1268.	1.6	6
35	Circulating Growth and Sex Hormone Levels and Breast Tissue Composition in Young Nulliparous Women. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2018, 27, 1500-1508.	1.1	4
36	CCD-based optical CT scanning of highly attenuating phantoms. <i>Journal of Physics: Conference Series</i> , 2009, 164, 012023.	0.3	3

#	ARTICLE	IF	CITATIONS
37	Creation of sophisticated test objects for quality assurance of optical computed tomography scanners. <i>Journal of Physics: Conference Series</i> , 2010, 250, 012046.	0.3	3
38	Detecting microvascular changes in the mouse spleen using optical computed tomography. <i>Microvascular Research</i> , 2015, 101, 96-102.	1.1	2
39	Radiotherapy in the presence of magnetic fields: a brief review of detector response characteristics and the contribution of 3-D measurements to the study of dose distributions at interfaces. <i>Journal of Physics: Conference Series</i> , 2019, 1305, 012006.	0.3	2
40	Enhanced method for determining the low-LET saturation dose of PRESAGE®. <i>Journal of Physics: Conference Series</i> , 2017, 847, 012028.	0.3	1
41	Characterization of small PRESAGE® samples for measurements near the dosimeter edges. <i>Journal of Physics: Conference Series</i> , 2019, 1305, 012009.	0.3	1
42	Regional accents in the Pool Frog? Development of new computer analytical techniques aids bioacoustic separation of Pool Frog populations and may elucidate the status of Norfolk Pool Frogs. <i>Zoosystematics and Evolution</i> , 2001, 77, 25-30.	0.4	0