

Simon J Doran

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,351
citations

361413
20
h-index

345221
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.	3.0	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.	3.0	148
3	Radiomics in Oncology: A Practical Guide. <i>Radiographics</i> , 2021, 41, 1717-1732.	3.3	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.	1.5	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.	0.7	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.	3.0	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.	3.0	67
8	Fast laser scanning optical-CT apparatus for 3D radiation dosimetry. <i>Physics in Medicine and Biology</i> , 2007, 52, N257-N263.	3.0	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.	3.0	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.	3.0	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.	7.8	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.	1.4	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.	3.0	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.	3.4	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.	0.4	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.	3.0	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.	0.8	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.	3.0	23

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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.	3.0	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.	2.8	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.	3.0	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.	3.0	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.	1.7	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.	3.3	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.	3.0	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.	2.7	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.	3.0	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.	2.8	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.	1.8	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.	0.5	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.	0.4	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.	2.9	7
33	Integrating the OHIF Viewer into XNAT: Achievements, Challenges and Prospects for Quantitative Imaging Studies. <i>Tomography</i> , 2022, 8, 497-512.	1.8	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.	3.4	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.	2.5	4
36	CCD-based optical CT scanning of highly attenuating phantoms. <i>Journal of Physics: Conference Series</i> , 2009, 164, 012023.	0.4	3

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37	Creation of sophisticated test objects for quality assurance of optical computed tomography scanners. Journal of Physics: Conference Series, 2010, 250, 012046.	0.4	3
38	Detecting microvascular changes in the mouse spleen using optical computed tomography. Microvascular Research, 2015, 101, 96-102.	2.5	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. Journal of Physics: Conference Series, 2019, 1305, 012006.	0.4	2
40	Enhanced method for determining the low-LET saturation dose of PRESAGE®. Journal of Physics: Conference Series, 2017, 847, 012028.	0.4	1
41	Characterization of small PRESAGE® samples for measurements near the dosimeter edges. Journal of Physics: Conference Series, 2019, 1305, 012009.	0.4	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. Zoosystematics and Evolution, 2001, 77, 25-30.	1.1	0