

George A Sandison

List of Publications by Year in descending order

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37
papers

1,266
citations

471371

17
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360920

35
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all docs

37
docs citations

37
times ranked

1400
citing authors

#	ARTICLE	IF	CITATIONS
1	Reducing Cardiac Radiation Dose From Breast Cancer Radiation Therapy With Breath Hold Training and Cognitive Behavioral Therapy. Topics in Magnetic Resonance Imaging, 2020, 29, 135-148.	0.7	11
2	Tumor radiomic heterogeneity: Multiparametric functional imaging to characterize variability and predict response following cervical cancer radiation therapy. Journal of Magnetic Resonance Imaging, 2018, 47, 1388-1396.	1.9	82
3	Does Neutron Radiation Therapy Potentiate an Immune Response to Merkel Cell Carcinoma?. International Journal of Particle Therapy, 2018, 5, 183-195.	0.9	15
4	Functional lung avoidance and response-adaptive escalation (FLARE) RT: Multimodality plan dosimetry of a precision radiation oncology strategy. Medical Physics, 2017, 44, 3418-3429.	1.6	55
5	Measuring total liver function on sulfur colloid SPECT/CT for improved risk stratification and outcome prediction of hepatocellular carcinoma patients. EJNMMI Research, 2016, 6, 57.	1.1	25
6	MCNP6 model of the University of Washington clinical neutron therapy system (CNTS). Physics in Medicine and Biology, 2016, 61, 937-957.	1.6	10
7	Ill-posed problem and regularization in reconstruction of radiobiological parameters from serial tumor imaging data. Physics in Medicine and Biology, 2015, 60, 8491-8503.	1.6	10
8	Differential hepatic avoidance radiation therapy: Proof of concept in hepatocellular carcinoma patients. Radiotherapy and Oncology, 2015, 115, 203-210.	0.3	26
9	Quantitative radiomics: impact of stochastic effects on textural feature analysis implies the need for standards. Journal of Medical Imaging, 2015, 2, 041002.	0.8	110
10	Rapid MCNP simulation of DNA double strand break (DSB) relative biological effectiveness (RBE) for photons, neutrons, and light ions. Physics in Medicine and Biology, 2015, 60, 8249-8274.	1.6	81
11	Validation of the photon convolution-superposition algorithm applied to fast neutron beams. Journal of Applied Clinical Medical Physics, 2013, 14, 133-154.	0.8	10
12	Combined Use of Monte Carlo DNA Damage Simulations and Deterministic Repair Models to Examine Putative Mechanisms of Cell Killing. Radiation Research, 2008, 169, 447-459.	0.7	123
13	Dosimetric impact of intrafraction motion for compensator-based proton therapy of lung cancer. Physics in Medicine and Biology, 2008, 53, 3343-3364.	1.6	18
14	Neutron scattered dose equivalent to a fetus from proton radiotherapy of the mother. Medical Physics, 2006, 33, 2479-2490.	1.6	96
15	Reconstruction of electron spectra from depth doses with adaptive regularization. Medical Physics, 2006, 33, 354-359.	1.6	12
16	Numerical Simulation for Heat Transfer in Prostate Cancer Cryosurgery. Journal of Biomechanical Engineering, 2005, 127, 279-294.	0.6	62
17	A microscale model for prediction of breast cancer cell damage during cryosurgery. Cryobiology, 2003, 47, 143-154.	0.3	48
18	Angular correction in reconstruction of electron spectra from depth dose distributions. Medical Physics, 2003, 30, 2155-2158.	1.6	9

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19	Intensity and energy modulated radiotherapy with proton beams: Variables affecting optimal prostate plan. Medical Physics, 2002, 29, 176-189.	1.6	12
20	Reconstruction of electron spectra using singular component decomposition. Medical Physics, 2002, 29, 578-591.	1.6	24
21	Future directions for cryosurgery computer treatment planning. Urology, 2002, 60, 50-55.	0.5	12
22	A model for the time dependent three-dimensional thermal distribution within iceballs surrounding multiple cryoprobes. Medical Physics, 2001, 28, 1125-1137.	1.6	81
23	The energy-dependent electron loss model for pencil beam dose kernels. Physics in Medicine and Biology, 2000, 45, 2913-2930.	1.6	2
24	Depth ionization curves for an unmodulated proton beam measured with different ionization chambers. Medical Physics, 2000, 27, 2780-2787.	1.6	17
25	Proton loss model for therapeutic beam dose calculations. Medical Physics, 2000, 27, 2133-2145.	1.6	16
26	A Monte Carlo comparison of the response of the PTW-diamond and the TL-diamond detectors in megavoltage photon beams. Medical Physics, 1999, 26, 2503-2507.	1.6	12
27	An EGS4 Monte Carlo examination of the response of a PTW-diamond radiation detector in megavoltage electron beams. Medical Physics, 1999, 26, 839-844.	1.6	21
28	Considerations during clinical operation of two commercially available cryomachines. , 1999, 71, 106-111.		50
29	The concept of mass angular scattering power and its relation to the diffusion constant. Radiation Physics and Chemistry, 1998, 53, 295-304.	1.4	1
30	A model for the time-dependent thermal distribution within an iceball surrounding a cryoprobe. Physics in Medicine and Biology, 1998, 43, 3519-3534.	1.6	67
31	X-ray CT monitoring of iceball growth and thermal distribution during cryosurgery. Physics in Medicine and Biology, 1998, 43, 3309-3324.	1.6	85
32	Extension of a numerical algorithm to proton dose calculations. I. Comparisons with Monte Carlo simulations. Medical Physics, 1997, 24, 841-849.	1.6	15
33	Comparative N gas measurements for a parallel plate chamber in proton, electron, and 60 Co beams. Medical Physics, 1995, 22, 2057-2063.	1.6	3
34	Estimates of the effective dose equivalent, HE, in positron emission tomography studies. European Journal of Nuclear Medicine and Molecular Imaging, 1990, 17, 116-120.	2.2	12
35	A diffusion model with loss of particles. Advances in Applied Probability, 1990, 22, 533-547.	0.4	4
36	Patient doses from computed tomography in Manitoba from 1977 to 1987. British Journal of Radiology, 1989, 62, 138-144.	1.0	13

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37	The use of the effective dose equivalent, H E, for 99mTc labelled radiopharmaceuticals. European Journal of Nuclear Medicine and Molecular Imaging, 1989, 15, 174-179.	2.2	16