George A Sandison

List of Publications by Year
in descending order

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37 papers	1,266 citations	471061 17 h-index	360668 35 g-index
37 all docs	37 docs citations	37 times ranked	1400 citing authors

#	Article	IF	Citations
1	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
2	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
3	Neutron scattered dose equivalent to a fetus from proton radiotherapy of the mother. Medical Physics, 2006, 33, 2479-2490.	1.6	96
4	X-ray CT monitoring of iceball growth and thermal distribution during cryosurgery. Physics in Medicine and Biology, 1998, 43, 3309-3324.	1.6	85
5	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
6	A model for the time dependent threeâ€dimensional thermal distribution within iceballs surrounding multiple cryoprobes. Medical Physics, 2001, 28, 1125-1137.	1.6	81
7	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
8	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
9	Numerical Simulation for Heat Transfer in Prostate Cancer Cryosurgery. Journal of Biomechanical Engineering, 2005, 127, 279-294.	0.6	62
10	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
11	Considerations during clinical operation of two commercially available cryomachines. , 1999, 71, 106-111.		50
12	A microscale model for prediction of breast cancer cell damage during cryosurgery. Cryobiology, 2003, 47, 143-154.	0.3	48
13	Differential hepatic avoidance radiation therapy: Proof of concept in hepatocellular carcinoma patients. Radiotherapy and Oncology, 2015, 115, 203-210.	0.3	26
14	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
15	Reconstruction of electron spectra using singular component decomposition. Medical Physics, 2002, 29, 578-591.	1.6	24
16	AnEGS4Monte Carlo examination of the response of a PTW-diamond radiation detector in megavoltage electron beams. Medical Physics, 1999, 26, 839-844.	1.6	21
17	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
18	Depth ionization curves for an unmodulated proton beam measured with different ionization chambers. Medical Physics, 2000, 27, 2780-2787.	1.6	17

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19	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
20	Proton loss model for therapeutic beam dose calculations. Medical Physics, 2000, 27, 2133-2145.	1.6	16
21	Extension of a numerical algorithm to proton dose calculations. I. Comparisons with Monte Carlo simulations. Medical Physics, 1997, 24, 841-849.	1.6	15
22	Does Neutron Radiation Therapy Potentiate an Immune Response to Merkel Cell Carcinoma?. International Journal of Particle Therapy, 2018, 5, 183-195.	0.9	15
23	Patient doses from computed tomography in Manitoba from 1977 to 1987. British Journal of Radiology, 1989, 62, 138-144.	1.0	13
24	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
25	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
26	Intensity and energy modulated radiotherapy with proton beams: Variables affecting optimal prostate plan. Medical Physics, 2002, 29, 176-189.	1.6	12
27	Future directions for cryosurgery computer treatment planning. Urology, 2002, 60, 50-55.	0.5	12
28	Reconstruction of electron spectra from depth doses with adaptive regularization. Medical Physics, 2006, 33, 354-359.	1.6	12
29	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
30	Validation of the photon convolutionâ€superposition algorithm applied to fast neutron beams. Journal of Applied Clinical Medical Physics, 2013, 14, 133-154.	0.8	10
31	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
32	MCNP6 model of the University of Washington clinical neutron therapy system (CNTS). Physics in Medicine and Biology, 2016, 61, 937-957.	1.6	10
33	Angular correction in reconstruction of electron spectra from depth dose distributions. Medical Physics, 2003, 30, 2155-2158.	1.6	9
34	A diffusion model with loss of particles. Advances in Applied Probability, 1990, 22, 533-547.	0.4	4
35	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
36	The energy-dependent electron loss model for pencil beam dose kernels. Physics in Medicine and Biology, 2000, 45, 2913-2930.	1.6	2

#	Article	IF	Citations
37	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