

# George A Sandison

## List of Publications by Year in descending order

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37  
papers

1,266  
citations

471509

17  
h-index

361022

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. <i>Radiation Research</i> , 2008, 169, 447-459.	1.5	123
2	Quantitative radiomics: impact of stochastic effects on textural feature analysis implies the need for standards. <i>Journal of Medical Imaging</i> , 2015, 2, 041002.	1.5	110
3	Neutron scattered dose equivalent to a fetus from proton radiotherapy of the mother. <i>Medical Physics</i> , 2006, 33, 2479-2490.	3.0	96
4	X-ray CT monitoring of iceball growth and thermal distribution during cryosurgery. <i>Physics in Medicine and Biology</i> , 1998, 43, 3309-3324.	3.0	85
5	Tumor radiomic heterogeneity: Multiparametric functional imaging to characterize variability and predict response following cervical cancer radiation therapy. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 47, 1388-1396.	3.4	82
6	A model for the time dependent three-dimensional thermal distribution within iceballs surrounding multiple cryoprobes. <i>Medical Physics</i> , 2001, 28, 1125-1137.	3.0	81
7	Rapid MCNP simulation of DNA double strand break (DSB) relative biological effectiveness (RBE) for photons, neutrons, and light ions. <i>Physics in Medicine and Biology</i> , 2015, 60, 8249-8274.	3.0	81
8	A model for the time-dependent thermal distribution within an iceball surrounding a cryoprobe. <i>Physics in Medicine and Biology</i> , 1998, 43, 3519-3534.	3.0	67
9	Numerical Simulation for Heat Transfer in Prostate Cancer Cryosurgery. <i>Journal of Biomechanical Engineering</i> , 2005, 127, 279-294.	1.3	62
10	Functional lung avoidance and response-adaptive escalation (FLARE) RT: Multimodality plan dosimetry of a precision radiation oncology strategy. <i>Medical Physics</i> , 2017, 44, 3418-3429.	3.0	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. <i>Cryobiology</i> , 2003, 47, 143-154.	0.7	48
13	Differential hepatic avoidance radiation therapy: Proof of concept in hepatocellular carcinoma patients. <i>Radiotherapy and Oncology</i> , 2015, 115, 203-210.	0.6	26
14	Measuring total liver function on sulfur colloid SPECT/CT for improved risk stratification and outcome prediction of hepatocellular carcinoma patients. <i>EJNMMI Research</i> , 2016, 6, 57.	2.5	25
15	Reconstruction of electron spectra using singular component decomposition. <i>Medical Physics</i> , 2002, 29, 578-591.	3.0	24
16	AnEGS4Monte Carlo examination of the response of a PTW-diamond radiation detector in megavoltage electron beams. <i>Medical Physics</i> , 1999, 26, 839-844.	3.0	21
17	Dosimetric impact of intrafraction motion for compensator-based proton therapy of lung cancer. <i>Physics in Medicine and Biology</i> , 2008, 53, 3343-3364.	3.0	18
18	Depth ionization curves for an unmodulated proton beam measured with different ionization chambers. <i>Medical Physics</i> , 2000, 27, 2780-2787.	3.0	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.	2.1	16
20	Proton loss model for therapeutic beam dose calculations. Medical Physics, 2000, 27, 2133-2145.	3.0	16
21	Extension of a numerical algorithm to proton dose calculations. I. Comparisons with Monte Carlo simulations. Medical Physics, 1997, 24, 841-849.	3.0	15
22	Does Neutron Radiation Therapy Potentiate an Immune Response to Merkel Cell Carcinoma?. International Journal of Particle Therapy, 2018, 5, 183-195.	1.8	15
23	Patient doses from computed tomography in Manitoba from 1977 to 1987. British Journal of Radiology, 1989, 62, 138-144.	2.2	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.	2.1	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.	3.0	12
26	Intensity and energy modulated radiotherapy with proton beams: Variables affecting optimal prostate plan. Medical Physics, 2002, 29, 176-189.	3.0	12
27	Future directions for cryosurgery computer treatment planning. Urology, 2002, 60, 50-55.	1.0	12
28	Reconstruction of electron spectra from depth doses with adaptive regularization. Medical Physics, 2006, 33, 354-359.	3.0	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.	1.2	11
30	Validation of the photon convolution-superposition algorithm applied to fast neutron beams. Journal of Applied Clinical Medical Physics, 2013, 14, 133-154.	1.9	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.	3.0	10
32	MCNP6 model of the University of Washington clinical neutron therapy system (CNTS). Physics in Medicine and Biology, 2016, 61, 937-957.	3.0	10
33	Angular correction in reconstruction of electron spectra from depth dose distributions. Medical Physics, 2003, 30, 2155-2158.	3.0	9
34	A diffusion model with loss of particles. Advances in Applied Probability, 1990, 22, 533-547.	0.7	4
35	Comparative N gas measurements for a parallel plate chamber in proton, electron, and 60 Co beams. Medical Physics, 1995, 22, 2057-2063.	3.0	3
36	The energy-dependent electron loss model for pencil beam dose kernels. Physics in Medicine and Biology, 2000, 45, 2913-2930.	3.0	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.	2.8	1