

Robert D Stewart

List of Publications by Year in descending order

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48
papers

2,237
citations

331670

21
h-index

233421

45
g-index

49
all docs

49
docs citations

49
times ranked

2222
citing authors

#	ARTICLE	IF	CITATIONS
1	Induction and Repair of Clustered DNA Lesions: What Do We Know So Far?. Radiation Research, 2013, 180, 100-109.	1.5	239
2	Impact of prolonged fraction delivery times on tumor control: A note of caution for intensity-modulated radiation therapy (IMRT). International Journal of Radiation Oncology Biology Physics, 2003, 57, 543-552.	0.8	192
3	Report of the <scp>AAPM TG</scp> 256 on the relative biological effectiveness of proton beams in radiation therapy. Medical Physics, 2019, 46, e53-e78.	3.0	189
4	Effects of Radiation Quality and Oxygen on Clustered DNA Lesions and Cell Death. Radiation Research, 2011, 176, 587-602.	1.5	171
5	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.	1.5	123
6	Effects of oxygen on intrinsic radiation sensitivity: A test of the relationship between aerobic and	3.0	117
7	A Mechanism-Based Approach to Predict the Relative Biological Effectiveness of Protons and Carbon Ions in Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2012, 83, 442-450.	0.8	113
8	Toward Patient-Specific, Biologically Optimized Radiation Therapy Plans for the Treatment of Glioblastoma. PLoS ONE, 2013, 8, e79115.	2.5	101
9	Neutron scattered dose equivalent to a fetus from proton radiotherapy of the mother. Medical Physics, 2006, 33, 2479-2490.	3.0	96
10	Systemic mechanisms and effects of ionizing radiation: A new "old" paradigm of how the bystanders and distant can become the players. Seminars in Cancer Biology, 2016, 37-38, 77-95.	9.6	96
11	Comparison of in vitro and in vivo \hat{A}/\hat{A} ratios for prostate cancer. Physics in Medicine and Biology, 2004, 49, 4477-4491.	3.0	95
12	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.	3.0	81
13	A comparison of mechanism-inspired models for particle relative biological effectiveness (RBE). Medical Physics, 2018, 45, e925-e952.	3.0	69
14	BGRT: Biologically guided radiation therapy "The future is fast approaching!. Medical Physics, 2007, 34, 3739-3751.	3.0	57
15	Extension of TOPAS for the simulation of proton radiation effects considering molecular and cellular endpoints. Physics in Medicine and Biology, 2015, 60, 5053-5070.	3.0	56
16	Induction and Processing of Oxidative Clustered DNA Lesions in ^{56}Fe -Ion-Irradiated Human Monocytes. Radiation Research, 2007, 168, 87-97.	1.5	55
17	Dose escalation in permanent brachytherapy for prostate cancer: dosimetric and biological considerations. Physics in Medicine and Biology, 2003, 48, 2753-2765.	3.0	44
18	Neutron Exposures in Human Cells: Bystander Effect and Relative Biological Effectiveness. PLoS ONE, 2014, 9, e98947.	2.5	32

#	ARTICLE	IF	CITATIONS
19	Equivalence of the linear-quadratic and two-lesion kinetic models. <i>Physics in Medicine and Biology</i> , 2002, 47, 3197-3209.	3.0	29
20	Effective Target Size for the Induction of Bystander Effects in Medium Transfer Experiments. <i>Radiation Research</i> , 2007, 168, 627-630.	1.5	23
21	On the biophysical interpretation of lethal DNA lesions induced by ionising radiation. <i>Radiation Protection Dosimetry</i> , 2006, 122, 169-172.	0.8	22
22	Biological and dosimetric characterisation of spatially fractionated proton minibeam. <i>Physics in Medicine and Biology</i> , 2017, 62, 9260-9281.	3.0	18
23	Modeling prostate cancer: In regards to Nahum et al. (<i>Int J Radiat Oncol Biol Phys</i> 2003;57:391-401). <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 61, 309-310.	0.8	17
24	Investigation of effective decision criteria for multiobjective optimization in IMRT. <i>Medical Physics</i> , 2011, 38, 2964-2974.	3.0	17
25	A feasibility study: Selection of a personalized radiotherapy fractionation schedule using spatiotemporal optimization. <i>Medical Physics</i> , 2015, 42, 6671-6678.	3.0	17
26	Dosimetric characteristics of the University of Washington Clinical Neutron Therapy System. <i>Physics in Medicine and Biology</i> , 2018, 63, 105008.	3.0	17
27	Does Neutron Radiation Therapy Potentiate an Immune Response to Merkel Cell Carcinoma?. <i>International Journal of Particle Therapy</i> , 2018, 5, 183-195.	1.8	15
28	Induction of DNA Damage by Light Ions Relative to ^{60}Co γ -rays. <i>International Journal of Particle Therapy</i> , 2018, 5, 25-39.	1.8	15
29	The Dancing Cord: Inherent Spinal Cord Motion and Its Effect on Cord Dose in Spine Stereotactic Body Radiation Therapy. <i>Neurosurgery</i> , 2020, 87, 1157-1166.	1.1	14
30	DNA double strand break (DSB) induction and cell survival in iodine-enhanced computed tomography (CT). <i>Physics in Medicine and Biology</i> , 2017, 62, 6164-6184.	3.0	13
31	In vitro determination of radiation sensitivity parameters for DU-145 prostate cancer cells. <i>International Journal of Radiation Biology</i> , 2008, 84, 515-522.	1.8	11
32	MCNP6 model of the University of Washington clinical neutron therapy system (CNTS). <i>Physics in Medicine and Biology</i> , 2016, 61, 937-957.	3.0	10
33	Comparative photon and proton dosimetry for patients with mediastinal lymphoma in the era of Monte Carlo treatment planning and variable relative biological effectiveness. <i>Radiation Oncology</i> , 2019, 14, 243.	2.7	10
34	Mechanistic Modeling of the Relative Biological Effectiveness of Boron Neutron Capture Therapy. <i>Cells</i> , 2020, 9, 2302.	4.1	10
35	Designing equivalent treatment regimens for prostate radiotherapy based on equivalent uniform dose. <i>British Journal of Radiology</i> , 2008, 81, 59-68.	2.2	9
36	An Extended Tabulation of Effective Dose Equivalent from Neutrons Incident on a Male Anthropomorphic Phantom. <i>Health Physics</i> , 1993, 65, 405-413.	0.5	8

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37	Retrospective analysis of double-strand break rejoining data collected using warm-lysis PFGE protocols. <i>International Journal of Radiation Biology</i> , 2005, 81, 421-428.	1.8	7
38	Fourth Intercomparison of Personal Dosimeters used in US Department of Energy Accelerator Facilities. <i>Radiation Protection Dosimetry</i> , 2000, 87, 77-86.	0.8	6
39	Reducing the Cost of Proton Radiation Therapy: The Feasibility of a Streamlined Treatment Technique for Prostate Cancer. <i>Cancers</i> , 2015, 7, 688-705.	3.7	6
40	Comparisons of 3-Dimensional Conformal and Intensity-Modulated Neutron Therapy for Head and Neck Cancers. <i>International Journal of Particle Therapy</i> , 2021, 8, 51-61.	1.8	5
41	Volume effects in the TCP for hypoxic and oxygenated tumors. <i>Medical Physics</i> , 2020, 47, 4626-4633.	3.0	4
42	Scattering kernels for fast neutron therapy treatment planning. <i>Physics in Medicine and Biology</i> , 2020, 65, 165009.	3.0	3
43	Tumor control probability in hypofractionated radiotherapy as a function of total and hypoxic tumor volumes. <i>Physics in Medicine and Biology</i> , 2021, 66, 125010.	3.0	2
44	Mechanistic Modeling of the Relative Biological Effectiveness of Photon, Proton, and Carbon Ion Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, S48-S49.	0.8	1
45	Fast-neutron testing at the University of Washington Medical Cyclotron Facility. , 2019, , .		1
46	A new approach to modeling the microdosimetry of proton therapy beams. <i>Medical Physics</i> , 2020, 47, 3184-3190.	3.0	1
47	A Monte-Carlo Derived Dual-Source Model for Helical Tomotherapy Treatment Planning. <i>Technology in Cancer Research and Treatment</i> , 2008, 7, 141-147.	1.9	0
48	Towards Temporal Optimization of Radiation Fractionation: The Kinetic Effects of Tumor Hypoxia, DNA Damage Repair, and Tumor Cell Repopulation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 75, S615-S616.	0.8	0