Robert D Stewart

List of Publications by Year
in descending order

48 papers	2,237 citations	331259 21 h-index	233125 45 g-index
49 all docs	49 docs citations	49 times ranked	2222 citing authors

#	Article	IF	Citations
1	Tumor control probability in hypofractionated radiotherapy as a function of total and hypoxic tumor volumes. Physics in Medicine and Biology, 2021, 66, 125010.	1.6	2
2	Comparisons of 3-Dimensional Conformal and Intensity-Modulated Neutron Therapy for Head and Neck Cancers. International Journal of Particle Therapy, 2021, 8, 51-61.	0.9	5
3	Mechanistic Modeling of the Relative Biological Effectiveness of Boron Neutron Capture Therapy. Cells, 2020, 9, 2302.	1.8	10
4	Volume effects in the TCP for hypoxic and oxygenated tumors. Medical Physics, 2020, 47, 4626-4633.	1.6	4
5	The Dancing Cord: Inherent Spinal Cord Motion and Its Effect on Cord Dose in Spine Stereotactic Body Radiation Therapy. Neurosurgery, 2020, 87, 1157-1166.	0.6	14
6	Scattering kernels for fast neutron therapy treatment planning. Physics in Medicine and Biology, 2020, 65, 165009.	1.6	3
7	A new approach to modeling the microdosimetry of proton therapy beams. Medical Physics, 2020, 47, 3184-3190.	1.6	1
8	Report of the <scp>AAPM TG</scp>â€256 on the relative biological effectiveness of proton beams in radiation therapy. Medical Physics, 2019, 46, e53-e78.	1.6	189
9	Fast-neutron testing at the University of Washington Medical Cyclotron Facility. , 2019, , .		1
10	Comparative photon and proton dosimetry for patients with mediastinal lymphoma in the era of Monte Carlo treatment planning and variable relative biological effectiveness. Radiation Oncology, 2019, 14, 243.	1.2	10
11	Dosimetric characteristics of the University of Washington Clinical Neutron Therapy System. Physics in Medicine and Biology, 2018, 63, 105008.	1.6	17
12	A comparison of mechanismâ€inspired models for particle relative biological effectiveness (RBE). Medical Physics, 2018, 45, e925-e952.	1.6	69
13	Does Neutron Radiation Therapy Potentiate an Immune Response to Merkel Cell Carcinoma?. International Journal of Particle Therapy, 2018, 5, 183-195.	0.9	15
14	Induction of DNA Damage by Light Ions Relative to 60Co Î3-rays. International Journal of Particle Therapy, 2018, 5, 25-39.	0.9	15
15	DNA double strand break (DSB) induction and cell survival in iodine-enhanced computed tomography (CT). Physics in Medicine and Biology, 2017, 62, 6164-6184.	1.6	13
16	Biological and dosimetric characterisation of spatially fractionated proton minibeams. Physics in Medicine and Biology, 2017, 62, 9260-9281.	1.6	18
17	Systemic mechanisms and effects of ionizing radiation: A new â¿¿oldâ¿¿ paradigm of how the bystanders and distant can become the players. Seminars in Cancer Biology, 2016, 37-38, 77-95.	4.3	96
18	MCNP6 model of the University of Washington clinical neutron therapy system (CNTS). Physics in Medicine and Biology, 2016, 61, 937-957.	1.6	10

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19	A feasibility study: Selection of a personalized radiotherapy fractionation schedule using spatiotemporal optimization. Medical Physics, 2015, 42, 6671-6678.	1.6	17
20	Reducing the Cost of Proton Radiation Therapy: The Feasibility of a Streamlined Treatment Technique for Prostate Cancer. Cancers, 2015, 7, 688-705.	1.7	6
21	Extension of TOPAS for the simulation of proton radiation effects considering molecular and cellular endpoints. Physics in Medicine and Biology, 2015, 60, 5053-5070.	1.6	56
22	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
23	Neutron Exposures in Human Cells: Bystander Effect and Relative Biological Effectiveness. PLoS ONE, 2014, 9, e98947.	1.1	32
24	Induction and Repair of Clustered DNA Lesions: What Do We Know So Far?. Radiation Research, 2013, 180, 100-109.	0.7	239
25	Toward Patient-Specific, Biologically Optimized Radiation Therapy Plans for the Treatment of Glioblastoma. PLoS ONE, 2013, 8, e79115.	1.1	101
26	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.	0.4	113
27	Investigation of effective decision criteria for multiobjective optimization in IMRT. Medical Physics, 2011, 38, 2964-2974.	1.6	17
28	Effects of Radiation Quality and Oxygen on Clustered DNA Lesions and Cell Death. Radiation Research, 2011, 176, 587-602.	0.7	171
29	Mechanistic Modeling of the Relative Biological Effectiveness of Photon, Proton, and Carbon Ion Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2010, 78, S48-S49.	0.4	1
30	Towards Temporal Optimization of Radiation Fractionation: The Kinetic Effects of Tumor Hypoxia, DNA Damage Repair, and Tumor Cell Repopulation. International Journal of Radiation Oncology Biology Physics, 2009, 75, S615-S616.	0.4	0
31	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
32	In vitrodetermination of radiation sensitivity parameters for DU-145 prostate cancer cells. International Journal of Radiation Biology, 2008, 84, 515-522.	1.0	11
33	Designing equivalent treatment regimens for prostate radiotherapy based on equivalent uniform dose. British Journal of Radiology, 2008, 81, 59-68.	1.0	9
34	A Monte-Carlo Derived Dual-Source Model for Helical Tomotherapy Treatment Planning. Technology in Cancer Research and Treatment, 2008, 7, 141-147.	0.8	0
35	Effective Target Size for the Induction of Bystander Effects in Medium Transfer Experiments. Radiation Research, 2007, 168, 627-630.	0.7	23
36	Induction and Processing of Oxidative Clustered DNA Lesions in56Fe-Ion-Irradiated Human Monocytes. Radiation Research, 2007, 168, 87-97.	0.7	55

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37	BGRT: Biologically guided radiation therapyâ€"The future is fast approaching!. Medical Physics, 2007, 34, 3739-3751.	1.6	57
38	Neutron scattered dose equivalent to a fetus from proton radiotherapy of the mother. Medical Physics, 2006, 33, 2479-2490.	1.6	96
39	On the biophysical interpretation of lethal DNA lesions induced by ionising radiation. Radiation Protection Dosimetry, 2006, 122, 169-172.	0.4	22
40	Effects of oxygen on intrinsic radiation sensitivity: A test of the relationship between aerobic and	1.6	117
41	Modeling prostate cancer: In regards to Nahum et al. (Int J Radiat Oncol Biol Phys 2003;57:391â€"401). International Journal of Radiation Oncology Biology Physics, 2005, 61, 309-310.	0.4	17
42	Retrospective analysis of double-strand break rejoining data collected using warm-lysis PFGE protocols. International Journal of Radiation Biology, 2005, 81, 421-428.	1.0	7
43	Comparison ofin vitroandin vivoÂ/Â ratios for prostate cancer. Physics in Medicine and Biology, 2004, 49, 4477-4491.	1.6	95
44	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.	0.4	192
45	Dose escalation in permanent brachytherapy for prostate cancer: dosimetric and biological considerations. Physics in Medicine and Biology, 2003, 48, 2753-2765.	1.6	44
46	Equivalence of the linearÂquadratic and two-lesion kinetic models. Physics in Medicine and Biology, 2002, 47, 3197-3209.	1.6	29
47	Fourth Intercomparison of Personal Dosemeters used in US Department of Energy Accelerator Facilities. Radiation Protection Dosimetry, 2000, 87, 77-86.	0.4	6
48	An Extended Tabulation of Effective Dose Equivalent from Neutrons Incident on a Male Anthropomorphic Phantom. Health Physics, 1993, 65, 405-413.	0.3	8