

Robert D Stewart

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | 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 |
| 3 | Mechanistic Modeling of the Relative Biological Effectiveness of Boron Neutron Capture Therapy. <i>Cells</i> , 2020, 9, 2302. | 4.1 | 10 |
| 4 | Volume effects in the TCP for hypoxic and oxygenated tumors. <i>Medical Physics</i> , 2020, 47, 4626-4633. | 3.0 | 4 |
| 5 | 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 |
| 6 | Scattering kernels for fast neutron therapy treatment planning. <i>Physics in Medicine and Biology</i> , 2020, 65, 165009. | 3.0 | 3 |
| 7 | A new approach to modeling the microdosimetry of proton therapy beams. <i>Medical Physics</i> , 2020, 47, 3184-3190. | 3.0 | 1 |
| 8 | Report of the AAPM TG-256 on the relative biological effectiveness of proton beams in radiation therapy. <i>Medical Physics</i> , 2019, 46, e53-e78. | 3.0 | 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. <i>Radiation Oncology</i> , 2019, 14, 243. | 2.7 | 10 |
| 11 | Dosimetric characteristics of the University of Washington Clinical Neutron Therapy System. <i>Physics in Medicine and Biology</i> , 2018, 63, 105008. | 3.0 | 17 |
| 12 | A comparison of mechanism-inspired models for particle relative biological effectiveness (RBE). <i>Medical Physics</i> , 2018, 45, e925-e952. | 3.0 | 69 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Biological and dosimetric characterisation of spatially fractionated proton minibeam. <i>Physics in Medicine and Biology</i> , 2017, 62, 9260-9281. | 3.0 | 18 |
| 17 | Systemic mechanisms and effects of ionizing radiation: A new paradigm of how the bystanders and distant can become the players. <i>Seminars in Cancer Biology</i> , 2016, 37-38, 77-95. | 9.6 | 96 |
| 18 | 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 |

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|----|---|-----|-----------|
| 19 | A feasibility study: Selection of a personalized radiotherapy fractionation schedule using spatiotemporal optimization. <i>Medical Physics</i> , 2015, 42, 6671-6678. | 3.0 | 17 |
| 20 | 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 |
| 21 | Extension of TOPAS for the simulation of proton radiation effects considering molecular and cellular endpoints. <i>Physics in Medicine and Biology</i> , 2015, 60, 5053-5070. | 3.0 | 56 |
| 22 | 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 |
| 23 | Neutron Exposures in Human Cells: Bystander Effect and Relative Biological Effectiveness. <i>PLoS ONE</i> , 2014, 9, e98947. | 2.5 | 32 |
| 24 | Induction and Repair of Clustered DNA Lesions: What Do We Know So Far?. <i>Radiation Research</i> , 2013, 180, 100-109. | 1.5 | 239 |
| 25 | Toward Patient-Specific, Biologically Optimized Radiation Therapy Plans for the Treatment of Glioblastoma. <i>PLoS ONE</i> , 2013, 8, e79115. | 2.5 | 101 |
| 26 | A Mechanism-Based Approach to Predict the Relative Biological Effectiveness of Protons and Carbon Ions in Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 83, 442-450. | 0.8 | 113 |
| 27 | Investigation of effective decision criteria for multiobjective optimization in IMRT. <i>Medical Physics</i> , 2011, 38, 2964-2974. | 3.0 | 17 |
| 28 | Effects of Radiation Quality and Oxygen on Clustered DNA Lesions and Cell Death. <i>Radiation Research</i> , 2011, 176, 587-602. | 1.5 | 171 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | Effective Target Size for the Induction of Bystander Effects in Medium Transfer Experiments. <i>Radiation Research</i> , 2007, 168, 627-630. | 1.5 | 23 |
| 36 | Induction and Processing of Oxidative Clustered DNA Lesions in ⁵⁶ Fe-Ion-Irradiated Human Monocytes. <i>Radiation Research</i> , 2007, 168, 87-97. | 1.5 | 55 |

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|----|---|-----|-----------|
| 37 | BGRT: Biologically guided radiation therapyâ€”The future is fast approaching!. Medical Physics, 2007, 34, 3739-3751. | 3.0 | 57 |
| 38 | Neutron scattered dose equivalent to a fetus from proton radiotherapy of the mother. Medical Physics, 2006, 33, 2479-2490. | 3.0 | 96 |
| 39 | On the biophysical interpretation of lethal DNA lesions induced by ionising radiation. Radiation Protection Dosimetry, 2006, 122, 169-172. | 0.8 | 22 |
| 40 | Effects of oxygen on intrinsic radiation sensitivity: A test of the relationship between aerobic and | 3.0 | 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. | 0.8 | 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. | 1.8 | 7 |
| 43 | Comparison of in vitro and in vivo α/β ratios for prostate cancer. Physics in Medicine and Biology, 2004, 49, 4477-4491. | 3.0 | 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. | 0.8 | 192 |
| 45 | Dose escalation in permanent brachytherapy for prostate cancer: dosimetric and biological considerations. Physics in Medicine and Biology, 2003, 48, 2753-2765. | 3.0 | 44 |
| 46 | Equivalence of the linear-quadratic and two-lesion kinetic models. Physics in Medicine and Biology, 2002, 47, 3197-3209. | 3.0 | 29 |
| 47 | Fourth Intercomparison of Personal Dosimeters used in US Department of Energy Accelerator Facilities. Radiation Protection Dosimetry, 2000, 87, 77-86. | 0.8 | 6 |
| 48 | An Extended Tabulation of Effective Dose Equivalent from Neutrons Incident on a Male Anthropomorphic Phantom. Health Physics, 1993, 65, 405-413. | 0.5 | 8 |