

Vadim P Moskvin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Pre- and Posttherapy Risk Factors for Vasculopathy in Pediatric Patients With Craniopharyngioma Treated With Surgery and Proton Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 113, 152-160.	0.8	6
2	Accuracy of stopping power ratio calculation and experimental validation of proton range with dual-layer computed tomography. <i>Acta Oncologica</i> , 2022, 61, 864-868.	1.8	0
3	Proton therapy delivery method affects dose-averaged linear energy transfer in patients. <i>Physics in Medicine and Biology</i> , 2021, 66, 074003.	3.0	3
4	Monte Carlo framework for commissioning a synchrotron-based discrete spot scanning proton beam system and treatment plan verification. <i>Biomedical Physics and Engineering Express</i> , 2021, 7, 045020.	1.2	3
5	Automation of Monte Carlo-based treatment plan verification for proton therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 131-138.	1.9	8
6	Technical Note: Design and characterization of a large diameter parallel plate ionization chamber for accurate integral depth dose measurements with proton beams. <i>Medical Physics</i> , 2020, 47, 3214-3224.	3.0	5
7	Dose perturbation caused by metallic port in breast tissue expander in proton beam therapy. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 065037.	1.2	0
8	Implementation of a simplified analytical random walk model dose calculation algorithm with nuclear interaction for treatment planning of scanning-beam proton therapy. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 035023.	1.2	2
9	Development, commissioning, and evaluation of a new intensity modulated minibeam proton therapy system. <i>Medical Physics</i> , 2018, 45, 4227-4237.	3.0	22
10	Challenges of dosimetry of ultra-short pulsed very high energy electron beams. <i>Physica Medica</i> , 2017, 42, 327-331.	0.7	27
11	A Feasibility Study on Proton Range-Based Registration for Patient Positioning in Proton Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, S170.	0.8	0
12	Dose and Dose-Weighted Linear Energy Transfer Brainstem Volumetric Thresholds Associated with MR Signal Changes in Pediatric Patients with Ependymoma Treated with Proton Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, S229-S230.	0.8	1
13	A Comparison Study Between Spot Scanning Intensity Modulated Proton and Photon Grid Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, E672.	0.8	0
14	Optimization of GATE and PHITS Monte Carlo code parameters for spot scanning proton beam based on simulation with FLUKA general-purpose code. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 367, 14-25.	1.4	8
15	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
16	SU-F-T-156: Monte Carlo Simulation Using TOPAS for Synchrotron Based Proton Discrete Spot Scanning System. <i>Medical Physics</i> , 2016, 43, 3497-3498.	3.0	4
17	MO-FG-CAMPUS-TeP3-05: Limitations of the Dose Weighted LET Concept for Intensity Modulated Proton Therapy in the Distal Falloff Region and Beyond. <i>Medical Physics</i> , 2016, 43, 3728-3728.	3.0	1
18	SU-F-T-144: Analytical Closed Form Approximation for Carbon Ion Bragg Curves in Water. <i>Medical Physics</i> , 2016, 43, 3495-3495.	3.0	0

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19	MO-FG-CAMPUS-TeP3-02: Benchmarks of a Proton Relative Biological Effectiveness (RBE) Model for DNA Double Strand Break (DSB) Induction in the FLUKA, MCNP, TOPAS, and RayStationâ„ Treatment Planning System. Medical Physics, 2016, 43, 3727-3728.	3.0	0
20	Feasibility of RACT for 3D dose measurement and range verification in a water phantom. Medical Physics, 2015, 42, 937-946.	3.0	26
21	Proton Therapy Facility Planning From a Clinical and Operational Model. Technology in Cancer Research and Treatment, 2015, 14, 635-641.	1.9	4
22	Effect of Scanning Beam for Superficial Dose in Proton Therapy. Technology in Cancer Research and Treatment, 2015, 14, 643-652.	1.9	6
23	Acute skin toxicity associated with proton beam therapy in spine and brain patients. Journal of Radiation Oncology, 2014, 3, 195-203.	0.7	4
24	Dosimetry of very high energy electrons (VHEE) for radiotherapy applications: using radiochromic film measurements and Monte Carlo simulations. Physics in Medicine and Biology, 2014, 59, 5811-5829.	3.0	39
25	Optimization of GATE and PHITS Monte Carlo code parameters for uniform scanning proton beam based on simulation with FLUKA general-purpose code. Nuclear Instruments & Methods in Physics Research B, 2014, 336, 45-54.	1.4	14
26	SU-E-CAMPUS-T-02: Exploring Radiation Acoustics CT Dosimeter Design Aspects for Proton Therapy. Medical Physics, 2014, 41, 382-382.	3.0	3
27	SU-E-T-254: Optimization of GATE and PHITS Monte Carlo Code Parameters for Uniform Scanning Proton Beam Based On Simulation with FLUKA General-Purpose Code. Medical Physics, 2014, 41, 282-282.	3.0	0
28	TH-C-144-01: BEST IN PHYSICS (THERAPY) - Use of Radiation-Induced Ultrasound to Image Proton Dosimetry. Medical Physics, 2013, 40, 546-546.	3.0	5
29	SU-E-T-483: Factors Contributing to the Increased Proton RBE at the Distal Edge of Bragg Peak. Medical Physics, 2013, 40, 317-317.	3.0	0
30	SU-E-T-723: An Effective Atomic Number of the Compounds in Proton Beam Therapy. Medical Physics, 2013, 40, 372-372.	3.0	0
31	MO-F-108-08: A Revolving Collimator for Proton Stereotactic Radiosurgery (pSRS). Medical Physics, 2013, 40, 408-408.	3.0	0
32	Variability of Physics Education in Radiation Oncology Medical Residency Programs. Journal of the American College of Radiology, 2012, 9, 835-838.e1.	1.8	2
33	A GEM-based dose imaging detector with optical readout for proton radiotherapy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 694, 271-279.	1.6	10
34	A semi-empirical model for the therapeutic range shift estimation caused by inhomogeneities in proton beam therapy. Journal of Applied Clinical Medical Physics, 2012, 13, 3-12.	1.9	10
35	Comment on "Comparison of secondary neutron dose in proton therapy resulting from the use of a tungsten alloy MLC or a brass collimator system" [Med. Phys. 38(11), 6248-6256 (2011)]. Medical Physics, 2012, 39, 2303-2305.	3.0	5
36	Pitfalls of tungsten multileaf collimator in proton beam therapy. Medical Physics, 2011, 38, 6395-6406.	3.0	16

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37	Range shift and dose perturbation with high-density materials in proton beam therapy. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2685-2692.	1.4	10
38	SU-E-T-10: A Computational Model for the Estimation of Biological Dose in a Clinical Proton Beam. Medical Physics, 2011, 38, 3487-3487.	3.0	0
39	TU-C-BRB-03: Hazards of a Tungsten Multi-Leaf Collimator in Proton Beam Therapy. Medical Physics, 2011, 38, 3753-3753.	3.0	0
40	Design aspects for Very High Energy Electron (150 to 250 MeV) acceleration for use in radiation therapy: Beam shaping, electromagnetic scanning. , 2010, , .		3
41	PENELOPE Monte Carlo engine for treatment planning in radiation therapy with Very High Energy Electrons (VHEE) of 150–250 MeV. , 2010, , .		10
42	SU-GG-T-385: Dose Perturbation by a Steel Magnetic Injection Port in a Breast Tissue Expander in Proton Radiotherapy: A Monte Carlo Study. Medical Physics, 2010, 37, 3274-3274.	3.0	0
43	SUâ€GGâ€Tâ€396: Secondary Neutron Production by a Scanning Proton Beam. Medical Physics, 2010, 37, 3277-3277.	3.0	0
44	SU-GG-T-93: Investigation of Various Phantom Materials for Very High Energy Electron (VHEE) Beams 150-250 MeV: A Monte Carlo Study. Medical Physics, 2010, 37, 3205-3205.	3.0	0
45	Analysis of Treatment Planning Time Among Systems and Planners for Intensity-Modulated Radiation Therapy. Journal of the American College of Radiology, 2009, 6, 514-517.	1.8	57
46	SU-FF-T-328: Dose Perturbation and Range Shift with High-Z Medium in Proton Beam. Medical Physics, 2009, 36, 2597-2597.	3.0	0
47	Lung Tumor Treatment with Very High Energy Electron Beams of 150-250 Mev as Compared to Conventional Megavoltage Photon Beams. International Journal of Radiation Oncology Biology Physics, 2008, 72, S612.	0.8	10
48	Laser-plasma generated very high energy electrons in radiation therapy of the prostate. Proceedings of SPIE, 2008, , .	0.8	19
49	SU-GG-T-547: Optimization and Evaluation of Accuracy of Harvesting Backscattering Electrons Technique. Medical Physics, 2008, 35, 2850-2850.	3.0	0
50	TH-D-AUD B-06: Variability of Low-Z Inhomogeneity Correction in IMRT/SBRT: A Multi-Institutional Collaborative Study. Medical Physics, 2008, 35, 2985-2985.	3.0	0
51	Evaluation of underdosage in the external photon beam radiotherapy of glottic carcinoma: Monte Carlo study. Radiotherapy and Oncology, 2006, 78, 159-164.	0.6	11
52	Lung Cancer Radiation Therapy: Monte Carlo Investigation of â€Under Doseâ€by High Energy Photons. Technology in Cancer Research and Treatment, 2004, 3, 289-294.	1.9	9
53	Monte Carlo simulation of the Leksell Gamma Knifeâ€™: II. Effects of heterogeneous versus homogeneous media for stereotactic radiosurgery. Physics in Medicine and Biology, 2004, 49, 4879-4895.	3.0	59
54	Contamination dose from photoneutron processes in bodily tissues during therapeutic radiation delivery. Medical Physics, 2003, 30, 2849-2854.	3.0	20

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55	Use of the Leksell Gamma Knife for Localized Small Field Lens Irradiation in Rodents. <i>Technology in Cancer Research and Treatment</i> , 2003, 2, 449-454.	1.9	37
56	Very High Energy Electrons (50 – 250 MeV) and Radiation Therapy. <i>Technology in Cancer Research and Treatment</i> , 2002, 1, 105-110.	1.9	36
57	Method of trajectory rotation as a Monte Carlo variance reduction technique. <i>Monte Carlo Methods and Applications</i> , 2002, 8, .	0.8	1
58	Optimization of intensity-modulated very high energy (50–250 MeV) electron therapy. <i>Physics in Medicine and Biology</i> , 2002, 47, 1285-1301.	3.0	39
59	Monte Carlo simulation of the Leksell Gamma Knife [®] : I. Source modelling and calculations in homogeneous media. <i>Physics in Medicine and Biology</i> , 2002, 47, 1995-2011.	3.0	46
60	Dose perturbations at high-Z interfaces in kilovoltage photon beams: comparison with Monte Carlo simulations and measurements. <i>Radiation Physics and Chemistry</i> , 2002, 64, 173-179.	2.8	22
61	Extrapolated ranges of electrons determined from transmission and projected-range straggling curves. <i>Radiation Physics and Chemistry</i> , 2002, 64, 161-167.	2.8	12
62	Interface dosimetry: measurements and Monte Carlo simulations of low-energy photon beams. <i>Radiation Physics and Chemistry</i> , 2001, 61, 593-595.	2.8	14
63	150-250 MeV electron beams in radiation therapy. <i>Physics in Medicine and Biology</i> , 2000, 45, 1781-1805.	3.0	107
64	Average depths of electron penetration. II. Angular dependence and use to evaluate secondary-electron yield by photons. <i>IEEE Transactions on Nuclear Science</i> , 1999, 46, 910-914.	2.0	2
65	A study of primary electron charge deposition near the surface of a target by Monte Carlo simulation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998, 134, 1-12.	1.4	4
66	Average depths of electron penetration: use as characteristic depths of exposure. <i>IEEE Transactions on Nuclear Science</i> , 1998, 45, 626-631.	2.0	23
67	Absorption of fast electrons in thin slabs. <i>IEEE Transactions on Nuclear Science</i> , 1997, 44, 1070-1075.	2.0	1
68	Charge deposition distributions in targets irradiated by electrons. <i>IEEE Transactions on Nuclear Science</i> , 1997, 44, 1065-1069.	2.0	3
69	Monte Carlo calculation of charge-deposition depth profile in slabs irradiated by electrons. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 108, 276-281.	1.4	7