Oleg N Vassiliev

List of Publications by Year
in descending order

45	1,744	394421	276875
papers	citations	19 h-index	41 g-index

47	47	47	1056
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Validation of a new grid-based Boltzmann equation solver for dose calculation in radiotherapy with photon beams. Physics in Medicine and Biology, 2010, 55, 581-598.	3.0	266
2	Dosimetric properties of photon beams from a flattening filter free clinical accelerator. Physics in Medicine and Biology, 2006, 51, 1907-1917.	3.0	196
3	Properties of unflattened photon beams shaped by a multileaf collimator. Medical Physics, 2006, 33, 1738-1746.	3.0	128
4	Monte Carlo study of photon fields from a flattening filter-free clinical accelerator. Medical Physics, 2006, 33, 820-827.	3.0	99
5	Out-of-field photon dose following removal of the flattening filter from a medical accelerator. Physics in Medicine and Biology, 2010, 55, 2155-2166.	3.0	99
6	A Monte Carlo model for calculating out-of-field dose from a Varian 6MV beam. Medical Physics, 2006, 33, 4405-4413.	3.0	93
7	Stereotactic radiotherapy for lung cancer using a flattening filter free Clinac. Journal of Applied Clinical Medical Physics, 2009, 10, 14-21.	1.9	87
8	A Monte Carlo model for outâ€ofâ€field dose calculation from highâ€energy photon therapy. Medical Physics, 2007, 34, 3489-3499.	3.0	81
9	Reduced Neutron Production Through Use of a Flattening-Filterâ€“Free Accelerator. International Journal of Radiation Oncology Biology Physics, 2007, 68, 1260-1264.	0.8	73
10	Monte Carlo investigation of collimator scatter of proton-therapy beams produced using the passive scattering method. Physics in Medicine and Biology, 2008, 53, 487-504.	3.0	70
11	Reference photon dosimetry data and reference phase space data for the 6MV photon beam from Varian Clinac 2100 series linear accelerators. Medical Physics, 2004, 32, 137-148.	3.0	61
12	Feasibility of a Multigroup Deterministic Solution Method for Three-Dimensional Radiotherapy Dose Calculations. International Journal of Radiation Oncology Biology Physics, 2008, 72, 220-227.	0.8	56
13	Treatment-Planning Study of Prostate Cancer Intensity-Modulated Radiotherapy With a Varian Clinac Operated Without a Flattening Filter. International Journal of Radiation Oncology Biology Physics, 2007, 68, 1567-1571.	0.8	50
14	Energy spectra, sources, and shielding considerations for neutrons generated by a flattening filterâ€free Clinac. Medical Physics, 2008, 35, 1906-1911.	3.0	49
15	AAPM Task Group 329: Reference dose specification for dose calculations: Doseâ€toâ€water or doseâ€toâ€muscle?. Medical Physics, 2020, 47, e52-e64.	3.0	43
16	Development and commissioning of a multileaf collimator model in Monte Carlo dose calculations for intensity-modulated radiation therapy. Medical Physics, 2006, 33, 770-781.	3.0	37
17	Monte Carlo calculations of the absorbed dose and energy dependence of plastic scintillators. Medical Physics, 2005, 32, 1265-1269.	3.0	31
18	Treatment vault shielding for a flattening filter-free medical linear accelerator. Physics in Medicine and Biology, 2009, 54, 1265-1273.	3.0	26

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19	Radial dose distributions from protons of therapeutic energies calculated with Geant4-DNA. Physics in Medicine and Biology, 2014, 59, 3657-3668.	3.0	20
20	Monte Carlo Methods for Radiation Transport. Biological and Medical Physics Series, 2017, , .	0.4	20
21	Formulation of the Multi-Hit Model With a Non-Poisson Distribution of Hits. International Journal of Radiation Oncology Biology Physics, 2012, 83, 1311-1316.	0.8	19
22	MCNPX simulation of a multileaf collimator. Medical Physics, 2006, 33, 402-404.	3.0	16
23	Dosimetric verification for intensity-modulated radiotherapy of thoracic cancers using experimental and Monte Carlo approaches. International Journal of Radiation Oncology Biology Physics, 2006, 66, 939-948.	0.8	15
24	Electron slowing-down spectra in water for electron and photon sources calculated with the Geant4-DNA code. Physics in Medicine and Biology, 2012, 57, 1087-1094.	3.0	14
25	Radial dose distributions from carbon ions of therapeutic energies calculated with Geant4-DNA. Physics in Medicine and Biology, 2017, 62, N219-N227.	3.0	14
26	Dosimetric impact of fiducial markers in patients undergoing photon beam radiation therapy. Physica Medica, 2012, 28, 240-244.	0.7	11
27	Radiotherapy of lung cancers: FFF beams improve dose coverage at tumor periphery compromised by electronic disequilibrium. Physics in Medicine and Biology, 2018, 63, 195007.	3.0	11
28	Comparison between an event-by-event Monte Carlo code, NOREC, and ETRAN for electron scaled point kernels between 20ÂkeV and 1ÂMeV. Radiation and Environmental Biophysics, 2007, 46, 77-83.	1.4	10
29	A new formalism for modelling parametersÎ±andÎ²of the linearâ€“quadratic model of cell survival for hadron therapy. Physics in Medicine and Biology, 2017, 62, 8041-8059.	3.0	9
30	Systematic microdosimetric data for protons of therapeutic energies calculated with Geant4-DNA. Physics in Medicine and Biology, 2019, 64, 215018.	3.0	8
31	Displacement of periurethral stranded seeds and its dosimetric consequences in prostate brachytherapy. Brachytherapy, 2011, 10, 401-408.	0.5	7
32	Reducing the Cost of Proton Radiation Therapy: The Feasibility of a Streamlined Treatment Technique for Prostate Cancer. Cancers, 2015, 7, 688-705.	3.7	6
33	Using FFF beams to improve the therapeutic ratio of lung SBRT. Journal of Radiotherapy in Practice, 2021, 20, 419-425.	0.5	5
34	Average stopping powers for electron and photon sources for radiobiological modeling and microdosimetric applications. Physics in Medicine and Biology, 2018, 63, 055007.	3.0	3
35	A simple model for calculating relative biological effectiveness of X-rays and gamma radiation in cell survival. British Journal of Radiology, 2020, 93, 20190949.	2.2	3
36	Microdosimetric characterisation of radiation fields for modelling tissue response in radiotherapy. International Journal of Cancer Therapy and Oncology, 2014, 2, 020116.	0.2	3

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37	Microdosimetry. Elements of Stochastic Transport Theory. Biological and Medical Physics Series, 2017, , 195-223.	0.4	1
38	Monte Carlo evaluation of target dose coverage in lung stereotactic body radiation therapy with flattening filter-free beams. Journal of Radiotherapy in Practice, 2022, 21, 81-87.	0.5	1
39	Impact of intra-fractional motion on dose distributions in lung IMRT. Journal of Radiotherapy in Practice, 2021, 20, 12-16.	0.5	1
40	Grid Based Boltzmann Equation Solvers. Biological and Medical Physics Series, 2017, , 225-250.	0.4	1
41	Preliminary Results from Commissioning the Heterogeneity-Based Treatment Planning System Brachyvision (BV-Acuros). Brachytherapy, 2010, 9, S34.	0.5	0
42	Sci-Thur PM - Colourful Interactions: Highlights 02: A deterministic solution to the first order linear Boltzmann transport equation including magnetic fields. Medical Physics, 2016, 43, 4931-4931.	3.0	0
43	Sampling Techniques. Biological and Medical Physics Series, 2017, , 15-48.	0.4	0
44	Transport of Charged Particles. Biological and Medical Physics Series, 2017, , 141-193.	0.4	0
45	On calculation of the average linear energy transfer for radiobiological modelling. Biomedical Physics and Engineering Express, 2021, 7, 015001.	1.2	0