

Oleg N Vassiliev

List of Publications by Year in descending order

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45
papers

1,744
citations

448610

19
h-index

312153

41
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47
docs citations

47
times ranked

1119
citing authors

#	ARTICLE	IF	CITATIONS
1	Monte Carlo evaluation of target dose coverage in lung stereotactic body radiation therapy with flattening filter-free beams. <i>Journal of Radiotherapy in Practice</i> , 2022, 21, 81-87.	0.2	1
2	Using FFF beams to improve the therapeutic ratio of lung SBRT. <i>Journal of Radiotherapy in Practice</i> , 2021, 20, 419-425.	0.2	5
3	Impact of intra-fractional motion on dose distributions in lung IMRT. <i>Journal of Radiotherapy in Practice</i> , 2021, 20, 12-16.	0.2	1
4	On calculation of the average linear energy transfer for radiobiological modelling. <i>Biomedical Physics and Engineering Express</i> , 2021, 7, 015001.	0.6	0
5	AAPM Task Group 329: Reference dose specification for dose calculations: Dose to water or dose to muscle?. <i>Medical Physics</i> , 2020, 47, e52-e64.	1.6	43
6	A simple model for calculating relative biological effectiveness of X-rays and gamma radiation in cell survival. <i>British Journal of Radiology</i> , 2020, 93, 20190949.	1.0	3
7	Systematic microdosimetric data for protons of therapeutic energies calculated with Geant4-DNA. <i>Physics in Medicine and Biology</i> , 2019, 64, 215018.	1.6	8
8	Average stopping powers for electron and photon sources for radiobiological modeling and microdosimetric applications. <i>Physics in Medicine and Biology</i> , 2018, 63, 055007.	1.6	3
9	Radiotherapy of lung cancers: FFF beams improve dose coverage at tumor periphery compromised by electronic disequilibrium. <i>Physics in Medicine and Biology</i> , 2018, 63, 195007.	1.6	11
10	Radial dose distributions from carbon ions of therapeutic energies calculated with Geant4-DNA. <i>Physics in Medicine and Biology</i> , 2017, 62, N219-N227.	1.6	14
11	A new formalism for modelling parameters α and β of the linear-quadratic model of cell survival for hadron therapy. <i>Physics in Medicine and Biology</i> , 2017, 62, 8041-8059.	1.6	9
12	Monte Carlo Methods for Radiation Transport. <i>Biological and Medical Physics Series</i> , 2017, , .	0.3	20
13	Microdosimetry. Elements of Stochastic Transport Theory. <i>Biological and Medical Physics Series</i> , 2017, , 195-223.	0.3	1
14	Grid Based Boltzmann Equation Solvers. <i>Biological and Medical Physics Series</i> , 2017, , 225-250.	0.3	1
15	Sampling Techniques. <i>Biological and Medical Physics Series</i> , 2017, , 15-48.	0.3	0
16	Transport of Charged Particles. <i>Biological and Medical Physics Series</i> , 2017, , 141-193.	0.3	0
17	Sci-Thur PM - Colourful Interactions: Highlights 02: A deterministic solution to the first order linear Boltzmann transport equation including magnetic fields. <i>Medical Physics</i> , 2016, 43, 4931-4931.	1.6	0
18	Reducing the Cost of Proton Radiation Therapy: The Feasibility of a Streamlined Treatment Technique for Prostate Cancer. <i>Cancers</i> , 2015, 7, 688-705.	1.7	6

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19	Radial dose distributions from protons of therapeutic energies calculated with Geant4-DNA. <i>Physics in Medicine and Biology</i> , 2014, 59, 3657-3668.	1.6	20
20	Microdosimetric characterisation of radiation fields for modelling tissue response in radiotherapy. <i>International Journal of Cancer Therapy and Oncology</i> , 2014, 2, 020116.	0.2	3
21	Formulation of the Multi-Hit Model With a Non-Poisson Distribution of Hits. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 83, 1311-1316.	0.4	19
22	Dosimetric impact of fiducial markers in patients undergoing photon beam radiation therapy. <i>Physica Medica</i> , 2012, 28, 240-244.	0.4	11
23	Electron slowing-down spectra in water for electron and photon sources calculated with the Geant4-DNA code. <i>Physics in Medicine and Biology</i> , 2012, 57, 1087-1094.	1.6	14
24	Displacement of periurethral stranded seeds and its dosimetric consequences in prostate brachytherapy. <i>Brachytherapy</i> , 2011, 10, 401-408.	0.2	7
25	Preliminary Results from Commissioning the Heterogeneity-Based Treatment Planning System Brachyvision (BV-Acuris). <i>Brachytherapy</i> , 2010, 9, S34.	0.2	0
26	Out-of-field photon dose following removal of the flattening filter from a medical accelerator. <i>Physics in Medicine and Biology</i> , 2010, 55, 2155-2166.	1.6	99
27	Validation of a new grid-based Boltzmann equation solver for dose calculation in radiotherapy with photon beams. <i>Physics in Medicine and Biology</i> , 2010, 55, 581-598.	1.6	266
28	Treatment vault shielding for a flattening filter-free medical linear accelerator. <i>Physics in Medicine and Biology</i> , 2009, 54, 1265-1273.	1.6	26
29	Stereotactic radiotherapy for lung cancer using a flattening filter free Clinac. <i>Journal of Applied Clinical Medical Physics</i> , 2009, 10, 14-21.	0.8	87
30	Feasibility of a Multigroup Deterministic Solution Method for Three-Dimensional Radiotherapy Dose Calculations. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 72, 220-227.	0.4	56
31	Energy spectra, sources, and shielding considerations for neutrons generated by a flattening filter-free Clinac. <i>Medical Physics</i> , 2008, 35, 1906-1911.	1.6	49
32	Monte Carlo investigation of collimator scatter of proton-therapy beams produced using the passive scattering method. <i>Physics in Medicine and Biology</i> , 2008, 53, 487-504.	1.6	70
33	A Monte Carlo model for out-of-field dose calculation from high-energy photon therapy. <i>Medical Physics</i> , 2007, 34, 3489-3499.	1.6	81
34	Reduced Neutron Production Through Use of a Flattening-Filter-Free Accelerator. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 68, 1260-1264.	0.4	73
35	Treatment-Planning Study of Prostate Cancer Intensity-Modulated Radiotherapy With a Varian Clinac Operated Without a Flattening Filter. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 68, 1567-1571.	0.4	50
36	Comparison between an event-by-event Monte Carlo code, NOREC, and ETRAN for electron scaled point kernels between 20 keV and 1 MeV. <i>Radiation and Environmental Biophysics</i> , 2007, 46, 77-83.	0.6	10

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37	A Monte Carlo model for calculating out-of-field dose from a Varian 6MV beam. Medical Physics, 2006, 33, 4405-4413.	1.6	93
38	Monte Carlo study of photon fields from a flattening filter-free clinical accelerator. Medical Physics, 2006, 33, 820-827.	1.6	99
39	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.	0.4	15
40	MCPX simulation of a multileaf collimator. Medical Physics, 2006, 33, 402-404.	1.6	16
41	Development and commissioning of a multileaf collimator model in Monte Carlo dose calculations for intensity-modulated radiation therapy. Medical Physics, 2006, 33, 770-781.	1.6	37
42	Properties of unflattened photon beams shaped by a multileaf collimator. Medical Physics, 2006, 33, 1738-1746.	1.6	128
43	Dosimetric properties of photon beams from a flattening filter free clinical accelerator. Physics in Medicine and Biology, 2006, 51, 1907-1917.	1.6	196
44	Monte Carlo calculations of the absorbed dose and energy dependence of plastic scintillators. Medical Physics, 2005, 32, 1265-1269.	1.6	31
45	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.	1.6	61