

# Pavel Stavrev

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

402  
citations

840119

11  
h-index

752256

20  
g-index

27  
all docs

27  
docs citations

27  
times ranked

442  
citing authors

#	ARTICLE	IF	CITATIONS
1	A TCP-NTCP estimation module using DVHs and known radiobiological models and parameter sets. <i>Journal of Applied Clinical Medical Physics</i> , 2004, 5, 50-63.	0.8	95
2	A TCP-NTCP estimation module using DVHs and known radiobiological models and parameter sets. <i>Journal of Applied Clinical Medical Physics</i> , 2004, 5, 50-63.	0.8	43
3	Volumetric-modulated arc stereotactic body radiotherapy for prostate cancer: dosimetric impact of an increased near-maximum target dose and of a rectal spacer. <i>British Journal of Radiology</i> , 2015, 88, 20140736.	1.0	38
4	Breast radiotherapy with inclusion of internal mammary nodes: a comparison of techniques with three-dimensional planning. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 55, 633-644.	0.4	34
5	Optimal dose and fraction number in SBRT of lung tumours: A radiobiological analysis. <i>Physica Medica</i> , 2017, 44, 188-195.	0.4	29
6	Phenomenologic model describing flow reduction for parotid gland irradiation with intensity-modulated radiotherapy: Evidence of significant recovery effect. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 60, 178-185.	0.4	21
7	Fundamental form of a population TCP model in the limit of large heterogeneity. <i>Medical Physics</i> , 2006, 33, 1634-1642.	1.6	21
8	Adaptive SBRT by 1.5ÅT MR-linac for prostate cancer: On the accuracy of dose delivery in view of the prolonged session time. <i>Physica Medica</i> , 2020, 80, 34-41.	0.4	19
9	Automated Planning for Prostate Stereotactic Body Radiation Therapy on the 1.5 T MR-Linac. <i>Advances in Radiation Oncology</i> , 2022, 7, 100865.	0.6	16
10	Applying a Hypoxia-Incorporating TCP Model to Experimental Data on Rat Sarcoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 83, 1603-1608.	0.4	13
11	Analytical investigation of the possibility of parameter invariant TCP-based radiation therapy plan ranking. <i>Acta OncolÅ³gica</i> , 2010, 49, 1324-1333.	0.8	12
12	Computed 88% TCP dose for SBRT of NSCLC from tumour hypoxia modelling. <i>Physics in Medicine and Biology</i> , 2013, 58, 4611-4620.	1.6	10
13	On differences in radiosensitivity estimation: TCP experiments versus survival curves. A theoretical study. <i>Physics in Medicine and Biology</i> , 2015, 60, N293-N299.	1.6	8
14	Applying radiobiological plan ranking methodology to VMAT prostate SBRT. <i>Physica Medica</i> , 2016, 32, 636-641.	0.4	8
15	A theoretical approach to the problem of dose-volume constraint estimation and their impact on the dose-volume histogram selection. <i>Medical Physics</i> , 2006, 33, 3435.	1.6	5
16	Probability dynamics of a repopulating tumor in case of fractionated external radiotherapy. <i>Physica Medica</i> , 2009, 25, 181-191.	0.4	5
17	Modelling the effect of spread in radiosensitivity parameters and repopulation rate on the probability of tumour control. <i>Physica Medica</i> , 2019, 63, 79-86.	0.4	5
18	Reverse mapping of normal tissue complication probabilities onto dose volume histogram space: The problem of randomness of the dose volume histogram sampling. <i>Medical Physics</i> , 2006, 33, 3444.	1.6	4

#	ARTICLE	IF	CITATIONS
19	Population TCP estimators in case of heterogeneous irradiation: A new discussion of an old problem. Acta Oncologica, 2010, 49, 1293-1303.	0.8	4
20	How well are clinical gross tumor volume DVHs approximated by an analytical function?. Radiology and Oncology, 2009, 43, .	0.6	3
21	TCP modelling – why is it important?. Acta Oncologica, 2010, 49, 1205-1205.	0.8	2
22	Investigation of the effect of natural tumor cell death on radiotherapy outcomes. Physics in Medicine and Biology, 2018, 63, 205001.	1.6	2
23	The Impact of Different Timing Schedules on Prostate HDR-Mono-Brachytherapy. A TCP Modeling Investigation. Cancers, 2021, 13, 4899.	1.7	2
24	Technical Note: Correction for intra-chamber dose gradients in reference dosimetry of flattening-filter-free MV photon beams. Medical Physics, 2016, 43, 4729-4733.	1.6	1
25	Analysis of a cohort of prostate patients treated with HDR mono-brachytherapy. Physical and Engineering Sciences in Medicine, 2021, 44, 487-495.	1.3	1
26	Functional form comparison between the population and the individual Poisson based TCP models. Radiology and Oncology, 2007, 41, .	0.6	1
27	A Method for Identification and Assessment of Radioxenon Plumes by Absorption in Polycarbonates. Sensors, 2021, 21, 8107.	2.1	0