Eugene Surdutovich

List of Publications by Year
in descending order

28	686	623734	610901
papers	citations	14 h-index	24 g-index

29	29	29	349
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Theoretical ground for precursor-based molecular spectroscopy. Physical Review A, 2021, 104, .	2.5	0
2	Multiscale modeling for cancer radiotherapies. Cancer Nanotechnology, 2019, 10, .	3.7	14
3	Phenomenon-based evaluation of relative biological effectiveness of ion beams by means of the multiscale approach. Cancer Nanotechnology, 2019, 10, .	3.7	13
4	Exploration of multifragmentation of Ar clusters with incident protons. European Physical Journal D, 2019, 73, 1.	1.3	7
5	Science vs. technology in radiation therapy from X-rays to ions. Cancer Nanotechnology, 2019, 10, .	3.7	0
6	Simulation of the ion-induced shock waves effects on the transport of chemically reactive species in ion tracks. European Physical Journal D, 2018, 72, 1.	1.3	21
7	Transport of secondary electrons through coatings of ion-irradiated metallic nanoparticles. European Physical Journal D, 2018, 72, 1.	1.3	19
8	Calculation of survival probabilities for cells exposed to high ion fluences. European Physical Journal D, 2018, 72, 1.	1.3	6
9	Cell survival probability in a spread-out Bragg peak for novel treatment planning. European Physical Journal D, 2017, 71, 1.	1.3	9
10	Ion-impact-induced multifragmentation of liquid droplets. European Physical Journal D, 2017, 71, 1.	1.3	11
11	Radial doses around energetic ion tracks and the onset of shock waves on the nanoscale. European Physical Journal D, 2017, 71, 1.	1.3	15
12	Multiscale approach predictions for biological outcomes in ion-beam cancer therapy. Scientific Reports, 2016, 6, 27654.	3.3	58
13	Nano-scale processes behind ion-beam cancer therapy. European Physical Journal D, 2016, 70, 1.	1.3	8
14	Transport of secondary electrons and reactive species in ion tracks. European Physical Journal D, 2015, 69, 1.	1.3	28
15	Comparative analysis of the secondary electron yield from carbon nanoparticles and pure water medium. European Physical Journal D, 2015, 69, 1.	1.3	8
16	Thermomechanical effects caused by heavy ions propagating in tissue. Radiation Protection Dosimetry, 2015, 166, 104-109.	0.8	0
17	Multiscale approach to the physics of radiation damage with ions. European Physical Journal D, 2014, 68, 1.	1.3	90
18	Analytical model of ionization and energy deposition by proton beams in subcellular compartments. European Physical Journal D, 2014, 68, 1.	1.3	7

#	Article	IF	Citations
19	Multiscale physics of ion-induced radiation damage. Applied Radiation and Isotopes, 2014, 83, 100-104.	1.5	5
20	Biodamage via shock waves initiated by irradiation with ions. Scientific Reports, 2013, 3, 1289.	3.3	51
21	Thermomechanical damage of nucleosome by the shock wave initiated by ion passing through liquid water. Nuclear Instruments & Methods in Physics Research B, 2012, 279, 135-139.	1.4	25
22	Calculation of complex DNA damage induced by ions. Physical Review E, 2011, 84, 051918.	2.1	25
23	Atomic and Molecular Data Needs for Radiation Damage Modeling: Multiscale Approach. AIP Conference Proceedings, 2011, , .	0.4	17
24	Spectra of secondary electrons generated in water by energetic ions. Physical Review E, 2010, 81, 021903.	2.1	50
25	Ion-beam cancer therapy: News about a multiscale approach to radiation damage. Mutation Research - Reviews in Mutation Research, 2010, 704, 206-212.	5.5	20
26	Shock wave initiated by an ion passing through liquid water. Physical Review E, 2010, 82, 051915.	2.1	50
27	Physics of ion beam cancer therapy: A multiscale approach. Physical Review E, 2009, 79, 011909.	2.1	124
28	Ion-beam therapy: from electron production in tissue like media to DNA damage estimations. , 2008, , .		5