

# Sergei G Stuchebrov

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

139  
citations

1307594

7  
h-index

1474206

9  
g-index

40  
all docs

40  
docs citations

40  
times ranked

50  
citing authors

#	ARTICLE	IF	CITATIONS
1	FLAP Collaboration: Tasks and Perspectives. Study of Fundamentals and New Applications of Controllable Generation of Electromagnetic Radiation by Relativistic Electrons Using Functional Materials. <i>Physics of Particles and Nuclei Letters</i> , 2021, 18, 338-353.	0.4	1
2	Changes in the physical and structural properties of 3D-printed plastic samples under radiation exposure by nearly therapeutic dose. <i>Journal of Instrumentation</i> , 2020, 15, C04046-C04046.	1.2	2
3	Theoretical study of the dose measurements reliability with longitudinally arranged dosimetry films in materials with different densities. <i>Journal of Instrumentation</i> , 2020, 15, C03037-C03037.	1.2	1
4	Influence of 3D-printed collimator thickness on near-the-edge scattering of high-energy electrons. <i>Journal of Instrumentation</i> , 2020, 15, C04023-C04023.	1.2	2
5	Comparison of Electron Beam Scattering at Edges of 3D-Printed Plastic and Metal Collimators. <i>Bulletin of the Lebedev Physics Institute</i> , 2019, 46, 222-224.	0.6	1
6	Feasibility of clinical electron beam formation using polymer materials produced by fused deposition modeling. <i>Physica Medica</i> , 2019, 64, 188-194.	0.7	9
7	EP-1706 Production of samples with specified CT indices by 3D printing. <i>Radiotherapy and Oncology</i> , 2019, 133, S918-S919.	0.6	1
8	EP-1857 Simulating the interaction of clinical electron beams with tissue-equivalent samples produced by FDM. <i>Radiotherapy and Oncology</i> , 2019, 133, S1008-S1009.	0.6	2
9	Evaluation of the Effect of Moisture Content in the Wood Sample Structure on the Quality of Tomographic X-Ray Studies of Tree Rings of Stem Wood. <i>Bulletin of the Lebedev Physics Institute</i> , 2019, 46, 16-18.	0.6	0
10	Analysis of Plane-Parallel Electron Beam Propagation in Different Media by Numerical Simulation Methods. <i>Russian Physics Journal</i> , 2018, 60, 2115-2122.	0.4	2
11	Investigation of the Therapeutic Electron Beams Formation Efficiency by Metal Collimators and Products Manufactured by Rapid Prototyping Technique. <i>Physics of Particles and Nuclei Letters</i> , 2018, 15, 963-966.	0.4	5
12	The method for the electron beam cross section measurement based on the detection of Cherenkov radiation in dielectric fiber. <i>Journal of Instrumentation</i> , 2018, 13, C05020-C05020.	1.2	2
13	Polycapillary-based 3D X-ray imaging of porous organic materials. <i>Journal of Instrumentation</i> , 2018, 13, C07003-C07003.	1.2	2
14	Cherenkov radiation from the target with predetermined dielectric properties, produced by a 3D-printer. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 402, 194-197.	1.4	1
15	Application of polycapillary optics for dual energy spectroscopy based on a laboratory source. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 402, 278-281.	1.4	4
16	Simulation of the X-Ray Beam Absorption by the ABS-Plastic Filled with Different Metallic Additives. <i>Journal of Physics: Conference Series</i> , 2016, 769, 012014.	0.4	2
17	Numerical Simulation of the Medical Linear Accelerator Electron Beams Absorption by ABS-Plastic doped with Metal. <i>Journal of Physics: Conference Series</i> , 2016, 732, 012033.	0.4	0
18	Modernization of the X-Ray Tomographic Scanner Based on Gas-Discharge Linear Detector. <i>Journal of Physics: Conference Series</i> , 2016, 671, 012004.	0.4	2

#	ARTICLE	IF	CITATIONS
19	The Dosimetric Parameters Investigation of the Pulsed X-ray and Gamma Radiation Sources. Journal of Physics: Conference Series, 2016, 671, 012051.	0.4	7
20	The X-ray Beam Passage through the Collimator Made of Different Materials: Numerical Simulation. Journal of Physics: Conference Series, 2016, 671, 012012.	0.4	4
21	Numerical Simulation of the Microtron Electron Beam Absorption by the Modified ABS-Plastic. Journal of Physics: Conference Series, 2016, 671, 012036.	0.4	9
22	Simulation of the microtron electron beam profile formation using flattening filters. Physics of Particles and Nuclei Letters, 2016, 13, 890-892.	0.4	10
23	Formation of electron beam fields with 3D printed filters. AIP Conference Proceedings, 2016, , .	0.4	10
24	Development of the method for the electron beam spatial distribution determination in the transverse plane. AIP Conference Proceedings, 2016, , .	0.4	8
25	Making 3D model of atrioventricular xenopericardial bioprosthesis from X-ray computed tomography data. , 2016, , .		0
26	Measurement Technique of Dose Rate Distribution of Ionization Sources with Unstable in Time Beam Parameters. Journal of Physics: Conference Series, 2016, 671, 012057.	0.4	7
27	Comparison of the calculated and experimental data of the extracted electron beam profile. IOP Conference Series: Materials Science and Engineering, 2015, 93, 012067.	0.6	0
28	Performance Evaluation of Micro-CT Scanners as Visualization Systems. Advanced Materials Research, 2015, 1084, 694-697.	0.3	2
29	Radiation Dose Measurement Technique of the X-Ray Source in the Process of Stabilization. Advanced Materials Research, 2015, 1085, 478-481.	0.3	1
30	Application of Traditional and Nanostructure Materials for Medical Electron Beams Collimation: Numerical Simulation. IOP Conference Series: Materials Science and Engineering, 2015, 98, 012011.	0.6	6
31	Radiation Burden Decline to the Objects in the X-Ray Investigation. Advanced Materials Research, 2015, 1084, 698-701.	0.3	0
32	WD-XRA technique in multiphase flow measuring. Nuclear Instruments & Methods in Physics Research B, 2015, 355, 276-280.	1.4	4
33	Estimation of Radiation Doses in X-Ray Visualization of Biological Objects. Advanced Materials Research, 2014, 880, 53-56.	0.3	6
34	Digital X-Ray Apparatus Based on the Scanning R-Ray Gas-Discharge Detector for Studying of Interior Structure of Biological Objects. Advanced Materials Research, 2014, 880, 168-173.	0.3	9
35	The dosymetric parameters investigation of the pulsed gamma radiation source based on betatron. , 2014, , .		0
36	The Radiation Dose Determination of the Pulsed X-ray Source. IOP Conference Series: Materials Science and Engineering, 2014, 66, 012031.	0.6	1

#	ARTICLE	IF	CITATIONS
37	Setups for Tomographic Imaging with Submillimeter Spatial Resolution. Journal of Physics: Conference Series, 2014, 517, 012046.	0.4	7
38	Acoustic "pumping effect" for quartz monochromators. Journal of Physics: Conference Series, 2012, 357, 012031.	0.4	3
39	Dose Rate Spatial Distribution Produced by the Pulsed X-Ray Source in the Radiographic Examination. Advanced Materials Research, 0, 1084, 598-601.	0.3	2
40	Applicability of Poly(styrene-butadiene-styrene) for Three-Dimensional Printing of Tissue-Equivalent Samples. 3D Printing and Additive Manufacturing, 0, , .	2.9	4