Sergey Tereshchenko

List of Publications by Year
in descending order

59 papers	160 citations	1478280 6 h-index	1281743 11 g-index
59 all docs	59 docs citations	59 times ranked	88 citing authors

#	Article	IF	Citations
1	Nonlinear threshold effect in the Z-scan method of characterizing limiters for high-intensity laser light. Journal of Applied Physics, 2016, 120, .	1.1	20
2	Threshold effect under nonlinear limitation of the intensity of high-power light. Quantum Electronics, 2015, 45, 315-320.	0.3	13
3	Acoustical multipath flow measurements based on quadrature integration methods. Acoustical Physics, 2004, 50, 100-106.	0.2	12
4	Investigation of nonlinear characteristics of intensity limiters of high-power laser radiation. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2014, 116, 454-461.	0.2	12
5	Depolarization of Light Scattered in Water Dispersions of Nanoparticles of Different Shapes. Bio-Medical Engineering, 2016, 49, 394-397.	0.3	10
6	A refined diffusion model of the interaction of laser radiation with biological tissue. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2007, 102, 771-776.	0.2	9
7	Multiplex systems for the detection of ionizing radiation. 2. Experimental design and optimization. Measurement Techniques, 1996, 39, 965-978.	0.2	6
8	Title is missing!. Measurement Techniques, 2001, 44, 422-427.	0.2	6
9	Single-photon emission computed tomography in a proportional scattering medium. Technical Physics, 2017, 62, 1293-1299.	0.2	6
10	Determination of optical characteristics of biological tissues by temporal distribution of an ultrashort laser pulse passed through homogeneous scattering layer. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2011, 110, 652-658.	0.2	5
11	Determination of the Composition of Liquid Polydispersions of Cylinder-like Microorganisms from the Laser Depolarization Degree. Bio-Medical Engineering, 2017, 50, 385-389.	0.3	5
12	Electrokinetic Potential of Nanorods and Cells in Liquid Dispersions. Bio-Medical Engineering, 2017, 50, 333-338.	0.3	5
13	Extended pseudorandom sequences and two-dimensional coding collimators based on them. Measurement Techniques, 2007, 50, 681-689.	0.2	4
14	Investigation of the Nonlinear Properties of Carbon Nanomaterials for Thresholding of Powerful Laser Radiation. Bio-Medical Engineering, 2015, 48, 324-327.	0.3	4
15	Investigation of the Scattering Influence on the Quality of Image Reconstruction in Single-Photon Emission Computed Tomography in a Proportional Scattering Medium. Bio-Medical Engineering, 2020, 53, 370-374.	0.3	4
16	Multiplexed systems for the detection of ionizing radiation. Measurement Techniques, 1995, 38, 1287-1297.	0.2	3
17	Integrating encoding systems for recording ionizing radiation. Measurement Techniques, 1997, 40, 164-174.	0.2	3
18	Use of generalized one-dimensional sequences for constructing two-dimensional codes and encoding devices in integrated encoding measuring systems. Measurement Techniques, 1999, 42, 181-191.	0.2	3

#	Article	IF	Citations
19	Transmission tomography of proportional scattering media. Technical Physics, 2008, 53, 887-893.	0.2	3
20	Investigation of nonstationary models of laser pulse propagation through a homogeneous scattering layer. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2012, 113, 431-436.	0.2	3
21	Nonstationary two-flux model of radiation transport for optical tomography of scattering media. Technical Physics, 1997, 42, 511-515.	0.2	2
22	New class of 2D code and encoders for multiplexed measuring systems. Measurement Techniques, 1997, 40, 995-1002.	0.2	2
23	Integrating encoding systems for recording ionizing radiation. Instrumental functions (distributed) Tj ETQq1 1 0.784314 rgBT /Overlo	0.2	2
24	Integrating enconding systems for recording ionizing radiation. Oblique incidence of radiation. Measurement Techniques, 1999, 42, 479-489.	0.2	2
25	Integrally Encoded Systems for Recording Ionizing Radiations. Bipolar Measurements. Measurement Techniques, 2005, 48, 606-612.	0.2	2
26	Experimental study of optical characteristics of homogeneous highly-dispersive biological medium. Bio-Medical Engineering, 2007, 41, 53-58.	0.3	2
27	Optimization of integral-code measuring systems for planar tomography constructed using extended pseudorandom sequences. Measurement Techniques, 2010, 53, 313-320.	0.2	2
28	Simulation of Transcutaneous Wireless Energy Transfer using Infrared Radiation. Bio-Medical Engineering, 2012, 45, 218-220.	0.3	2
29	Research and Education Complex for Personnel Training and Basic and Applied Science Research at the Biomedical Systems Department of the National Research University of Electronic Technology (MIET). Bio-Medical Engineering, 2013, 47, 111-115.	0.3	2
30	Reconstruction of Radiation Source Spatial Distribution by Unipolar and Bipolar Measuring Circuits Using Hexagonal Coding Collimators. Bio-Medical Engineering, 2014, 48, 49-52.	0.3	2
31	Emission tomography of radially symmetric objects and exponential Abelian transform. Technical Physics, 2005, 50, 152-157.	0.2	1
32	Development of optical introscopy in medical engineering. Bio-Medical Engineering, 2007, 41, 2-6.	0.3	1
33	Point spread functions of integral-code measurement systems with multiple-pinhole hexagonal coding collimators. Measurement Techniques, 2012, 55, 574-582.	0.2	1
34	Single-photon emission computed tomography in the scattering medium with the property of â€œscattering straight backâ€• Journal of Applied Physics, 2021, 129, 035101.	1.1	1
35	Solution of the problem of optical tomography for bounded scattering media in the two-flux radiation-transfer model. Technical Physics Letters, 1997, 23, 684-685.	0.2	0
36	Models of radiation propagation in medical laser tomography systems. Bio-Medical Engineering, 1999, 33, 269-278.	0.3	0

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37	Correction of Light Reflection and Refraction in Optical Transmission Medical Tomography. Bio-Medical Engineering, 2002, 36, 119-125.	0.3	0
38	Optical-radiation power limiting in high-scattering media. Doklady Physics, 2004, 49, 512-515.	0.2	0
39	Tomographic Restoration of the Optical Characteristics of Biological Objects in the Approximation of a Proportional Medium. Bio-Medical Engineering, 2004, 38, 112-115.	0.3	0
40	Experimental determination of radiation scattering and absorption coefficients in a homogeneous layer of highly dispersive biological medium. Bio-Medical Engineering, 2006, 40, 175-179.	0.3	0
41	Extended ternary sequences and two-dimensional coding collimators based on them. Measurement Techniques, 2008, 51, 903-912.	0.2	0
42	Determination of Optical Characteristics of Highly Scattering Biological Medium Based on Enhanced Diffusion Model of Radiation Transport. Bio-Medical Engineering, 2010, 44, 6-10.	0.3	0
43	Simultaneous Determination of Extinction and Scattering Coefficients of Highly Dispersive Biological Medium Using Continuous Laser Emission. Bio-Medical Engineering, 2010, 44, 104-107.	0.3	0
44	Determination of the absorption and scattering coefficients of highly scattering media from the experimentally established temporal distributions of laser pulse intensities. Semiconductors, 2011, 45, 1628-1631.	0.2	0
45	Experimental Determination of Conditions for Existence of a Bimodal Temporal Distribution of a Laser Pulse Passing through a Homogeneous Layer of a Highly Scattering Biological Medium. Bio-Medical Engineering, 2011, 44, 228.	0.3	0
46	Comparative Study of Diffusion and Axial Models of Radiation Passing through a Biological Scattering Layer Based on the Monte Carlo Method. Bio-Medical Engineering, 2012, 45, 211-213.	0.3	0
47	Monte Carlo Simulation of Optical Energy Transfer Through Biological Tissues. Bio-Medical Engineering, 2014, 47, 315-318.	0.3	0
48	Preliminary Tests of Multiplex Immunoassay for Detection of TORCH Infections in Human Blood Serum Using Flow Cytometry. Bio-Medical Engineering, 2015, 49, 85-89.	0.3	0
49	New Class of Pseudo-Random Hexagonal Configurations for Coding Collimators of Ionizing Radiation. Bio-Medical Engineering, 2015, 48, 297-300.	0.3	0
50	Determination of Optical Characteristics of Scattering Biological Media Based on Bimodality Effect of Temporal Distribution of Laser Pulses. Bio-Medical Engineering, 2015, 48, 288-291.	0.3	0
51	A New Class of Pseudo-Random Binary Configurations for Coding Collimators of Ionizing Radiation. Measurement Techniques, 2015, 58, 208-213.	0.2	0
52	Threshold effect in the substance with carbon nanotubes and graphene oxide within optical limiting. , 2016, , .		0
53	Generalized Extended Sequences for Integrated-Code Measurement Systems. Measurement Techniques, 2017, 60, 755-762.	0.2	0
54	A Back Projection Method for Hexagonal Coding Collimators in Emission Tomography with Multiplexed Measurement Systems. Bio-Medical Engineering, 2018, 51, 441-445.	0.3	0

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55	Numerical simulation of single-photon emission computed tomography in a proportional scattering medium. AIP Conference Proceedings, 2019, , .	0.3	0
56	Development of the experimental setup for determination of nanoparticle sizes by nanotracking. , 2018, , .		0
57	Threshold effect in properties of limiters for high-intensity laser radiation. , 2018, , .		0
58	Development of the experimental setup for multispectral nanoparticle tracking analysis. , 2018, , .		0
59	Reconstruction of the Radiation Source Spatial Distribution in a Proportional Scattering Medium. Technical Physics, 2021, 66, 805-814.	0.2	0