

Victor V Dyomin

List of Publications by Year in descending order

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59
papers

386
citations

759055

12
h-index

940416

16
g-index

59
all docs

59
docs citations

59
times ranked

113
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of volume inclusions of the ZnGeP ₂ single-crystal on the dispersion of the refraction index and the absorption coefficient in mid-IR and terahertz ranges of wavelengths. <i>Optical Materials</i> , 2021, 111, 110662.	1.7	2
2	Visualization of volumetric defects and dynamic processes in crystals by digital IR-holography. <i>Applied Optics</i> , 2021, 60, A296.	0.9	8
3	Laser-Induced Damage Threshold of Nonlinear GaSe and GaSe:In Crystals upon Exposure to Pulsed Radiation at a Wavelength of 2.1 μ m. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1208.	1.3	7
4	Digital hologram as a display optical system. , 2021, , .		1
5	Underwater Holographic Sensor for Plankton Studies In Situ including Accompanying Measurements. <i>Sensors</i> , 2021, 21, 4863.	2.1	11
6	Phototropic response features for different systematic groups of mesoplankton under adverse environmental conditions. <i>Ecology and Evolution</i> , 2021, 11, 16487-16498.	0.8	3
7	Digital holography of marine particles in situ during the Arctic Expedition. , 2021, , .		0
8	Planktonic response to light as a pollution indicator. <i>Journal of Great Lakes Research</i> , 2020, 46, 41-47.	0.8	9
9	Monitoring of Plankton Spatial and Temporal Characteristics With the Use of a Submersible Digital Holographic Camera. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	21
10	Application of Infrared Digital Holography for Characterization of Inhomogeneities and Voluminous Defects of Single Crystals on the Example of ZnGeP ₂ . <i>Applied Sciences (Switzerland)</i> , 2020, 10, 442.	1.3	14
11	Tunable THz-radiation in a ZnGeP ₂ single crystal pumped by dual-wavelength degenerate optical parametric oscillator. <i>Laser Physics Letters</i> , 2020, 17, 035402.	0.6	4
12	Underwater holographic sensors for plankton studies in situ. , 2020, , .		0
13	Evaluation of the effect of noise in a digital holographic system on the quality of reconstructed particle image. , 2020, , .		2
14	Hydrobiological Probe for the in Situ Study and Monitoring of Zooplankton. , 2019, , .		6
15	Investigation of the Process of Optical Damage of ZnGeP ₂ Crystals Using Digital Holography. <i>Russian Physics Journal</i> , 2019, 61, 2042-2052.	0.2	13
16	Hardware means for monitoring research of plankton in the habitat: problems, state of the art, and prospects. , 2019, , .		8
17	Digital holographic camera for plankton monitoring. , 2019, , .		7
18	Holography of particles for diagnostics tasks [Invited]. <i>Applied Optics</i> , 2019, 58, G300.	0.9	30

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19	Marine Tests of a Digital Holographic Module Using a Measuring Technological Platform. <i>Oceanology</i> , 2018, 58, 749-759.	0.3	14
20	Energy and spectral characteristics of a parametric generator based on a nonlinear ZnGeP2 crystal pumped by a Ho : YAG laser. <i>Quantum Electronics</i> , 2018, 48, 603-606.	0.3	8
21	Physical Approaches to Designing a Two-Cascade Terahertz Laser Generating Difference-Frequency Radiation in a Nonlinear Optical ZnGeP2 Crystal. <i>Russian Physics Journal</i> , 2018, 60, 1980-1986.	0.2	5
22	Physical Principles of the Method for Determination of Geometrical Characteristics and Particle Recognition in Digital Holography. <i>Russian Physics Journal</i> , 2018, 60, 2044-2046.	0.2	2
23	Data acquisition from digital holograms of particles. , 2018, , .		8
24	Marine particles investigation by underwater digital holography. , 2018, , .		9
25	Principles of creation of a tunable terahertz laser with lasing at a difference frequency in a nonlinear ZnGeP2 optical crystal. <i>Journal of Optical Technology (A Translation of Opticheskii Tj ETQq1 1 0.7843140gBT /Overlock 10</i>		0
26	Underwater Digital Holography for Particles Research. , 2018, , .		0
27	Physical Reasons for a Mismatch Between the Coordinates of a Particle and Its Image in Digital Holography. <i>Russian Physics Journal</i> , 2017, 59, 2025-2033.	0.2	1
28	Plankton investigation in the Kara Sea by a submersible digital holocamera. , 2017, , .		2
29	MOOC Quality Evaluation System: Tomsk State University Experience. <i>Lecture Notes in Computer Science</i> , 2017, , 197-202.	1.0	2
30	Fast recognition of marine particles in underwater digital holography. , 2017, , .		8
31	Development principals of three cascaded terahertz laser with generation of difference frequency radiation in the nonlinear optical crystal ZnGeP2 for terahertz holography. , 2017, , .		0
32	Information extraction from digital holograms of particles. , 2016, , .		7
33	Quality Control of ZnGeP2 Single Crystals Using Optical Methods. <i>Russian Physics Journal</i> , 2016, 58, 1479-1481.	0.2	7
34	Improvement of the Quality of Reconstructed Holographic Images by Extrapolation of Digital Holograms. <i>Russian Physics Journal</i> , 2016, 58, 1413-1419.	0.2	10
35	Evaluation of Algorithms for Automatic Data Extraction from Digital Holographic Images of Particles. <i>Russian Physics Journal</i> , 2016, 58, 1467-1474.	0.2	20
36	Investigation of particles located in the water by digital holography. , 2016, , .		1

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37	Methods of Processing and Retrieval of Information from Digital Particle Holograms and Their Application. Radiophysics and Quantum Electronics, 2015, 57, 533-542.	0.1	14
38	Methods for image enhancement and accuracy increase in the digital holography of particles. , 2014, , .		1
39	Influence of characteristics of the camera used to record digital in-line holograms of particles, on the quality of the reconstructed images. Russian Physics Journal, 2013, 55, 1307-1313.	0.2	12
40	A Comparison of Methods for Evaluating the Location of the Best Focusing Planes of Particle Images Reconstructed from Digital Holograms. Russian Physics Journal, 2013, 56, 822-830.	0.2	9
41	Stability of the quality criteria for holographic particle images. Russian Physics Journal, 2013, 55, 930-936.	0.2	3
42	Two-dimensional representation of a digital holographic image of the volume of a medium with particles as a method of depicting and processing information concerning the particles. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2013, 80, 450.	0.2	16
43	Image-quality criteria in the digital holography of particles. Journal of Optical Technology (A) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 462 To	0.2	20
44	Digital holographic video for studying biological particles. Journal of Optical Technology (A) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 To	0.2	20
45	Evaluation of the plankton species coordinates from digital holographic video. , 2011, , .		2
46	Digital holographic video for studies of plankton dynamics. Russian Physics Journal, 2011, 53, 857-866.	0.2	16
47	Quality criteria for holographic images of particles of various shapes. Russian Physics Journal, 2011, 53, 927-935.	0.2	14
48	Holography as a tool for advanced learning of optics and photonics. , 2009, , .		1
49	Digital holographic video of plankton. , 2008, , .		6
50	Reducing the Aberrations of Holographic Images of Underwater Particles by Using the Off-axis Scheme with Normal Incidence of Object Beam. , 2007, , .		3
51	<title>An optical system of the underwater holocamera for the particle recording</title>. , 2004, , .		0
52	Holographic diagnostics of biological microparticles in liquid media. , 2002, 4678, 382.		0
53	<title>Holographing of transparent and semitransparent microparticles</title>. , 1999, 3749, 456.		0
54	<title>Methods of obtaining meaningful information from disperse media holograms</title>. , 1997, , .		0

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55	<title>Development of methods for optical diagnostics of microstructure parameters of water suspensions</title>. , 1996, 2678, 543.		1
56	<title>Holographic diagnostics of biological microparticles</title>. , 1996, , .		1
57	Holography of optically soft microparticles. , 1995, , .		0
58	Set of instrumentation and methodological instructions for practical work in optics. , 1995, 2525, 45.		3
59	Fresnelâ€™s rings in reconstruction of scattering media holograms. Applied Optics, 1995, 34, 4073.	2.1	1