

Victor V Dyomin

List of Publications by Year in descending order

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59
papers

386
citations

759055

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16
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59
all docs

59
docs citations

59
times ranked

113
citing authors

#	ARTICLE	IF	CITATIONS
1	Holography of particles for diagnostics tasks [Invited]. Applied Optics, 2019, 58, G300.	0.9	30
2	Monitoring of Plankton Spatial and Temporal Characteristics With the Use of a Submersible Digital Holographic Camera. Frontiers in Marine Science, 2020, 7, .	1.2	21
3	Digital holographic video for studying biological particles. Journal of Optical Technology (A) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.2	20
4	Evaluation of Algorithms for Automatic Data Extraction from Digital Holographic Images of Particles. Russian Physics Journal, 2016, 58, 1467-1474.	0.2	20
5	Digital holographic video for studies of plankton dynamics. Russian Physics Journal, 2011, 53, 857-866.	0.2	16
6	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
7	Quality criteria for holographic images of particles of various shapes. Russian Physics Journal, 2011, 53, 927-935.	0.2	14
8	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
9	Marine Tests of a Digital Holographic Module Using a Measuring Technological Platform. Oceanology, 2018, 58, 749-759.	0.3	14
10	Application of Infrared Digital Holography for Characterization of Inhomogeneities and Voluminous Defects of Single Crystals on the Example of ZnGeP2. Applied Sciences (Switzerland), 2020, 10, 442.	1.3	14
11	Investigation of the Process of Optical Damage of ZnGeP2 Crystals Using Digital Holography. Russian Physics Journal, 2019, 61, 2042-2052.	0.2	13
12	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
13	Underwater Holographic Sensor for Plankton Studies In Situ including Accompanying Measurements. Sensors, 2021, 21, 4863.	2.1	11
14	Improvement of the Quality of Reconstructed Holographic Images by Extrapolation of Digital Holograms. Russian Physics Journal, 2016, 58, 1413-1419.	0.2	10
15	Image-quality criteria in the digital holography of particles. Journal of Optical Technology (A) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.2	10
16	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
17	Planktonic response to light as a pollution indicator. Journal of Great Lakes Research, 2020, 46, 41-47.	0.8	9
18	Marine particles investigation by underwater digital holography. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
19	Energy and spectral characteristics of a parametric generator based on a nonlinear ZnGeP ₂ crystal pumped by a Ho : YAG laser. Quantum Electronics, 2018, 48, 603-606.	0.3	8
20	Hardware means for monitoring research of plankton in the habitat: problems, state of the art, and prospects. , 2019, , .		8
21	Visualization of volumetric defects and dynamic processes in crystals by digital IR-holography. Applied Optics, 2021, 60, A296.	0.9	8
22	Fast recognition of marine particles in underwater digital holography. , 2017, , .		8
23	Data acquisition from digital holograms of particles. , 2018, , .		8
24	Information extraction from digital holograms of particles. , 2016, , .		7
25	Quality Control of ZnGeP ₂ Single Crystals Using Optical Methods. Russian Physics Journal, 2016, 58, 1479-1481.	0.2	7
26	Laser-Induced Damage Threshold of Nonlinear GaSe and GaSe:In Crystals upon Exposure to Pulsed Radiation at a Wavelength of 2.1 μm. Applied Sciences (Switzerland), 2021, 11, 1208.	1.3	7
27	Digital holographic camera for plankton monitoring. , 2019, , .		7
28	Digital holographic video of plankton. , 2008, , .		6
29	Hydrobiological Probe for the in Situ Study and Monitoring of Zooplankton. , 2019, , .		6
30	Physical Approaches to Designing a Two-Cascade Terahertz Laser Generating Difference-Frequency Radiation in a Nonlinear Optical ZnGeP ₂ Crystal. Russian Physics Journal, 2018, 60, 1980-1986.	0.2	5
31	Tunable THz-radiation in a ZnGeP ₂ single crystal pumped by dual-wavelength degenerate optical parametric oscillator. Laser Physics Letters, 2020, 17, 035402.	0.6	4
32	Principles of creation of a tunable terahertz laser with lasing at a difference frequency in a nonlinear ZnGeP ₂ optical crystal. Journal of Optical Technology (A Translation of Opticheskie) Tj ETQqO 0 0 rgBT /Overlock 104f 50 217		4
33	Set of instrumentation and methodological instructions for practical work in optics. , 1995, 2525, 45.		3
34	Reducing the Aberrations of Holographic Images of Underwater Particles by Using the Off-axis Scheme with Normal Incidence of Object Beam. , 2007, , .		3
35	Stability of the quality criteria for holographic particle images. Russian Physics Journal, 2013, 55, 930-936.	0.2	3
36	Phototropic response features for different systematic groups of mesoplankton under adverse environmental conditions. Ecology and Evolution, 2021, 11, 16487-16498.	0.8	3

#	ARTICLE	IF	CITATIONS
37	Evaluation of the plankton species coordinates from digital holographic video. , 2011, , .		2
38	Plankton investigation in the Kara Sea by a submersible digital holocamera. , 2017, , .		2
39	Physical Principles of the Method for Determination of Geometrical Characteristics and Particle Recognition in Digital Holography. Russian Physics Journal, 2018, 60, 2044-2046.	0.2	2
40	The effect of volume inclusions of the ZnGeP2 single-crystal on the dispersion of the refraction index and the absorption coefficient in mid-IR and terahertz ranges of wavelengths. Optical Materials, 2021, 111, 110662.	1.7	2
41	MOOC Quality Evaluation System: Tomsk State University Experience. Lecture Notes in Computer Science, 2017, , 197-202.	1.0	2
42	Evaluation of the effect of noise in a digital holographic system on the quality of reconstructed particle image. , 2020, , .		2
43	Fresnelâ€™s rings in reconstruction of scattering media holograms. Applied Optics, 1995, 34, 4073.	2.1	1
44	<title>Development of methods for optical diagnostics of microstructure parameters of water suspensions</title>. , 1996, 2678, 543.		1
45	<title>Holographic diagnostics of biological microparticles</title>. , 1996, , .		1
46	Holography as a tool for advanced learning of optics and photonics. , 2009, , .		1
47	Methods for image enhancement and accuracy increase in the digital holography of particles. , 2014, , .		1
48	Investigation of particles located in the water by digital holography. , 2016, , .		1
49	Physical Reasons for a Mismatch Between the Coordinates of a Particle and Its Image in Digital Holography. Russian Physics Journal, 2017, 59, 2025-2033.	0.2	1
50	Digital hologram as a display optical system. , 2021, , .		1
51	Holography of optically soft microparticles. , 1995, , .		0
52	<title>Methods of obtaining meaningful information from disperse media holograms</title>. , 1997, , .		0
53	<title>Holographing of transparent and semitransparent microparticles</title>. , 1999, 3749, 456.		0
54	Holographic diagnostics of biological microparticles in liquid media. , 2002, 4678, 382.		0

#	ARTICLE	IF	CITATIONS
55	<title>An optical system of the underwater holocamera for the particle recording</title>. , 2004, , .		0
56	Development principals of three cascaded terahertz laser with generation of difference frequency radiation in the nonlinear optical crystal ZnGeP2 for terahertz holography. , 2017, , .		0
57	Underwater Digital Holography for Particles Research. , 2018, , .		0
58	Underwater holographic sensors for plankton studies in situ. , 2020, , .		0
59	Digital holography of marine particles in situ during the Arctic Expedition. , 2021, , .		0