

Alexey Valkov

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

137
citations

7
h-index

10
g-index

39
ext. papers

155
ext. citations

1.4
avg, IF

2.32
L-index

#	Paper	IF	Citations
31	Monte Carlo and Milne-like solutions for temporal correlation function in a wide temporal range. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021 , 272, 107760	2.1	0
30	SH-waveform modeling of small local seismic events in Ladoga lake. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	
29	Bethe-Salpeter-based simulations of multiple scattering from bounded media. <i>Journal of Physics: Conference Series</i> , 2019 , 1236, 012048	0.3	1
28	Photon Diffusion in Random Media and Anisotropy of Scattering in the Henyey-Greenstein and Rayleigh-Gans Models. <i>Journal of Experimental and Theoretical Physics</i> , 2019 , 128, 396-406	1	4
27	The temporal correlation transfer in layered bio-models. <i>Journal of Physics: Conference Series</i> , 2019 , 1425, 012173	0.3	
26	Electric field driven transformations of orientational structure in chiral nematic systems with large flexoelectricity. <i>Journal of Physics: Conference Series</i> , 2019 , 1425, 012176	0.3	
25	Influence of flexoelectric effect on the Fréedericksz transition in chiral nematic liquid crystals. <i>Physical Review E</i> , 2018 , 98, 012702	2.4	2
24	Effect of flexoelectricity on the Fréedericksz transition in chiral nematics with negative dielectric anisotropy. <i>Journal of Physics: Conference Series</i> , 2018 , 1141, 012147	0.3	1
23	Simulation of multiple scattering in a medium with an anisotropic scattering pattern. <i>JETP Letters</i> , 2017 , 105, 283-288	1.2	4
22	Numerical simulation of photon density waves in a biophantom with foreign objects. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2015 , 119, 513-519	0.7	2
21	First-order and continuous Fréedericksz transitions in cholesteric liquid crystals. <i>Physical Review E</i> , 2013 , 87, 022508	2.4	16
20	Field of a point source in a semi-infinite elastic medium. <i>Waves in Random and Complex Media</i> , 2012 , 22, 423-434	1.9	2
19	Effect of external field on coherent backscattering in nematics. <i>Optics Letters</i> , 2012 , 37, 656-8	3	2
18	Coherent backscattering in nematic liquid crystals in an external magnetic field. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2011 , 111, 465-476	0.7	5
17	Propagation and scattering of light in stratified media 2010 , 104, 391		
16	Effect of turning of rays on scattering of light in a layered medium. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2008 , 105, 591-610	0.7	3
15	Return back of the extraordinary beam for oblique incidence in helical liquid crystals with large pitch. <i>Europhysics Letters</i> , 2005 , 69, 68-74	1.6	11

14	Scattering of light in cholesteric liquid crystals with large pitch. <i>Physical Review E</i> , 2005 , 71, 051702	2.4	2
13	Calculation of correlation function of the director fluctuations in cholesteric liquid crystals by WKB method. <i>Journal of Mathematical Physics</i> , 2004 , 45, 2420-2446	1.2	3
12	Light scattering in cholesteric liquid crystals with a large pitch. <i>Journal of Experimental and Theoretical Physics</i> , 2004 , 98, 62-92	1	8
11	Extraordinary ray refraction in a large pitch helical medium. <i>Journal of Experimental and Theoretical Physics</i> , 2004 , 99, 965-977	1	1
10	Optical Properties and Fluctuations in Liquid Crystals with One-Dimensional Large-Scale Periodicity 2003 , 518-534		
9	Waveguide Propagation of Light in Cholesterics with Large Pitch. <i>Molecular Crystals and Liquid Crystals</i> , 2001 , 359, 351-364		5
8	Fluctuations in bounded cells of liquid crystals in an external field. <i>Journal of Experimental and Theoretical Physics</i> , 2001 , 93, 344-362	1	4
7	Specific features of optical properties of helical liquid crystals with a large helix pitch. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2001 , 91, 969-981	0.7	7
6	Green's function of wave field in media with one-dimensional large-scale periodicity. <i>Physical Review E</i> , 1999 , 59, 1184-1192	2.4	13
5	The anisotropic analogues of Kerr and Cotton-Muton effects in the ordered nematic liquid crystals with negative anisotropy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999 , 148, 179-187	5.1	3
4	Fluctuations and light scattering in liquid crystals. <i>Physics-Uspokhi</i> , 1994 , 37, 139-183	2.8	20
3	Light scattering on director fluctuations in smectic-A liquid crystals. <i>Physical Review E</i> , 1994 , 49, 4121-4134		3
2	Green's function of the electromagnetic field in biaxial media. <i>Physical Review E</i> , 1993 , 48, 1436-1446	2.4	13
1	Superexponential Damping of Mean Field Propagating in Randomly Inhomogeneous Medium with Anomalously Large-Scale Nonuniformities. <i>Springer Proceedings in Physics</i> , 1992 , 150-158	0.2	