

# Alexey Valkov

## List of Publications by Citations

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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	Fluctuations and light scattering in liquid crystals. <i>Physics-Uspekhi</i> , <b>1994</b> , 37, 139-183	2.8	20
30	First-order and continuous Fr�dericksz transitions in cholesteric liquid crystals. <i>Physical Review E</i> , <b>2013</b> , 87, 022508	2.4	16
29	Green's function of wave field in media with one-dimensional large-scale periodicity. <i>Physical Review E</i> , <b>1999</b> , 59, 1184-1192	2.4	13
28	Green's function of the electromagnetic field in biaxial media. <i>Physical Review E</i> , <b>1993</b> , 48, 1436-1446	2.4	13
27	Return back of the extraordinary beam for oblique incidence in helical liquid crystals with large pitch. <i>Europhysics Letters</i> , <b>2005</b> , 69, 68-74	1.6	11
26	Light scattering in cholesteric liquid crystals with a large pitch. <i>Journal of Experimental and Theoretical Physics</i> , <b>2004</b> , 98, 62-92	1	8
25	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> , <b>2001</b> , 91, 969-981	0.7	7
24	Coherent backscattering in nematic liquid crystals in an external magnetic field. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2011</b> , 111, 465-476	0.7	5
23	Waveguide Propagation of Light in Cholesterics with Large Pitch. <i>Molecular Crystals and Liquid Crystals</i> , <b>2001</b> , 359, 351-364		5
22	Simulation of multiple scattering in a medium with an anisotropic scattering pattern. <i>JETP Letters</i> , <b>2017</b> , 105, 283-288	1.2	4
21	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> , <b>2019</b> , 128, 396-406	1	4
20	Fluctuations in bounded cells of liquid crystals in an external field. <i>Journal of Experimental and Theoretical Physics</i> , <b>2001</b> , 93, 344-362	1	4
19	Effect of turning of rays on scattering of light in a layered medium. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2008</b> , 105, 591-610	0.7	3
18	Calculation of correlation function of the director fluctuations in cholesteric liquid crystals by WKB method. <i>Journal of Mathematical Physics</i> , <b>2004</b> , 45, 2420-2446	1.2	3
17	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> , <b>1999</b> , 148, 179-187	5.1	3
16	Light scattering on director fluctuations in smectic-A liquid crystals. <i>Physical Review E</i> , <b>1994</b> , 49, 4121-4132		3
15	Numerical simulation of photon density waves in a biophantom with foreign objects. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2015</b> , 119, 513-519	0.7	2

14	Influence of flexoelectric effect on the Fréedericksz transition in chiral nematic liquid crystals. <i>Physical Review E</i> , <b>2018</b> , 98, 012702	2.4	2
13	Field of a point source in a semi-infinite elastic medium. <i>Waves in Random and Complex Media</i> , <b>2012</b> , 22, 423-434	1.9	2
12	Effect of external field on coherent backscattering in nematics. <i>Optics Letters</i> , <b>2012</b> , 37, 656-8	3	2
11	Scattering of light in cholesteric liquid crystals with large pitch. <i>Physical Review E</i> , <b>2005</b> , 71, 051702	2.4	2
10	Bethe-Salpeter-based simulations of multiple scattering from bounded media. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1236, 012048	0.3	1
9	Extraordinary ray refraction in a large pitch helical medium. <i>Journal of Experimental and Theoretical Physics</i> , <b>2004</b> , 99, 965-977	1	1
8	Effect of flexoelectricity on the Fréedericksz transition in chiral nematics with negative dielectric anisotropy. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1141, 012147	0.3	1
7	Monte Carlo and Milne-like solutions for temporal correlation function in a wide temporal range. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2021</b> , 272, 107760	2.1	0
6	Optical Properties and Fluctuations in Liquid Crystals with One-Dimensional Large-Scale Periodicity <b>2003</b> , 518-534		
5	Superexponential Damping of Mean Field Propagating in Randomly Inhomogeneous Medium with Anomalously Large-Scale Nonuniformities. <i>Springer Proceedings in Physics</i> , <b>1992</b> , 150-158	0.2	
4	Propagation and scattering of light in stratified media <b>2010</b> , 104, 391		
3	SH-waveform modeling of small local seismic events in Ladoga lake. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	
2	The temporal correlation transfer in layered bio-models. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1425, 012173	0.3	
1	Electric field driven transformations of orientational structure in chiral nematic systems with large flexoelectricity. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1425, 012176	0.3	