

# Oleg Angelsky

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5011726/publications.pdf>

Version: 2024-02-01

79  
papers

1,455  
citations

331670

21  
h-index

330143

37  
g-index

80  
all docs

80  
docs citations

80  
times ranked

353  
citing authors

#	ARTICLE	IF	CITATIONS
1	Orbital rotation without orbital angular momentum: mechanical action of the spin part of the internal energy flow in light beams. Optics Express, 2012, 20, 3563.	3.4	116
2	On polarization metrology (estimation) of the degree of coherence of optical waves. Optics Express, 2009, 17, 15623.	3.4	100
3	Structured Light: Ideas and Concepts. Frontiers in Physics, 2020, 8, .	2.1	94
4	Self-diffraction of continuous laser radiation in a disperse medium with absorbing particles. Optics Express, 2013, 21, 8922.	3.4	84
5	Circular motion of particles suspended in a Gaussian beam with circular polarization validates the spin part of the internal energy flow. Optics Express, 2012, 20, 11351.	3.4	83
6	Investigation of optical currents in coherent and partially coherent vector fields. Optics Express, 2011, 19, 660.	3.4	78
7	Structured Light Control and Diagnostics Using Optical Crystals. Frontiers in Physics, 2021, 9, .	2.1	75
8	On the feasibility for determining the amplitude zeroes in polychromatic fields. Optics Express, 2005, 13, 4396.	3.4	71
9	Feasibility of estimating the degree of coherence of waves at the near field. Applied Optics, 2009, 48, 2784.	2.1	68
10	Interference diagnostics of white-light vortices. Optics Express, 2005, 13, 8179.	3.4	62
11	Self-action of continuous laser radiation and Pearcey diffraction in a water suspension with light-absorbing particles. Optics Express, 2014, 22, 2267.	3.4	60
12	Optical correlation algorithm for reconstructing phase skeleton of complex optical fields for solving the phase problem. Optics Express, 2014, 22, 6186.	3.4	59
13	Scattering of inhomogeneous circularly polarized optical field and mechanical manifestation of the internal energy flows. Physical Review A, 2012, 86, .	2.5	56
14	Measurement of small light absorption in microparticles by means of optically induced rotation. Optics Express, 2015, 23, 7152.	3.4	56
15	Controllable generation and manipulation of micro-bubbles in water with absorptive colloid particles by CW laser radiation. Optics Express, 2017, 25, 5232.	3.4	56
16	Peculiarities of control of erythrocytes moving in an evanescent field. Journal of Biomedical Optics, 2019, 24, 1.	2.6	56
17	Influence of evanescent wave on birefringent microplates. Optics Express, 2017, 25, 2299.	3.4	53
18	Statistical, Correlation, and Topological Approaches in Diagnostics of the Structure and Physiological State of Birefringent Biological Tissues. Series in Medical Physics and Biomedical Engineering, 2010, , 283-322.	0.1	45

#	ARTICLE	IF	CITATIONS
19	Peculiarities of Energy Circulation in Evanescent Field. Application for Red Blood Cells. Optical Memory and Neural Networks (Information Optics), 2019, 28, 11-20.	1.0	44
20	Extraordinary Manifestation of Evanescent Wave in Biomedical Application. Frontiers in Physics, 2020, 8, .	2.1	32
21	Low-temperature laser-stimulated controllable generation of micro-bubbles in a water suspension of absorptive colloid particles. Optics Express, 2018, 26, 13995.	3.4	29
22	Monte Carlo modeling of ferromagnetism of nano-graphene monolayer within Ising model. Journal of Magnetism and Magnetic Materials, 2019, 492, 165617.	2.3	10
23	Random object optical field diagnostics by using carbon nanoparticles. Optics Express, 2021, 29, 916.	3.4	10
24	Microscopic analysis of the energy, momentum, and spin distributions in a surface plasmon-polariton wave. Optical Materials Express, 2021, 11, 2165.	3.0	8
25	Enhancement of light depolarization by random ensembles of titania-based low-dimensional nanoparticles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 152, 37-44.	2.3	6
26	Current Trends in Development of Optical Metrology. Optical Memory and Neural Networks (Information Optics), 2020, 29, 269-292.	1.0	6
27	The degree of mutual anisotropy of biological liquids polycrystalline nets as a parameter in diagnostics and differentiations of hominal inflammatory processes. Proceedings of SPIE, 2011, , .	0.8	5
28	Biaxial crystal-based optical tweezers. Ukrainian Journal of Physical Optics, 2010, 11, 99.	13.0	5
29	Correlation optics in progress: introduction to the feature issue. Applied Optics, 2014, 53, CO1.	1.8	4
30	Editorial: Singular and Correlation Optics. Frontiers in Physics, 2021, 9, .	2.1	4
31	Laser metrology of statistical and fractal structure of biological tissues polarization images. , 2007, , .		3
32	Circular motion of particles by the help of the spin part of the internal energy flow. , 2013, , .		3
33	On polarization manifestations of correlation (intrinsic coherence) of optical fields. , 2009, , .		2
34	Properties of 2D hexagonal spin-crossover nanosystem: a Monte Carlo study. Applied Nanoscience (Switzerland), 2020, 10, 4487-4493.	3.1	2
35	Gold nanoparticles motion controlled by transverse spin momentum of evanescent waves in biomedical applications. , 2019, , .		2
36	Emerging Correlation Optics. Applied Optics, 2012, 51, CO1.	1.8	1

#	ARTICLE	IF	CITATIONS
37	Some current trends of correlation optics metrology of coherence and polarization. Applied Optics, 2012, 51, C100.	1.8	1
38	Some current views on the origins and prospects of correlation optics. Applied Optics, 2016, 55, B36.	1.8	1
39	A tribute to Marat Soskin. Journal of Optics (United Kingdom), 2021, 23, 050201.	2.2	1
40	Controlling and manipulation of red blood cells by evanescent waves. Optica Applicata, 2019, 49, .	0.2	1
41	Experimental demonstration of nanoparticles motion by the vertical spin of the evanescent wave action in biological media. , 2018, , .		1
42	Magnetic properties of single-walled carbon nanotube with mixed spins: Monte Carlo study. , 2020, , .		1
43	Polarization structure of biological tissues speckle-images. , 2006, 6341, 36.		0
44	Polarization singularities of biological objects speckle-fields. , 2006, , .		0
45	<title>Polarization singularities of biological objects speckle-fields</title>. , 2007, , .		0
46	The electromagnetic degree of coherence in the near field. , 2009, , .		0
47	Coloring effects of a beam traversing a light-scattering medium. Proceedings of SPIE, 2009, , .	0.8	0
48	Optical currents in coherent and partially coherent vector fields. , 2010, , .		0
49	On feasibilities of the use of spatial polarization modulation for estimating coherence of optical fields. , 2010, , .		0
50	About methods of estimating the correlation properties of circularly-polarized and linearly-polarized plane waves. , 2010, , .		0
51	Interference measuring of structure characteristics of turbulence. , 2011, , .		0
52	The mechanical action of the spin part of the internal energy flow. , 2012, , .		0
53	Optical tweezers based on polarization interferometer. , 2013, , .		0
54	Self-focusing of laser beam in dispersed medium. Proceedings of SPIE, 2013, , .	0.8	0

#	ARTICLE	IF	CITATIONS
55	Generation of shock waves in a medium with absorbing particles. Proceedings of SPIE, 2014, , .	0.8	0
56	Diagnostics of dispersed media using generating shock waves. , 2015, , .		0
57	Self-action of continuous laser radiation in a water suspension with light-absorbing particles. Proceedings of SPIE, 2015, , .	0.8	0
58	Changing image of correlation optics: introduction. Applied Optics, 2016, 55, CO1.	1.8	0
59	Mechanical action of the transverse spin flows in evanescent fields. Proceedings of SPIE, 2016, , .	0.8	0
60	The use of 2D Hilbert transform for phase retrieval of speckle fields. , 2016, , .		0
61	Formation of optical energy flows using the biaxial crystal. , 2017, , .		0
62	Laser controllable generation and manipulation of micro-bubbles in water. , 2018, , .		0
63	Anomalous light absorption by a monolayer graphene-water complex. , 2018, , .		0
64	Comparison of the orbital and spin rotation of a dielectric particle. , 2018, , .		0
65	Controlling of gold nanoparticles by the vertical spin of an evanescent wave in biomedical applications. , 2018, , .		0
66	Absorption of light by a monolayer graphene-water complex. , 2018, , .		0
67	Manipulation of micro-bubbles in water by CW laser. , 2018, , .		0
68	Study of magnetic properties of a nano-graphene monolayer within Ising ferromagnetic model with mixed spins. , 2019, , .		0
69	Self-converging and multiplex optical traps. , 2019, , .		0
70	Using of carbon nanoparticles for correlation analysis of speckle fields. , 2020, , .		0
71	Using carbon nanoparticles for reconstruction of optical speckle field structure. , 2020, , .		0
72	Some trends in optical metrology. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
73	Evanescent waves: extraordinary manifestation in biomedical application. , 2020, , .		0
74	Control surface roughness of mirror. , 2020, , .		0
75	High-precision interference measurements of phase shift between orthogonal linear polarized beams at total internal reflection. , 2020, , .		0
76	Monte Carlo simulation of magnetic properties of AA and AB stacked nano-graphene bilayer within Ising-like model. , 2020, , .		0
77	Structured light: peculiar properties and applications. , 2020, , .		0
78	Computer simulation of erythrocytes motion in evanescent field. , 2020, , .		0
79	New Trends of Optical Measurements. , 0, , .		0