

# Mikhail Vasnetsov

## List of Publications by Year in Descending Order

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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.

69

papers

3,655

citations

22

h-index

60

g-index

74

ext. papers

4,397

ext. citations

2.1

avg, IF

4.68

L-index

#	Paper	IF	Citations
69	Luminescence peculiarities of polyamide-6 Band I forms. <i>Applied Physics B: Lasers and Optics</i> , <b>2021</b> , 127, 1	1.9	1
68	Light pulse propagation in a double prism layout close to the angle of total internal reflection. <i>Journal of Optics (United Kingdom)</i> , <b>2020</b> , 22, 075602	1.7	
67	Optical vortex generated with an asymmetric forked grating. <i>Journal of Optics (United Kingdom)</i> , <b>2020</b> , 22, 104001	1.7	0
66	Observation of room-temperature afterglow in Polyamide-6 under UV excitation. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , <b>2019</b> , 22, 333-337	0.4	2
65	Electrical control of nanoparticles arrays created via topological defect lines design in anisotropic fluids. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 267, 297-302	6	1
64	Recollections of Professor Yuriy Reznikov. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 267, 11-28	6	0
63	Photonic Bandgap Deformation in a Nonideal Synthetic Opal Photonic Crystal. <i>Journal of Experimental and Theoretical Physics</i> , <b>2018</b> , 126, 579-591	1	2
62	A Monstar portrait in the interior. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 034003	1.7	10
61	Topological configurations of cross-coupled polarization singularities in a space-variant vector field. <i>Optics Communications</i> , <b>2016</b> , 363, 181-187	2	9
60	Temporal Characteristics of Afterglow in Artificial Opal. <i>Ukrainian Journal of Physics</i> , <b>2016</b> , 61, 795-799	0.4	1
59	Linear and nonlinear optics of synthetic opal <b>2016</b> ,		1
58	Light manipulation of nanoparticles in arrays of topological defects. <i>Scientific Reports</i> , <b>2016</b> , 6, 20742	4.9	17
57	Luminescence response of synthetic opal under femtosecond laser pumping. <i>Journal of Luminescence</i> , <b>2015</b> , 166, 233-237	3.8	5
56	Formation of liquid-crystal cholesteric pitch in the centimeter range. <i>Physical Review E</i> , <b>2014</b> , 89, 022503	2.4	5
55	Phase-resolved structure of a disclination in a liquid-crystal cell. <i>Optics Communications</i> , <b>2014</b> , 329, 129-134	2	
54	Photonic bandgap examination in an immersed synthetic opal. <i>Applied Physics B: Lasers and Optics</i> , <b>2014</b> , 116, 541-548	1.9	6
53	Disclination Line in ECell as an Indicator of Liquid Crystal Chirality. <i>Molecular Crystals and Liquid Crystals</i> , <b>2013</b> , 575, 57-63	0.5	4

52	Observation of polarization conflict caused by geometrical phase in a twisted nematic liquid crystal cell. <i>Optics Letters</i> , <b>2011</b> , 36, 2134-6	3	9
51	Lasing by Second-Order Bragg Diffraction in Dye-Doped POLIPHEM Gratings. <i>Molecular Crystals and Liquid Crystals</i> , <b>2010</b> , 516, 159-166	0.5	11
50	Optical vortex generation with a fork hologram under conditions of high-angle diffraction. <i>Optics Communications</i> , <b>2010</b> , 283, 2006-2016	2	27
49	Generation of optical vortices by the periodic motion of a monochromatic source and its radiation spectrum. <i>Journal of Optics</i> , <b>2009</b> , 11, 094007		1
48	Influence of the periodic motion of a monochromatic light source on the spectrum of its radiation. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2009</b> , 106, 108-113	0.7	
47	Oscillations conditions in a gain grating in the Bragg diffraction regime. <i>Optics Communications</i> , <b>2009</b> , 282, 2028-2031	2	3
46	Coupled-wave analysis of second-order Bragg diffraction I Reflection-type phase gratings. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2009</b> , 26, 684	1.7	8
45	Coupled-wave analysis of second-order Bragg diffraction II Threshold conditions for distributed-feedback laser oscillations. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2009</b> , 26, 1975	1.7	5
44	First Approach to the Analysis of the Lasing Conditions in POLIPHEM Structures. <i>Molecular Crystals and Liquid Crystals</i> , <b>2008</b> , 488, 135-147	0.5	5
43	Structure of the axial intensity minima in the Fresnel diffraction on a circular opening and superluminescent effects. <i>Optics Communications</i> , <b>2007</b> , 271, 316-322	2	2
42	Observation of superluminal wave-front propagation at the shadow area behind an opaque disk. <i>Optics Letters</i> , <b>2007</b> , 32, 1830-2	3	13
41	Centrifugal transformation of the transverse structure of freely propagating paraxial light beams. <i>Optics Letters</i> , <b>2006</b> , 31, 694-6	3	14
40	Angular momentum of optical vortex arrays. <i>Optics Express</i> , <b>2006</b> , 14, 938-49	3.3	35
39	Description of the morphology of optical vortices using the orbital angular momentum and its components. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2006</b> , 100, 910-915 <sup>0.7</sup>		12
38	Angular momentum of a rotating light beam. <i>Optics Communications</i> , <b>2005</b> , 249, 367-378	2	42
37	Spatial dependence of the frequency spectrum of a rotating optical beam. <i>JETP Letters</i> , <b>2005</b> , 81, 567-570 <sup>2</sup>		1
36	Analysis of orbital angular momentum of a misaligned optical beam. <i>New Journal of Physics</i> , <b>2005</b> , 7, 46-46	2.9	97
35	Increasing the data density of free-space optical communications using orbital angular momentum <b>2004</b> , 5550, 367		18

34	An optical vortex as a rotating body: mechanical features of a singular light beam. <i>Journal of Optics</i> , <b>2004</b> , 6, S170-S174		27
33	Transformation of higher-order optical vortices upon focusing by an astigmatic lens. <i>Optics Communications</i> , <b>2004</b> , 241, 237-247	2	81
32	Synthesis and analysis of optical vortices with fractional topological charges. <i>Journal of Optics</i> , <b>2004</b> , 6, S166-S169		85
31	Free-space information transfer using light beams carrying orbital angular momentum. <i>Optics Express</i> , <b>2004</b> , 12, 5448-56	3.3	1631
30	Manifestation of the rotational Doppler effect by use of an off-axis optical vortex beam. <i>Optics Letters</i> , <b>2003</b> , 28, 1185-7	3	48
29	Observation of the orbital angular momentum spectrum of a light beam. <i>Optics Letters</i> , <b>2003</b> , 28, 2285-7		63
28	Optical vortex symmetry breakdown and decomposition of the orbital angular momentum of light beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2003</b> , 20, 1635-43	1.8	74
27	Transformation of the orbital angular momentum of a beam with optical vortex in an astigmatic optical system. <i>JETP Letters</i> , <b>2002</b> , 75, 127-130	1.2	32
26	Observation of the rotational doppler effect for optical beams with helical wave front using spiral zone plate. <i>JETP Letters</i> , <b>2002</b> , 76, 486-489	1.2	24
25	Mode separator for a beam with an off-axis optical vortex. <i>Quantum Electronics</i> , <b>2001</b> , 31, 464-466	1.8	14
24	Self-reconstruction of an optical vortex. <i>JETP Letters</i> , <b>2000</b> , 71, 130-133	1.2	59
23	Wavefront motion in the vicinity of a phase dislocation: "optical vortex" <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2000</b> , 88, 260-265	0.7	30
22	Structure of an edge-dislocation wave originating in plane-wave diffraction by a half-plane. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2000</b> , 17, 2199-207	1.8	28
21	Nonlinear singular optics. <i>Journal of Optics</i> , <b>1998</b> , 7, 301-311		30
20	Laser-Induced Nonlinear Gaussian Lens in Liquid Crystal Cell Gives Birth to Optical Vortices. <i>Molecular Crystals and Liquid Crystals</i> , <b>1998</b> , 324, 25-30		5
19	Self-Excitation of Space Charge Waves. <i>Physical Review Letters</i> , <b>1997</b> , 79, 67-70	7.4	21
18	Birth, Evolution and Annihilation of Phase Singularities in the Propagation of a Laser Beam Passed Through a Self-Focusing Strontium Barium Niobate Crystal. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>1997</b> , 06, 169-180	0.8	18
17	Topological charge and angular momentum of light beams carrying optical vortices. <i>Physical Review A</i> , <b>1997</b> , 56, 4064-4075	2.6	372

16	Phase modulation spectroscopy of space-charge wave resonances in Bi <sub>12</sub> SiO <sub>20</sub> . <i>Optics Communications</i> , <b>1997</b> , 137, 181-191	2	10
15	Dynamic spatial structure of spontaneous beams in photorefractive bismuth silicon oxide. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1996</b> , 13, 2595	1.7	15
14	Birth and evolution of wave-front dislocations in a laser beam passed through a photorefractive LiNbO <sub>3</sub> : Fe crystal. <i>Applied Physics B: Lasers and Optics</i> , <b>1996</b> , 62, 465-471	1.9	35
13	Optical wavefront dislocations and their properties. <i>Optics Communications</i> , <b>1995</b> , 119, 604-612	2	225
12	Nonlinear grating interaction in photorefractive Bi <sub>12</sub> SiO <sub>20</sub> . <i>Applied Physics Letters</i> , <b>1995</b> , 66, 792-794	3.4	10
11	Relations between spontaneously occurring beams in bismuth silicon oxide with two frequency-detuned pump beams. <i>Optics Letters</i> , <b>1995</b> , 20, 2363	3	12
10	Nonlinear combinations of gratings in Bi <sub>12</sub> SiO <sub>20</sub> : theory and experiments. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 1422	1.7	23
9	Phase Defects in a Phase-conjugate Photorefractive-gain Oscillator. <i>Journal of Modern Optics</i> , <b>1994</b> , 41, 807-816	1.1	4
8	Mutually pumped coherent oscillator in photorefractive crystals with a local nonlinear response. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1993</b> , 10, 1408	1.7	3
7	Screw Dislocations in Light Wavefronts. <i>Journal of Modern Optics</i> , <b>1992</b> , 39, 985-990	1.1	278
6	Phase-matched light-induced scattering, mirrorless self-oscillation, and generation of nearly retropropagating waves in LiNbO <sub>3</sub> :Fe in forbidden interaction geometry. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , <b>1992</b> , 55, 509-512		4
5	Optical instability in noncollinear second-harmonic generation. <i>Optics Letters</i> , <b>1991</b> , 16, 542-4	3	
4	Dynamics of laser-induced bubble and free-surface oscillations in an absorbing liquid. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , <b>1989</b> , 49, 485-489		11
3	Grazing Diffraction by Volume Phase Gratings. <i>Optica Acta</i> , <b>1985</b> , 32, 891-899		7
2	Laser beams with screw dislocations in their wavefronts		3
1	Vortex Flow of Light: Spin and Orbital Flows in a Circularly Polarized Paraxial Beam		13-24 6