

Mikhail Vasnetsov

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6527545/mikhail-vasnetsov-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Free-space information transfer using light beams carrying orbital angular momentum. <i>Optics Express</i> , 2004 , 12, 5448-56	3.3	1631
68	Topological charge and angular momentum of light beams carrying optical vortices. <i>Physical Review A</i> , 1997 , 56, 4064-4075	2.6	372
67	Screw Dislocations in Light Wavefronts. <i>Journal of Modern Optics</i> , 1992 , 39, 985-990	1.1	278
66	Optical wavefront dislocations and their properties. <i>Optics Communications</i> , 1995 , 119, 604-612	2	225
65	Analysis of orbital angular momentum of a misaligned optical beam. <i>New Journal of Physics</i> , 2005 , 7, 46-46	2.9	97
64	Synthesis and analysis of optical vortices with fractional topological charges. <i>Journal of Optics</i> , 2004 , 6, S166-S169		85
63	Transformation of higher-order optical vortices upon focusing by an astigmatic lens. <i>Optics Communications</i> , 2004 , 241, 237-247	2	81
62	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> , 2003 , 20, 1635-43	4.8	74
61	Observation of the orbital angular momentum spectrum of a light beam. <i>Optics Letters</i> , 2003 , 28, 2285-7		63
60	Self-reconstruction of an optical vortex. <i>JETP Letters</i> , 2000 , 71, 130-133	1.2	59
59	Manifestation of the rotational Doppler effect by use of an off-axis optical vortex beam. <i>Optics Letters</i> , 2003 , 28, 1185-7	3	48
58	Angular momentum of a rotating light beam. <i>Optics Communications</i> , 2005 , 249, 367-378	2	42
57	Angular momentum of optical vortex arrays. <i>Optics Express</i> , 2006 , 14, 938-49	3.3	35
56	Birth and evolution of wave-front dislocations in a laser beam passed through a photorefractive LiNbO ₃ : Fe crystal. <i>Applied Physics B: Lasers and Optics</i> , 1996 , 62, 465-471	1.9	35
55	Transformation of the orbital angular momentum of a beam with optical vortex in an astigmatic optical system. <i>JETP Letters</i> , 2002 , 75, 127-130	1.2	32
54	Nonlinear singular optics. <i>Journal of Optics</i> , 1998 , 7, 301-311		30
53	Wavefront motion in the vicinity of a phase dislocation: Optical vortex. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2000 , 88, 260-265	0.7	30

52	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> , 2000 , 17, 2199-207	1.8	28
51	Optical vortex generation with a fork hologram under conditions of high-angle diffraction. <i>Optics Communications</i> , 2010 , 283, 2006-2016	2	27
50	An optical vortex as a rotating body: mechanical features of a singular light beam. <i>Journal of Optics</i> , 2004 , 6, S170-S174		27
49	Observation of the rotational doppler effect for optical beams with helical wave front using spiral zone plate. <i>JETP Letters</i> , 2002 , 76, 486-489	1.2	24
48	Nonlinear combinations of gratings in Bi ₁₂ SiO ₂₀ : theory and experiments. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1995 , 12, 1422	1.7	23
47	Self-Excitation of Space Charge Waves. <i>Physical Review Letters</i> , 1997 , 79, 67-70	7.4	21
46	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> , 1997 , 06, 169-180	0.8	18
45	Increasing the data density of free-space optical communications using orbital angular momentum 2004 , 5550, 367		18
44	Light manipulation of nanoparticles in arrays of topological defects. <i>Scientific Reports</i> , 2016 , 6, 20742	4.9	17
43	Dynamic spatial structure of spontaneous beams in photorefractive bismuth silicon oxide. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996 , 13, 2595	1.7	15
42	Centrifugal transformation of the transverse structure of freely propagating paraxial light beams. <i>Optics Letters</i> , 2006 , 31, 694-6	3	14
41	Mode separator for a beam with an off-axis optical vortex. <i>Quantum Electronics</i> , 2001 , 31, 464-466	1.8	14
40	Observation of superluminal wave-front propagation at the shadow area behind an opaque disk. <i>Optics Letters</i> , 2007 , 32, 1830-2	3	13
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> , 2006 , 100, 910-915 ^{0.7}		12
38	Relations between spontaneously occurring beams in bismuth silicon oxide with two frequency-detuned pump beams. <i>Optics Letters</i> , 1995 , 20, 2363	3	12
37	Lasing by Second-Order Bragg Diffraction in Dye-Doped POLIPHEM Gratings. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 516, 159-166	0.5	11
36	Dynamics of laser-induced bubble and free-surface oscillations in an absorbing liquid. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1989 , 49, 485-489		11
35	A Monstar portrait in the interior. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 034003	1.7	10

34	Phase modulation spectroscopy of space-charge wave resonances in Bi12SiO20. <i>Optics Communications</i> , 1997 , 137, 181-191	2	10
33	Nonlinear grating interaction in photorefractive Bi12SiO20. <i>Applied Physics Letters</i> , 1995 , 66, 792-794	3.4	10
32	Topological configurations of cross-coupled polarization singularities in a space-variant vector field. <i>Optics Communications</i> , 2016 , 363, 181-187	2	9
31	Observation of polarization conflict caused by geometrical phase in a twisted nematic liquid crystal cell. <i>Optics Letters</i> , 2011 , 36, 2134-6	3	9
30	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> , 2009 , 26, 684	1.7	8
29	Grazing Diffraction by Volume Phase Gratings. <i>Optica Acta</i> , 1985 , 32, 891-899		7
28	Photonic bandgap examination in an immersed synthetic opal. <i>Applied Physics B: Lasers and Optics</i> , 2014 , 116, 541-548	1.9	6
27	Vortex Flow of Light: Spin and Orbital Flows in a Circularly Polarized Paraxial Beam		6
26	Luminescence response of synthetic opal under femtosecond laser pumping. <i>Journal of Luminescence</i> , 2015 , 166, 233-237	3.8	5
25	Formation of liquid-crystal cholesteric pitch in the centimeter range. <i>Physical Review E</i> , 2014 , 89, 022503	2.4	5
24	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> , 2009 , 26, 1975	1.7	5
23	First Approach to the Analysis of the Lasing Conditions in POLIPHEN Structures. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 488, 135-147	0.5	5
22	Laser-Induced Nonlinear Gaussian Lens in Liquid Crystal Cell Gives Birth to Optical Vortices. <i>Molecular Crystals and Liquid Crystals</i> , 1998 , 324, 25-30		5
21	Disclination Line in ECell as an Indicator of Liquid Crystal Chirality. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 575, 57-63	0.5	4
20	Phase Defects in a Phase-conjugate Photorefractive-gain Oscillator. <i>Journal of Modern Optics</i> , 1994 , 41, 807-816	1.1	4
19	Phase-matched light-induced scattering, mirrorless self-oscillation, and generation of nearly retropropagating waves in LiNbO3:Fe in Forbidden Interaction geometry. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1992 , 55, 509-512		4
18	Oscillations conditions in a gain grating in the Bragg diffraction regime. <i>Optics Communications</i> , 2009 , 282, 2028-2031	2	3
17	Mutually pumped coherent oscillator in photorefractive crystals with a local nonlinear response. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1993 , 10, 1408	1.7	3

16	Laser beams with screw dislocations in their wavefronts		3
15	Structure of the axial intensity minima in the Fresnel diffraction on a circular opening and superluminous effects. <i>Optics Communications</i> , 2007 , 271, 316-322	2	2
14	Observation of room-temperature afterglow in Polyamide-6 under UV excitation. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2019 , 22, 333-337	0.4	2
13	Photonic Bandgap Deformation in a Nonideal Synthetic Opal Photonic Crystal. <i>Journal of Experimental and Theoretical Physics</i> , 2018 , 126, 579-591	1	2
12	Electrical control of nanoparticles arrays created via topological defect lines design in anisotropic fluids. <i>Journal of Molecular Liquids</i> , 2018 , 267, 297-302	6	1
11	Generation of optical vortices by the periodic motion of a monochromatic source and its radiation spectrum. <i>Journal of Optics</i> , 2009 , 11, 094007		1
10	Spatial dependence of the frequency spectrum of a rotating optical beam. <i>JETP Letters</i> , 2005 , 81, 567-570		1
9	Temporal Characteristics of Afterglow in Artificial Opal. <i>Ukrainian Journal of Physics</i> , 2016 , 61, 795-799	0.4	1
8	Luminescence peculiarities of polyamide-6 and forms. <i>Applied Physics B: Lasers and Optics</i> , 2021 , 127, 1	1.9	1
7	Linear and nonlinear optics of synthetic opal 2016 ,		1
6	Optical vortex generated with an asymmetric forked grating. <i>Journal of Optics (United Kingdom)</i> , 2020 , 22, 104001	1.7	0
5	Recollections of Professor Yuriy Reznikov. <i>Journal of Molecular Liquids</i> , 2018 , 267, 11-28	6	0
4	Light pulse propagation in a double prism layout close to the angle of total internal reflection. <i>Journal of Optics (United Kingdom)</i> , 2020 , 22, 075602	1.7	
3	Phase-resolved structure of a disclination in a liquid-crystal cell. <i>Optics Communications</i> , 2014 , 329, 129-134	2	
2	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> , 2009 , 106, 108-113	0.7	
1	Optical instability in noncollinear second-harmonic generation. <i>Optics Letters</i> , 1991 , 16, 542-4	3	