Olga Borovkova

List of Publications by Year in descending order

47 papers	626 citations	623734 14 h-index	580821 25 g-index
48 all docs	48 docs citations	48 times ranked	387 citing authors

#	Article	IF	Citations
1	Bright solitons from defocusing nonlinearities. Physical Review E, 2011, 84, 035602.	2.1	109
2	Algebraic bright and vortex solitons in defocusing media. Optics Letters, 2011, 36, 3088.	3.3	82
3	TMOKE as efficient tool for the magneto-optic analysis of ultra-thin magnetic films. Applied Physics Letters, 2018, 112, .	3.3	52
4	Faraday rotation in iron garnet films beyond elemental substitutions. Optica, 2019, 6, 642.	9.3	43
5	High-Q surface electromagnetic wave resonance excitation in magnetophotonic crystals for supersensitive detection of weak light absorption in the near-infrared. Photonics Research, 2020, 8, 57.	7.0	43
6	Solitons supported by spatially inhomogeneous nonlinear losses. Optics Express, 2012, 20, 2657.	3.4	35
7	Transverse magneto-optical Kerr effect in active magneto-plasmonic structures. Optics Letters, 2016, 41, 4593.	3.3	27
8	Stable bright and vortex solitons in photonic crystal fibers with inhomogeneous defocusing nonlinearity. Optics Letters, 2012, 37, 1799.	3.3	26
9	Rotating vortex solitons supported by localized gain. Optics Letters, 2011, 36, 1936.	3.3	23
10	Magnetoplasmonic structures with broken spatial symmetry for light control at normal incidence. Physical Review B, 2020, 102, .	3.2	20
11	Transverse magneto-optical Kerr effect at narrow optical resonances. Nanophotonics, 2019, 8, 287-296.	6.0	19
12	Stabilization of two-dimensional solitons in cubic-saturable nonlinear lattices. Physical Review A, 2010, 81, .	2.5	18
13	Vortex twins and anti-twins supported by multiring gain landscapes. Optics Letters, 2011, 36, 3783.	3.3	15
14	Solitons supported by singular spatial modulation of the Kerr nonlinearity. Physical Review A, 2012, 85, .	2.5	15
15	Stable vortex-soliton tori with multiple nested phase singularities in dissipative media. Physical Review A, 2012, 85, .	2.5	13
16	Stable nonlinear amplification of solitons without gain saturation. Europhysics Letters, 2012, 97, 44003.	2.0	13
17	Dissipative quadratic solitons supported by a localized gain. Physical Review A, 2014, 90, .	2.5	11
18	General quasi-nonspreading linear three-dimensional wave packets. Optics Letters, 2011, 36, 2176.	3.3	10

#	Article	IF	Citations
19	Fundamental and vortex dissipative quadratic solitons supported by spatially localized gain. Physical Review A, 2022, 105, .	2.5	8
20	Two-dimensional vector solitons stabilized by a linear or nonlinear lattice acting in one component. Europhysics Letters, 2010, 92, 64001.	2.0	6
21	Multiperiodic magnetoplasmonic gratings fabricated by the pulse force nanolithography. Optics Letters, 2021, 46, 4148.	3.3	6
22	Generation of vector flat-top solitons and hybrid brightâ€“flat-top soliton complexes in optical microresonators via modulated pump. Physical Review A, 2021, 104, .	2.5	6
23	Transverse magneto-photonic transmission effect in non-symmetric nanostructures with comb-like plasmonic gratings. Optical Materials Express, 2022, 12, 573.	3.0	5
24	Topological light bullets supported by spatiotemporal gain. Physical Review A, 2012, 85, .	2.5	4
25	Dynamic versus Anderson wave-packet localization. Physical Review A, 2015, 91, .	2.5	4
26	Spectrally Selective Detection of Short Spin Waves in Magnetoplasmonic Nanostructures via the Magneto-Optical Intensity Effect. Nanomaterials, 2022, 12, 405.	4.1	4
27	Layer-selective magnetization switching in the chirped photonic crystal with GdFeCo. Scientific Reports, 2021, 11, 2239.	3.3	3
28	Cascaded induced lattices in quadratic nonlinear medium. Proceedings of SPIE, 2008, , .	0.8	1
29	Controllable discrete diffraction in cascade-induced waveguides. Quantum Electronics, 2009, 39, 1050-1054.	1.0	1
30	Spatio-temporal hybrid Anderson localization. Europhysics Letters, 2014, 108, 64002.	2.0	1
31	Enhancement of the Magneto-Optical Response in Ultra-Thin Ferromagnetic Films and Its Registration Using the Transverse Magneto-Optical Kerr Effect. Bulletin of the Russian Academy of Sciences: Physics, 2019, 83, 881-883.	0.6	1
32	Excitation of two-dimensional soliton matrices by fundamental Gaussian beams. Quantum Electronics, 2005, 35, 65-68.	1.0	0
33	<title>Spatial optical periodic structures in quadratically nonlinear media</title>. , 2007, , .		0
34	Discrete diffraction in a cascade-induced anisotropic lattice. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2008, 63, 430-432.	0.4	0
35	The propagation of wave beams in 2D cascade-induced lattices. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 1571-1574.	0.6	0
36	Anderson localization of multichannel excitations in disordered two-dimensional waveguide arrays. Europhysics Letters, 2015, 109, 54001.	2.0	0

#	Article	IF	Citations
37	An amplification of the magneto-optical effects in the magneto-plasmonic structures with gain. , 2016, , .		0
38	SPR sensor with ultranarrow magnetoplasmonic resonance. , 2016, , .		0
39	Excitonic enhancement of the transverse magneto-optical Kerr effect in semiconductor nanostructures. , 2017, , .		0
40	Plasmon-excitonic Enhancement of the Transverse Magneto-Optical Kerr effect in the Semiconductor Magnetic Nanostructures. , 2018, , .		0
41	The Transverse Magneto-Optical Kerr Effect in a Plasmonic Structure with Non-Symmetric Nanoparticles. , 2018, , .		0
42	Transverse Magneto-Optical Intensity Effect in Non-symmetric Plasmonic Nanostructures. , 2019, , .		0
43	Enhanced Magneto-Optic Response of the Ultrathin Iron-Garnet Films. , 2019, , .		0
44	Fundamental and Vortex Dissipative Quadratic Solitons Supported by Localized Gain. , 2021, , .		0
45	Transverse Magneto-optical Effect in Asymmetric Plasmonic Nanostructures. , 2020, , .		0
46	Tunable Inverse Faraday effect in the Photonic Crystal Nanostructures with the Magnetic Layer of Gradient Thickness. , 2020, , .		0
47	Magneto-Optical Effects in Nanostructures with Spatial Modulation of Magnetization. Bulletin of the Russian Academy of Sciences: Physics, 2022, 86, 182-185.	0.6	0