

Denis V Novitsky

List of Publications by Citations

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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.

51
papers

421
citations

11
h-index

18
g-index

62
ext. papers

499
ext. citations

2.1
avg, IF

4.37
L-index

#	Paper	IF	Citations
51	Negative propagation of vector Bessel beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007 , 24, 2844-9	1.8	78
50	Nonparaxial Airy beams: role of evanescent waves. <i>Optics Letters</i> , 2009 , 34, 3430-2	3	56
49	Compression of an intensive light pulse in photonic-band-gap structures with a dense resonant medium. <i>Physical Review A</i> , 2009 , 79,	2.6	25
48	Femtosecond pulses in a dense two-level medium: Spectral transformations, transient processes, and collisional dynamics. <i>Physical Review A</i> , 2011 , 84,	2.6	24
47	PT symmetry breaking in multilayers with resonant loss and gain locks light propagation direction. <i>Physical Review B</i> , 2018 , 98,	3.3	19
46	Propagation of subcycle pulses in a two-level medium: Area-theorem breakdown and pulse shape. <i>Physical Review A</i> , 2012 , 86,	2.6	18
45	Controlled absorption and all-optical diode action due to collisions of self-induced-transparency solitons. <i>Physical Review A</i> , 2012 , 85,	2.6	16
44	Transmission enhancement in loss-gain multilayers by resonant suppression of reflection. <i>Physical Review B</i> , 2017 , 96,	3.3	13
43	Bistable behavior of reflection and transmission of a one-dimensional photonic crystal with a dense resonant medium as a defect. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 1362	1.7	13
42	Compression and collisions of chirped pulses in a dense two-level medium. <i>Optics Communications</i> , 2016 , 358, 202-207	2	11
41	Change of the size of vector Bessel beam rings under reflection. <i>Optics Communications</i> , 2008 , 281, 2727-2734	1.1	11
40	Nonlinear interaction of two trapped-mode resonances in a bilayer fish-scale metamaterial. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 2095	1.7	10
39	Local field effect as a function of pulse duration. <i>Physical Review A</i> , 2010 , 82,	2.6	10
38	Ultrashort pulses in an inhomogeneously broadened two-level medium: soliton formation and inelastic collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014 , 47, 095401	1.3	9
37	Pulse trapping inside a one-dimensional photonic crystal with relaxing cubic nonlinearity. <i>Physical Review A</i> , 2010 , 81,	2.6	9
36	Effects of pulse collisions in a multilayer system with noninstantaneous cubic nonlinearity. <i>Journal of Optics (United Kingdom)</i> , 2013 , 15, 035206	1.7	8
35	Asymmetric light transmission through a photonic crystal with relaxing Kerr nonlinearity. <i>Europhysics Letters</i> , 2012 , 99, 44001	1.6	7

34	Unambiguous scattering matrix for non-Hermitian systems. <i>Physical Review A</i> , 2020 , 101,	2.6	7
33	CPA-laser effect and exceptional points in \mathcal{PT} -symmetric multilayer structures. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 085101	1.7	6
32	Spectral transformations in the regime of pulse self-trapping in a nonlinear photonic crystal. <i>Physical Review A</i> , 2011 , 84,	2.6	6
31	Nonlocal homogenization of \mathcal{PT} -symmetric multilayered structures. <i>Physical Review A</i> , 2019 , 99,	2.6	5
30	Dynamics of DFB dye lasing by polarization modulation: simulations and experiment. <i>Laser Physics Letters</i> , 2016 , 13, 025002	1.5	5
29	Influence of an absorbing dielectric background on bistable response of a dense collection of two-level atoms. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 18	1.7	4
28	Effect of frequency detuning on pulse propagation in one-dimensional photonic crystal with a dense resonant medium: application to optical logic. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009 , 26, 1918	1.7	4
27	Disordered resonant media: Self-induced transparency versus light localization. <i>Physical Review A</i> , 2018 , 97,	2.6	3
26	Pulse propagation in one-dimensional disordered photonic crystals: interplay of disorder with instantaneous and relaxing nonlinearities. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 1282	1.7	3
25	Optical kinks and kink-kink and kink-pulse interactions in resonant two-level media. <i>Physical Review A</i> , 2017 , 95,	2.6	3
24	Asymmetric resonance in selective reflection: explanation via Fano-like mechanism. <i>Optics Letters</i> , 2011 , 36, 2002-4	3	3
23	SEARCH FOR THE OPTIMAL PARAMETERS OF RELAXING NONLINEARITY TO OBTAIN SELF-TRAPPING OF AN ULTRASHORT PULSE IN A PHOTONIC CRYSTAL. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2012 , 21, 1250010	0.8	3
22	Logic gate based on a one-dimensional photonic crystal containing quantum dots. <i>Journal of Applied Spectroscopy</i> , 2010 , 77, 232-237	0.7	3
21	Nondiffracting electromagnetic fields in inhomogeneous isotropic media. <i>Journal of Physics A</i> , 2006 , 39, 5227-5231		3
20	Displacement and localisation of a transparent nanosphere by light-pressure forces in the field of a focused laser beam. <i>Quantum Electronics</i> , 2017 , 47, 651-654	1.8	2
19	Diffusion-inspired time-varying phosphorescent decay in a nanostructured environment. <i>Physical Review B</i> , 2020 , 101,	3.3	2
18	Transport of a spherical transparent nanoparticle by radiation forces in the field of a Gaussian laser beam. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2016 , 120, 138-142	0.7	2
17	Asymmetric bistable reflection and polarization switching in a magnetic nonlinear multilayer structure. <i>Journal of Modern Optics</i> , 2014 , 61, 276-285	1.1	2

16	Disorder-induced light trapping enhanced by pulse collisions in one-dimensional nonlinear photonic crystals. <i>Optics Communications</i> , 2015 , 353, 56-62	2	2
15	Loss compensation symmetry in a multimode waveguide coupler. <i>Laser Physics Letters</i> , 2020 , 17, 116202	1.5	2
14	Controlling wave fronts with tunable disordered non-Hermitian multilayers. <i>Scientific Reports</i> , 2021 , 11, 4790	4.9	2
13	Quasibound states in the continuum induced by PT symmetry breaking. <i>Physical Review B</i> , 2021 , 104,	3.3	2
12	Different Regimes of Ultrashort Pulse Propagation in Disordered Layered Media with Resonant Loss and Gain. <i>Annalen Der Physik</i> , 2019 , 531, 1900080	2.6	1
11	Mechanism of the ordered particles arrangement in a concentration grating excited in the field of counter-propagating Gaussian beams. <i>Optics Communications</i> , 2019 , 451, 265-267	2	1
10	Recent development of conception of trapped modes in low-loss all-dielectric metamaterials 2017 ,		1
9	Kink-based mirrorless quasi-bistability in resonantly absorbing media. <i>Optics Letters</i> , 2020 , 45, 137	3	1
8	All-Optical Transmission Modulation Due to Inelastic Interactions of Ultrashort Pulses in a Disordered Resonant Medium. <i>Annalen Der Physik</i> , 2019 , 531, 1800405	2.6	1
7	Applicability of the Approximate Langevin Equation for Describing the Motion of Nanospheres in the Field of a Standing Light Wave. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2018 , 125, 944-947	0.7	1
6	Light dynamics in PT-symmetric multilayers: Phase transition, nonreciprocity, and propagation direction locking. <i>Journal of Physics: Conference Series</i> , 2018 , 1092, 012100	0.3	1
5	Bistability of an optical response of a photonic crystal with a dense resonant medium as a defect. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2008 , 104, 896-900	0.7	
4	Diffusion and Brownian Motion: On the Possibility to Control Diffusion of Small Particles with Laser Radiation. <i>Acta Physica Polonica A</i> , 2019 , 135, 326-331	0.6	
3	All-optical switching of pulse transmission in disordered resonant media. <i>Journal of Physics: Conference Series</i> , 2018 , 1092, 012099	0.3	
2	Transportation dynamics of dielectric particles with the gradient forces in the field of orthogonal standing laser waves. <i>Optics and Laser Technology</i> , 2021 , 143, 107300	4.2	
1	Bragg order effect on ultrashort pulse generation by distributed feedback dye lasers under subnanosecond excitation: Numerical study. <i>Optics and Laser Technology</i> , 2022 , 153, 108214	4.2	