

Igor V Dzedolik

List of Publications by Year in descending order

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39
papers

121
citations

1307594

7
h-index

1474206

9
g-index

40
all docs

40
docs citations

40
times ranked

69
citing authors

#	ARTICLE	IF	CITATIONS
1	Field-effect transistor based on surface plasmon polaritons. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 775.	1.5	12
2	All-optical logic gates based on nonlinear dielectric films. Ukrainian Journal of Physical Optics, 2008, 9, 187.	13.0	10
3	One-dimensional controllable photonic crystal. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2741.	2.1	9
4	Period variation of polariton waves in optical fiber. Journal of Optics, 2009, 11, 094012.	1.5	9
5	Formation of vortices by interference of surface plasmon polaritons. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1004.	1.5	9
6	Surface plasmon-polariton solitons and cnoidal waves at the boundary of dielectric crystal and metal. Journal of Optics (United Kingdom), 2014, 16, 125002.	2.2	8
7	Mass of polaritons in different dielectric media. Journal of Optics (United Kingdom), 2011, 13, 015204.	2.2	7
8	Control of plasmon-polariton vortices on the surface of a metal layer. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1420.	1.5	7
9	Nonlinear vector and scalar polariton waves in dielectric medium. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 843.	2.1	6
10	Polariton spectrum in nonlinear dielectric medium. Applied Optics, 2013, 52, 3073.	1.8	5
11	Transformation of the surface plasmon-polariton pulse to bright and dark solitons at the first and second harmonics. Journal of Optics (United Kingdom), 2013, 15, 044019.	2.2	5
12	Vortex lattice of surface plasmon polaritons. Journal of Optics (United Kingdom), 2016, 18, 074007.	2.2	5
13	Vortex Properties of a Photon Flux in a Dielectric Waveguide. Technical Physics, 2005, 50, 135.	0.7	3
14	Spontaneous symmetry breaking in an electromagnetic field-insulator system. Technical Physics, 2006, 51, 932-937.	0.7	3
15	Variation of spectral properties of dielectric ionic crystal in the terahertz range due to the polariton absorption. Applied Optics, 2014, 53, 3318.	1.8	3
16	Controlled flow of nonlinear surface plasmon polaritons. Journal of Optics (United Kingdom), 2020, 22, 075001.	2.2	3
17	Nonlinear modes in optical fibers. Technical Physics Letters, 2002, 28, 403-405.	0.7	2
18	Soliton formation from a gaussian pulse in an optical fiber. Technical Physics, 2002, 47, 713-719.	0.7	2

#	ARTICLE	IF	CITATIONS
19	Singular points in the electromagnetic field-waveguide system. Technical Physics Letters, 2003, 29, 194-196.	0.7	2
20	The topology of "vacuum" in a dielectric waveguide. Technical Physics Letters, 2003, 29, 284-286.	0.7	2
21	Control of polariton spectrum in bigyrotropic medium. Applied Optics, 2013, 52, 6112.	1.8	2
22	Optical vortex train dynamics in a medium with anomalous dispersion. , 1999, , .		1
23	<title>Formation of vortex soliton from pulse in optical fiber</title>. , 2001, , .		1
24	The energy of a photon flux in a dielectric waveguide. Technical Physics Letters, 2003, 29, 708-711.	0.7	1
25	Optical logic gate 'AND', controllable photon crystal. , 2007, , .		1
26	Splitting of an optical pulse as disintegration of a quasi-particle bunch in a transversely inhomogeneous dielectric medium. Journal of Optics, 2009, 11, 015704.	1.5	1
27	Topology of plasmon-polariton vortices on an adaptive mirror. Atmospheric and Oceanic Optics, 2017, 30, 203-208.	1.3	1
28	Transformation of sinusoidal electromagnetic and polarization waves into cnoidal waves in an optical fibre. Ukrainian Journal of Physical Optics, 2008, 9, 226.	13.0	1
29	<title>Compression and expansion of a guided vortex pulse in optical fibers</title>. , 2001, , .		0
30	<title>Envelope equations of guided vortex pulse in optical fibers</title>. , 2001, , .		0
31	<title>Vortex pulse interference</title>. , 2002, 4607, 104.		0
32	<title>Vortex soliton in parabolic optical fiber</title>. , 2002, , .		0
33	Helicons in an optical fiber. Technical Physics Letters, 2002, 28, 464-466.	0.7	0
34	<title>Optical pulse vortex stability in dielectric waveguides</title>. , 2003, , .		0
35	Three-dimensional solitary waves in dielectric medium. , 0, , .		0
36	Polariton Vortices in a Transparent Medium. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
37	Splitting of optical pulse as disintegration of quasi-particle bunch. , 2008, , .		0
38	<title>Vortices and spatial waves in polariton quasi-condensate</title>. , 2008, , .		0
39	Masses of polaritons. , 2010, , .		0