

# 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	Controlled flow of nonlinear surface plasmon polaritons. Journal of Optics (United Kingdom), 2020, 22, 075001.	2.2	3
2	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
3	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
4	Topology of plasmon-polariton vortices on an adaptive mirror. Atmospheric and Oceanic Optics, 2017, 30, 203-208.	1.3	1
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	Vortex lattice of surface plasmon polaritons. Journal of Optics (United Kingdom), 2016, 18, 074007.	2.2	5
7	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
8	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
9	Polariton spectrum in nonlinear dielectric medium. Applied Optics, 2013, 52, 3073.	1.8	5
10	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
11	Control of polariton spectrum in bigyrotropic medium. Applied Optics, 2013, 52, 6112.	1.8	2
12	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
13	Mass of polaritons in different dielectric media. Journal of Optics (United Kingdom), 2011, 13, 015204.	2.2	7
14	Masses of polaritons. , 2010, , .		0
15	Period variation of polariton waves in optical fiber. Journal of Optics, 2009, 11, 094012.	1.5	9
16	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
17	Splitting of optical pulse as disintegration of quasi-particle bunch. , 2008, , .		0
18	<title>Vortices and spatial waves in polariton quasi-condensate</title>. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
19	All-optical logic gates based on nonlinear dielectric films. Ukrainian Journal of Physical Optics, 2008, 9, 187.	13.0	10
20	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
21	One-dimensional controllable photonic crystal. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2741.	2.1	9
22	Optical logic gate 'AND', controllable photon crystal. , 2007, , .		1
23	Spontaneous symmetry breaking in an electromagnetic field-insulator system. Technical Physics, 2006, 51, 932-937.	0.7	3
24	Polariton Vortices in a Transparent Medium. , 2006, , .		0
25	Vortex Properties of a Photon Flux in a Dielectric Waveguide. Technical Physics, 2005, 50, 135.	0.7	3
26	Singular points in the electromagnetic field-waveguide system. Technical Physics Letters, 2003, 29, 194-196.	0.7	2
27	The topology of "vacuum" in a dielectric waveguide. Technical Physics Letters, 2003, 29, 284-286.	0.7	2
28	The energy of a photon flux in a dielectric waveguide. Technical Physics Letters, 2003, 29, 708-711.	0.7	1
29	<title>Optical pulse vortex stability in dielectric waveguides</title>. , 2003, , .		0
30	<title>Vortex pulse interference</title>. , 2002, 4607, 104.		0
31	<title>Vortex soliton in parabolic optical fiber</title>. , 2002, , .		0
32	Nonlinear modes in optical fibers. Technical Physics Letters, 2002, 28, 403-405.	0.7	2
33	Soliton formation from a gaussian pulse in an optical fiber. Technical Physics, 2002, 47, 713-719.	0.7	2
34	Helicons in an optical fiber. Technical Physics Letters, 2002, 28, 464-466.	0.7	0
35	<title>Compression and expansion of a guided vortex pulse in optical fibers</title>. , 2001, , .		0
36	<title>Formation of vortex soliton from pulse in optical fiber</title>. , 2001, , .		1

#	ARTICLE	IF	CITATIONS
37	<title>Envelope equations of guided vortex pulse in optical fibers</title>. , 2001, , .		0
38	Optical vortex train dynamics in a medium with anomalous dispersion. , 1999, , .		1
39	Three-dimensional solitary waves in dielectric medium. , 0, , .		0