

Ivan V Timofeev

List of Publications by Year in descending order

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117
papers

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393982

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121
times ranked

820
citing authors

#	ARTICLE	IF	CITATIONS
1	Metalâ€Dielectric Polarization-Preserving Anisotropic Mirror for Chiral Optical Tamm State. <i>Nanomaterials</i> , 2022, 12, 234.	1.9	4
2	Germanium Metasurfaces with Lattice Kerker Effect in Near-Infrared Photodetectors. <i>ACS Nano</i> , 2022, 16, 5994-6001.	7.3	26
3	Investigation of Spectral Properties of Chloroplast Grana System by Effective Medium Theory. <i>Doklady Physics</i> , 2022, 67, 44-46.	0.2	0
4	Bound state in the continuum in an anisotropic photonic crystal supported by a full-wave phase plate. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 968.	0.9	6
5	Optical Properties of Multilayer Photon Structures Containing Twisted Nematic Components. <i>Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie</i> , 2022, 22, 94-99.	0.0	0
6	Broadband Tamm Plasmons in Chirped Photonic Crystals for Light-Induced Water Splitting. <i>Nanomaterials</i> , 2022, 12, 928.	1.9	6
7	Electrically Controlled Ionic Modification of Surface Anchoring in Liquid Crystal Materials. <i>Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie</i> , 2022, 22, 89-93.	0.0	0
8	Critical coupling vortex with grating-induced high Q-factor optical Tamm states. <i>Optics Express</i> , 2021, 29, 4672.	1.7	14
9	Quasiâ€Bound States in the Continuum with Temperatureâ€Tunable Q Factors and Critical Coupling Point at Brewster's Angle. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000290.	4.4	18
10	Strain Sensor via Wood Anomalies in 2D Dielectric Array. <i>Nanomaterials</i> , 2021, 11, 1022.	1.9	1
11	Cholesteric layers with tangential-conical surface anchoring for an electrically controlled polarization rotator. <i>Optical Materials Express</i> , 2021, 11, 1527.	1.6	3
12	Photosensitivity and reflectivity of the active layer in a Tamm-plasmon-polariton-based organic solar cell. <i>Applied Optics</i> , 2021, 60, 3338.	0.9	19
13	Splitting of a Tamm plasmon polariton at the interface between a metal and a resonant nanocomposite layer conjugated with a photonic crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 1792.	0.9	4
14	Chiral-Selective Tamm Plasmon Polaritons. <i>Materials</i> , 2021, 14, 2788.	1.3	11
15	Lowâ€Threshold Bound State in the Continuum Lasers in Hybrid Lattice Resonance Metasurfaces. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100118.	4.4	59
16	Experimental implementation of tunable hybrid Tamm-microcavity modes. <i>Applied Physics Letters</i> , 2021, 119, 161107.	1.5	7
17	Liquid Crystal Materials under Conical Boundary Conditions. <i>Zhidkie Kristally I Ikh Prakticheskoe Ispol'zovanie</i> , 2021, 21, 99-102.	0.0	1
18	Optical modes of multilayered photonic structure containing nematic layer with abnormal electroconvective rolls. <i>Optical Materials</i> , 2020, 100, 109630.	1.7	4

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19	Eigenmodes in a photonic structure with a torsion-deformed nematic liquid crystal exposed to a magnetic field. <i>Physical Review E</i> , 2020, 102, 042701.	0.8	0
20	Collective resonances in hybrid photonic-plasmonic nanostructures. <i>Journal of Physics: Conference Series</i> , 2020, 1461, 012046.	0.3	0
21	Chiral Optical Tamm States at the Interface between a Dye-Doped Cholesteric Liquid Crystal and an Anisotropic Mirror. <i>Materials</i> , 2020, 13, 3255.	1.3	6
22	Fano feature induced by a bound state in the continuum via resonant state expansion. <i>Scientific Reports</i> , 2020, 10, 13691.	1.6	14
23	Tamm Plasmon Polaritons for Light Trapping in Organic Solar Cells. <i>Doklady Physics</i> , 2020, 65, 161-163.	0.2	6
24	Hybrid Tamm and surface plasmon polaritons in resonant photonic structure. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107156.	1.1	8
25	Electrically induced transformations of defects in cholesteric layer with tangential-conical boundary conditions. <i>Scientific Reports</i> , 2020, 10, 4907.	1.6	6
26	Localized modes in chiral photonic structures. <i>Physics-Uspexhi</i> , 2020, 63, 33-56.	0.8	20
27	One-dimensional photonic bound states in the continuum. <i>Communications Physics</i> , 2020, 3, .	2.0	60
28	Hyperbolic metamaterial for the Tamm plasmon polariton application. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 2215.	0.9	33
29	Hybrid Tamm-cavity modes in photonic crystal with resonant nanocomposite defect layer. <i>Computer Optics</i> , 2020, 44, .	1.3	7
30	Model of a tunable hybrid Tamm modeâ€“liquid crystal device. <i>Applied Optics</i> , 2020, 59, 6347.	0.9	4
31	Nematic and Cholesteric Liquid Crystal Structures in Cells with Tangential-Conical Boundary Conditions. <i>Crystals</i> , 2019, 9, 249.	1.0	8
32	Epsilon-Near-Zero Absorber by Tamm Plasmon Polariton. <i>Photonics</i> , 2019, 6, 28.	0.9	30
33	Tamm plasmon in a structure with the nanocomposite containing spheroidal coreâ€“shell particles. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 035103.	1.0	1
34	Chiral Optical Tamm States at the Interface between an All-Dielectric Polarization-Preserving Anisotropic Mirror and a Cholesteric Liquid Crystal. <i>Crystals</i> , 2019, 9, 502.	1.0	9
35	Engineering mode hybridization in regular arrays of plasmonic nanoparticles embedded in 1D photonic crystal. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 224, 303-308.	1.1	22
36	Broadband Tamm plasmon polariton. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 2299.	0.9	36

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37	Transparent conductive oxides for the epsilon-near-zero Tamm plasmon polaritons. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2817.	0.9	10
38	Optical defect mode with tunable Q factor in a one-dimensional anisotropic photonic crystal. Physical Review B, 2018, 97, .	1.1	48
39	Tunable hybrid optical modes in a bounded cholesteric liquid crystal with a twist defect. Physical Review E, 2018, 97, 032703.	0.8	5
40	Electro-optical and dielectric properties of polymer-stabilized blue phase liquid crystal impregnated with a fluorine-containing compound. Journal of Molecular Liquids, 2018, 267, 138-143.	2.3	17
41	Coupled Chiral Optical Tamm States in Cholesteric Liquid Crystals. Photonics, 2018, 5, 30.	0.9	3
42	Electric field-controlled transformation of the eigenmodes in a twisted-nematic Fabry-Pérot cavity. Scientific Reports, 2018, 8, 16869.	1.6	4
43	Two Types of Localized States in a Photonic Crystal Bounded by an Epsilon near Zero Nanocomposite. Photonics, 2018, 5, 22.	0.9	11
44	Experimental Demonstration of Broadband Optical Tamm States in Photonic Crystal. , 2018, , .		2
45	All-dielectric polarization-preserving anisotropic mirror. OSA Continuum, 2018, 1, 682.	1.8	6
46	Electro-thermally tunable reflective colors in a self-organized cholesteric helical superstructure. Photonics Research, 2018, 6, 1094.	3.4	36
47	Transformation of cholesteric orientational structures and optical textures induced by the electric field-driven ionic modification of surface anchoring. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 602-604.	0.1	0
48	Polarization-preserving anisotropic mirror on the basis of metal-dielectric nanocomposite. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 5-9.	0.1	11
49	The optical Tamm states at the interface between a photonic crystal and nanoporous silver. Journal of Optics (United Kingdom), 2017, 19, 015104.	1.0	16
50	Polarization exchange of optical eigenmode pair in twisted-nematic Fabry-Pérot resonator. Physical Review E, 2017, 96, 022711.	0.8	7
51	Localized optical states in a liquid-crystal structure adjacent to a metal. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2017, 123, 189-192.	0.2	1
52	Coupled optical Tamm states at edges of a photonic crystal enclosed by a composite of core-shell nanoparticles. Physics of Wave Phenomena, 2017, 25, 170-174.	0.3	1
53	Optical Tamm states at the interface between a photonic crystal and an epsilon-near-zero nanocomposite. Journal of Optics (United Kingdom), 2017, 19, 085103.	1.0	13
54	Narrowband Wavelength Selective Thermal Emitters by Confined Tamm Plasmon Polaritons. ACS Photonics, 2017, 4, 2212-2219.	3.2	164

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55	Orientational transition in the cholesteric layer induced by electrically controlled ionic modification of the surface anchoring. <i>Liquid Crystals</i> , 2017, 44, 484-489.	0.9	9
56	Localised optical states in a structure formed by two oppositely handed cholesteric liquid crystal layers and a metal. <i>Liquid Crystals</i> , 2017, 44, 674-678.	0.9	11
57	The optical Tamm states at the edges of a photonic crystal bounded by one or two layers of a strongly anisotropic nanocomposite. <i>Optics Communications</i> , 2017, 395, 275-281.	1.0	17
58	Quasiperiodic one-dimensional photonic crystals with adjustable multiple photonic bandgaps. <i>Optics Letters</i> , 2017, 42, 3602.	1.7	37
59	Chiral Optical Tamm States: Temporal Coupled-Mode Theory. <i>Crystals</i> , 2017, 7, 113.	1.0	14
60	Tunable hybrid Tamm-microcavity states. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2633.	0.9	21
61	Localized optical modes in a defect-containing liquid-crystal structure adjacent to the metal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2011.	0.9	6
62	Optical Tamm states at the interface between a photonic crystal and a gyroid layer. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2198.	0.9	21
63	Dynamic Tuning and Memory Switching of Defect Modes in a Hybrid Photonic Structure. <i>Crystals</i> , 2016, 6, 129.	1.0	3
64	Photo-manipulated photonic bandgap devices based on optically tristable chiral-tilted homeotropic nematic liquid crystal. <i>Optics Express</i> , 2016, 24, 25019.	1.7	16
65	Chiral optical Tamm states at the boundary of the medium with helical symmetry of the dielectric tensor. <i>JETP Letters</i> , 2016, 104, 380-383.	0.4	25
66	The optical Tamm states at the interface between a photonic crystal and a nanocomposite containing core-shell particles. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 065106.	1.0	12
67	Hybrid states formed by the optical Tamm and defect modes in a one-dimensional photonic crystal. , 2016, , .		1
68	Spectral and polarization properties of a "cholesteric liquid crystal" phase plate "metal" structure. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 015103.	1.0	12
69	Geometric phase and π -mode blueshift in a chiral anisotropic medium inside a Fabry-Pérot cavity. <i>Physical Review E</i> , 2015, 92, 052504.	0.8	12
70	Hybrid anchoring for a color-reflective dual-frequency cholesteric liquid crystal device switched by low voltages. <i>Optical Materials Express</i> , 2015, 5, 2715.	1.6	17
71	Specific features of the spectral properties of a photonic crystal with a nanocomposite defect with allowance for the size effects. <i>Optics and Spectroscopy (English Translation of Optika I)</i> Tj ETQq1 1 0.784314 rgBTQ2verlocko10 Tf 50		
72	Spectral properties of one-dimensional photonic crystal with anisotropic defect layer of nanocomposite. <i>Physics of Wave Phenomena</i> , 2015, 23, 35-38.	0.3	1

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73	Tunable narrow-bandpass filter based on an asymmetric photonic bandgap structure with a dual-mode liquid crystal. <i>Optics Express</i> , 2014, 22, 15097.	1.7	17
74	Peculiarities of spectral properties of a one-dimensional photonic crystal with an anisotropic defect layer of the nanocomposite with resonant dispersion. <i>Quantum Electronics</i> , 2014, 44, 881-884.	0.3	11
75	Photonic defect modes in a cholesteric liquid crystal with a resonant nanocomposite layer and a twist defect. <i>Physical Review E</i> , 2014, 90, 032505.	0.8	17
76	Surface modes in "photonic cholesteric liquid crystal" phase plate"metal" structure. <i>Optics Letters</i> , 2014, 39, 2743.	1.7	24
77	Spectral manifestation of an effective refraction index in a chiral optical medium inside a Fabry-Perot resonator with anisotropic mirrors. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014, 78, 1308-1312.	0.1	4
78	Optical Tamm states at the interface between a photonic crystal and a nanocomposite with resonance dispersion. <i>Journal of Experimental and Theoretical Physics</i> , 2013, 117, 988-998.	0.2	56
79	Optical properties of nanostructured 2D metal-dielectric photonic crystals with a lattice defect. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2013, 115, 660-665.	0.2	0
80	Specific features of the spectral properties of a cholesteric liquid crystal with a resonance defective nanocomposite layer. <i>Physics of the Solid State</i> , 2013, 55, 1697-1702.	0.2	8
81	Enhanced light absorption with a cholesteric liquid crystal layer. <i>Optical Materials Express</i> , 2013, 3, 496.	1.6	11
82	Spectral modulation of a bistable liquid-crystal photonic structure by the polarization effect. <i>Optical Materials Express</i> , 2013, 3, 821.	1.6	32
83	Voltage-induced defect mode coupling in a one-dimensional photonic crystal with a twisted-nematic defect layer. <i>Physical Review E</i> , 2012, 85, 011705.	0.8	26
84	Traveling of light through a 1D photonic crystal containing a defect layer with resonant dispersion. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2012, 113, 517-521.	0.2	7
85	Spectral properties of a two-dimensional resonant metal-dielectric photonic crystal. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2012, 112, 585-593.	0.2	1
86	Tunable bi-functional photonic device based on one-dimensional photonic crystal infiltrated with a bistable liquid-crystal layer. <i>Optics Express</i> , 2011, 19, 7349.	1.7	37
87	Spectral properties of a one-dimensional photonic crystal with a resonant defect nanocomposite layer. <i>Journal of Experimental and Theoretical Physics</i> , 2011, 113, 755-761.	0.2	47
88	Transmission of light through a plane-parallel plate of a two-dimensional resonant photonic crystal. <i>Physics of the Solid State</i> , 2011, 53, 141-146.	0.2	1
89	Band structure of a two-dimensional resonant photonic crystal. <i>Physics of the Solid State</i> , 2010, 52, 527-532.	0.2	6
90	Control of absorption spectrum of a one-dimensional resonant photonic crystal. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2010, 109, 106-111.	0.2	2

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91	Features of a two-dimensional photonic crystal filled with resonance gas. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2010, 77, 608.	0.2	0
92	Spectral properties of a one-dimensional resonant photonic crystal. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	3
93	Anisotropy of nonlinear optical transmission at the edge of the photonic band gap of an apodized layered medium. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 104, 751-755.	0.2	1
94	Effect of electromagnetically induced transparency on spectrum of defect modes of photonic crystal. Proceedings of SPIE, 2007, , .	0.8	1
95	Influence of cubic nonlinearity on laser radiation transmission in a photonic crystal with spatially modified media properties. Physica Status Solidi - Rapid Research Letters, 2007, 1, 92-94.	1.2	5
96	Photonic Crystals with Resonantly Absorbing Defects. , 2006, , .		0
97	The Self-Organisation of Tetrahedrally Close-Packed Structures in Magnetic Nanocrystalline Tb-Fe and Co-Pd Films. Solid State Phenomena, 2006, 115, 267-274.	0.3	0
98	<title>Preparation of maximal atomic coherence in space by fractional stimulated Raman adiabatic passage</title>. , 2006, 6259, 126.		0
99	Induction of the maximum Raman coherence in an extended medium through fractional adiabatic passage. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2006, 100, 433-436.	0.2	0
100	Temporal shape manipulation of intense light pulses by coherent population trapping. Physical Review A, 2006, 73, .	1.0	11
101	Electromagnetically induced transparency and controlling the time shape of laser pulses. Doklady Physics, 2005, 50, 165-168.	0.2	1
102	Recording and reading of intense optical pulses based on the induced transparency. Radiophysics and Quantum Electronics, 2004, 47, 811-817.	0.1	1
103	Stark-chirped rapid adiabatic passage: Propagation of laser pulses and spacetime evolution of populations and of two-photon coherence. Journal of Experimental and Theoretical Physics, 2003, 97, 711-721.	0.2	2
104	Similar-shaped pulse generation in double-lambda system. , 2003, , .		0
105	Electromagnetically induced transparency; writing, storing, and reading short optical pulses. JETP Letters, 2002, 76, 66-70.	0.4	4
106	<title>Pulse pair propagation under conditions of induced transparency: adiabatic approximation</title>. , 2001, , .		0
107	Spatial evolution of short laser pulses under coherent population trapping. Physical Review A, 2001, 64, .	1.0	20
108	Inversion in an extended three-level medium produced by adiabatic population transfer. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2001, 91, 810-814.	0.2	2

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109	<title>Propagation of two short pulses under conditions of electromagnetically induced transparency: adiabatic following</title> . , 2000, 4002, 45.		1
110	Efficient selective excitation in optically thick extensive media by adiabatic population transfer. , 2000, 3886, 699.		0
111	<title>Pulse pair propagation under conditions of induced transparency</title> . , 2000, , .		0
112	Adiabatic propagation of short pulses under conditions of electromagnetically induced transparency. Quantum Electronics, 2000, 30, 180-184.	0.3	10
113	Long distance propagation of resonant pulses under conditions of induced transparency. , 0, , .		1
114	Adiabats and compression of pulses. , 0, , .		0
115	Modeling of tetrahedrally close-packed structures in magnetic nanocrystalline FE-C films. , 0, , .		0
116	Control of Laser Pulses Shape Using Coherent Population Trapping. , 0, , .		0
117	Nanostructured photosensitive layer for Tamm-plasmon-polariton-based organic solar cells. Applied Optics, 0, , .	0.9	3