

# Ivan V Timofeev

## List of Publications by Year in descending order

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117  
papers

1,416  
citations

394421

19  
h-index

414414

32  
g-index

121  
all docs

121  
docs citations

121  
times ranked

820  
citing authors

#	ARTICLE	IF	CITATIONS
1	Narrowband Wavelength Selective Thermal Emitters by Confined Tamm Plasmon Polaritons. ACS Photonics, 2017, 4, 2212-2219.	6.6	164
2	One-dimensional photonic bound states in the continuum. Communications Physics, 2020, 3, .	5.3	60
3	Low-Threshold Bound State in the Continuum Lasers in Hybrid Lattice Resonance Metasurfaces. Laser and Photonics Reviews, 2021, 15, 2100118.	8.7	59
4	Optical Tamm states at the interface between a photonic crystal and a nanocomposite with resonance dispersion. Journal of Experimental and Theoretical Physics, 2013, 117, 988-998.	0.9	56
5	Optical defect mode with tunable $Q$ factor in a one-dimensional anisotropic photonic crystal. Physical Review B, 2018, 97, .	3.2	48
6	Spectral properties of a one-dimensional photonic crystal with a resonant defect nanocomposite layer. Journal of Experimental and Theoretical Physics, 2011, 113, 755-761.	0.9	47
7	Tunable bi-functional photonic device based on one-dimensional photonic crystal infiltrated with a bistable liquid-crystal layer. Optics Express, 2011, 19, 7349.	3.4	37
8	Quasiperiodic one-dimensional photonic crystals with adjustable multiple photonic bandgaps. Optics Letters, 2017, 42, 3602.	3.3	37
9	Broadband Tamm plasmon polariton. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2299.	2.1	36
10	Electro-thermally tunable reflective colors in a self-organized cholesteric helical superstructure. Photonics Research, 2018, 6, 1094.	7.0	36
11	Hyperbolic metamaterial for the Tamm plasmon polariton application. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2215.	2.1	33
12	Spectral modulation of a bistable liquid-crystal photonic structure by the polarization effect. Optical Materials Express, 2013, 3, 821.	3.0	32
13	Epsilon-Near-Zero Absorber by Tamm Plasmon Polariton. Photonics, 2019, 6, 28.	2.0	30
14	Voltage-induced defect mode coupling in a one-dimensional photonic crystal with a twisted-nematic defect layer. Physical Review E, 2012, 85, 011705.	2.1	26
15	Germanium Metasurfaces with Lattice Kerker Effect in Near-Infrared Photodetectors. ACS Nano, 2022, 16, 5994-6001.	14.6	26
16	Chiral optical Tamm states at the boundary of the medium with helical symmetry of the dielectric tensor. JETP Letters, 2016, 104, 380-383.	1.4	25
17	Surface modes in "photonic cholesteric liquid crystal" phase plate "metal" structure. Optics Letters, 2014, 39, 2743.	3.3	24
18	Engineering mode hybridization in regular arrays of plasmonic nanoparticles embedded in 1D photonic crystal. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 224, 303-308.	2.3	22

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19	Tunable hybrid Tamm-microcavity states. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2633.	2.1	21
20	Optical Tamm states at the interface between a photonic crystal and a gyroid layer. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 2198.	2.1	21
21	Spatial evolution of short laser pulses under coherent population trapping. Physical Review A, 2001, 64, .	2.5	20
22	Localized modes in chiral photonic structures. Physics-Uspexhi, 2020, 63, 33-56.	2.2	20
23	Photosensitivity and reflectivity of the active layer in a Tamm-plasmon-polariton-based organic solar cell. Applied Optics, 2021, 60, 3338.	1.8	19
24	Quasi-Bound States in the Continuum with Temperature-Tunable Q Factors and Critical Coupling Point at Brewster's Angle. Laser and Photonics Reviews, 2021, 15, 2000290.	8.7	18
25	Tunable narrow-bandpass filter based on an asymmetric photonic bandgap structure with a dual-mode liquid crystal. Optics Express, 2014, 22, 15097.	3.4	17
26	Photonic defect modes in a cholesteric liquid crystal with a resonant nanocomposite layer and a twist defect. Physical Review E, 2014, 90, 032505.	2.1	17
27	Hybrid anchoring for a color-reflective dual-frequency cholesteric liquid crystal device switched by low voltages. Optical Materials Express, 2015, 5, 2715.	3.0	17
28	The optical Tamm states at the edges of a photonic crystal bounded by one or two layers of a strongly anisotropic nanocomposite. Optics Communications, 2017, 395, 275-281.	2.1	17
29	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.	4.9	17
30	Photo-manipulated photonic bandgap devices based on optically tristable chiral-tilted homeotropic nematic liquid crystal. Optics Express, 2016, 24, 25019.	3.4	16
31	The optical Tamm states at the interface between a photonic crystal and nanoporous silver. Journal of Optics (United Kingdom), 2017, 19, 015104.	2.2	16
32	Chiral Optical Tamm States: Temporal Coupled-Mode Theory. Crystals, 2017, 7, 113.	2.2	14
33	Fano feature induced by a bound state in the continuum via resonant state expansion. Scientific Reports, 2020, 10, 13691.	3.3	14
34	Critical coupling vortex with grating-induced high Q-factor optical Tamm states. Optics Express, 2021, 29, 4672.	3.4	14
35	Optical Tamm states at the interface between a photonic crystal and an epsilon-near-zero nanocomposite. Journal of Optics (United Kingdom), 2017, 19, 085103.	2.2	13
36	Geometric phase and $\pi$ -mode blueshift in a chiral anisotropic medium inside a Fabry-Pérot cavity. Physical Review E, 2015, 92, 052504.	2.1	12

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37	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.	2.2	12
38	Spectral and polarization properties of a cholesteric liquid crystal phase plate metal structure. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 015103.	2.2	12
39	Temporal shape manipulation of intense light pulses by coherent population trapping. <i>Physical Review A</i> , 2006, 73, .	2.5	11
40	Enhanced light absorption with a cholesteric liquid crystal layer. <i>Optical Materials Express</i> , 2013, 3, 496.	3.0	11
41	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.	1.0	11
42	Polarization-preserving anisotropic mirror on the basis of metal dielectric nanocomposite. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017, 81, 5-9.	0.6	11
43	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.	2.2	11
44	Two Types of Localized States in a Photonic Crystal Bounded by an Epsilon near Zero Nanocomposite. <i>Photonics</i> , 2018, 5, 22.	2.0	11
45	Chiral-Selective Tamm Plasmon Polaritons. <i>Materials</i> , 2021, 14, 2788.	2.9	11
46	Adiabatic propagation of short pulses under conditions of electromagnetically induced transparency. <i>Quantum Electronics</i> , 2000, 30, 180-184.	1.0	10
47	Transparent conductive oxides for the epsilon-near-zero Tamm plasmon polaritons. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 2817.	2.1	10
48	Orientalional transition in the cholesteric layer induced by electrically controlled ionic modification of the surface anchoring. <i>Liquid Crystals</i> , 2017, 44, 484-489.	2.2	9
49	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.	2.2	9
50	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.	0.6	8
51	Nematic and Cholesteric Liquid Crystal Structures in Cells with Tangential-Conical Boundary Conditions. <i>Crystals</i> , 2019, 9, 249.	2.2	8
52	Hybrid Tamm and surface plasmon polaritons in resonant photonic structure. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 253, 107156.	2.3	8
53	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.	0.6	7
54	Polarization exchange of optical eigenmode pair in twisted-nematic Fabry-Pérot resonator. <i>Physical Review E</i> , 2017, 96, 022711.	2.1	7

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55	Hybrid Tamm-cavity modes in photonic crystal with resonant nanocomposite defect layer. <i>Computer Optics</i> , 2020, 44, .	2.2	7
56	Experimental implementation of tunable hybrid Tamm-microcavity modes. <i>Applied Physics Letters</i> , 2021, 119, 161107.	3.3	7
57	Band structure of a two-dimensional resonant photonic crystal. <i>Physics of the Solid State</i> , 2010, 52, 527-532.	0.6	6
58	Chiral Optical Tamm States at the Interface between a Dye-Doped Cholesteric Liquid Crystal and an Anisotropic Mirror. <i>Materials</i> , 2020, 13, 3255.	2.9	6
59	Tamm Plasmon Polaritons for Light Trapping in Organic Solar Cells. <i>Doklady Physics</i> , 2020, 65, 161-163.	0.7	6
60	Electrically induced transformations of defects in cholesteric layer with tangential-conical boundary conditions. <i>Scientific Reports</i> , 2020, 10, 4907.	3.3	6
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.	2.1	6
62	All-dielectric polarization-preserving anisotropic mirror. <i>OSA Continuum</i> , 2018, 1, 682.	1.8	6
63	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.	2.1	6
64	Broadband Tamm Plasmons in Chirped Photonic Crystals for Light-Induced Water Splitting. <i>Nanomaterials</i> , 2022, 12, 928.	4.1	6
65	Influence of cubic nonlinearity on laser radiation transmission in a photonic crystal with spatially modified media properties. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, 92-94.	2.4	5
66	Tunable hybrid optical modes in a bounded cholesteric liquid crystal with a twist defect. <i>Physical Review E</i> , 2018, 97, 032703.	2.1	5
67	Electromagnetically induced transparency; writing, storing, and reading short optical pulses. <i>JETP Letters</i> , 2002, 76, 66-70.	1.4	4
68	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.	0.6	4
69	Electric field-controlled transformation of the eigenmodes in a twisted-nematic Fabry-Perot cavity. <i>Scientific Reports</i> , 2018, 8, 16869.	3.3	4
70	Optical modes of multilayered photonic structure containing nematic layer with abnormal electroconvective rolls. <i>Optical Materials</i> , 2020, 100, 109630.	3.6	4
71	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.	2.1	4
72	Model of a tunable hybrid Tamm mode in liquid crystal device. <i>Applied Optics</i> , 2020, 59, 6347.	1.8	4

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73	Metal- $\epsilon$ -Dielectric Polarization-Preserving Anisotropic Mirror for Chiral Optical Tamm State. <i>Nanomaterials</i> , 2022, 12, 234.	4.1	4
74	Spectral properties of a one-dimensional resonant photonic crystal. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2001, 91, 810-814.	0.6	3
75	Dynamic Tuning and Memory Switching of Defect Modes in a Hybrid Photonic Structure. <i>Crystals</i> , 2016, 6, 129.	2.2	3
76	Coupled Chiral Optical Tamm States in Cholesteric Liquid Crystals. <i>Photonics</i> , 2018, 5, 30.	2.0	3
77	Cholesteric layers with tangential-conical surface anchoring for an electrically controlled polarization rotator. <i>Optical Materials Express</i> , 2021, 11, 1527.	3.0	3
78	Nanostructured photosensitive layer for Tamm-plasmon-polariton-based organic solar cells. <i>Applied Optics</i> , 2010, 49, 106-111.	1.8	3
79	Inversion in an extended three-level medium produced by adiabatic population transfer. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2001, 91, 810-814.	0.6	2
80	Stark-chirped rapid adiabatic passage: Propagation of laser pulses and spacetime evolution of populations and of two-photon coherence. <i>Journal of Experimental and Theoretical Physics</i> , 2003, 97, 711-721.	0.9	2
81	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.	0.6	2
82	Experimental Demonstration of Broadband Optical Tamm States in Photonic Crystal. , 2018, , .		2
83	<title>Propagation of two short pulses under conditions of electromagnetically induced transparency: adiabatic following</title>. , 2000, 4002, 45.		1
84	Long distance propagation of resonant pulses under conditions of induced transparency. , 0, , .		1
85	Recording and reading of intense optical pulses based on the induced transparency. <i>Radiophysics and Quantum Electronics</i> , 2004, 47, 811-817.	0.5	1
86	Electromagnetically induced transparency and controlling the time shape of laser pulses. <i>Doklady Physics</i> , 2005, 50, 165-168.	0.7	1
87	Effect of electromagnetically induced transparency on spectrum of defect modes of photonic crystal. <i>Proceedings of SPIE</i> , 2007, , .	0.8	1
88	Anisotropy of nonlinear optical transmission at the edge of the photonic band gap of an apodized layered medium. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2008, 104, 751-755.	0.6	1
89	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.	0.6	1
90	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.	0.6	1

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91	Spectral properties of one-dimensional photonic crystal with anisotropic defect layer of nanocomposite. <i>Physics of Wave Phenomena</i> , 2015, 23, 35-38.	1.1	1
92	Hybrid states formed by the optical Tamm and defect modes in a one-dimensional photonic crystal. , 2016, , .		1
93	Localized optical states in a liquid-crystal structure adjacent to a metal. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2017, 123, 189-192.	0.6	1
94	Coupled optical Tamm states at edges of a photonic crystal enclosed by a composite of core-shell nanoparticles. <i>Physics of Wave Phenomena</i> , 2017, 25, 170-174.	1.1	1
95	Tamm plasmon in a structure with the nanocomposite containing spheroidal core-shell particles. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 035103.	2.2	1
96	Strain Sensor via Wood Anomalies in 2D Dielectric Array. <i>Nanomaterials</i> , 2021, 11, 1022.	4.1	1
97	Liquid Crystal Materials under Conical Boundary Conditions. <i>Zhidkie Kristally i ikh Prakticheskoe Ispol'zovanie</i> , 2021, 21, 99-102.	0.1	1
98	Efficient selective excitation in optically thick extensive media by adiabatic population transfer. , 2000, 3886, 699.		0
99	<title>Pulse pair propagation under conditions of induced transparency</title>. , 2000, , .		0
100	<title>Pulse pair propagation under conditions of induced transparency: adiabatic approximation</title>. , 2001, , .		0
101	Similar-shaped pulse generation in double-lambda system. , 2003, , .		0
102	Adiabats and compression of pulses. , 0, , .		0
103	Modeling of tetrahedrally close-packed structures in magnetic nanocrystalline Fe-C films. , 0, , .		0
104	Control of Laser Pulses Shape Using Coherent Population Trapping. , 0, , .		0
105	Photonic Crystals with Resonantly Absorbing Defects. , 2006, , .		0
106	The Self-Organisation of Tetrahedrally Close-Packed Structures in Magnetic Nanocrystalline Tb-Fe and Co-Pd Films. <i>Solid State Phenomena</i> , 2006, 115, 267-274.	0.3	0
107	<title>Preparation of maximal atomic coherence in space by fractional stimulated Raman adiabatic passage</title>. , 2006, 6259, 126.		0
108	Induction of the maximum Raman coherence in an extended medium through fractional adiabatic passage. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2006, 100, 433-436.	0.6	0

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109	Features of a two-dimensional photonic crystal filled with resonance gas. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2010, 77, 608.	0.4	0
110	Optical properties of nanostructured 2D metal-dielectric photonic crystals with a lattice defect. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2013, 115, 660-665.	0.6	0
111	Specific features of the spectral properties of a photonic crystal with a nanocomposite defect with allowance for the size effects. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2013, 115, 660-665.	0.784314	0
112	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.	0.6	0
113	Eigenmodes in a photonic structure with a torsion-deformed nematic liquid crystal exposed to a magnetic field. Physical Review E, 2020, 102, 042701.	2.1	0
114	Collective resonances in hybrid photonic-plasmonic nanostructures. Journal of Physics: Conference Series, 2020, 1461, 012046.	0.4	0
115	Investigation of Spectral Properties of Chloroplast Grana System by Effective Medium Theory. Doklady Physics, 2022, 67, 44-46.	0.7	0
116	Optical Properties of Multilayer Photon Structures Containing Twisted Nematic Components. Zhidkie Kristally i ikh Prakticheskoe Ispol'zovanie, 2022, 22, 94-99.	0.1	0
117	Electrically Controlled Ionic Modification of Surface Anchoring in Liquid Crystal Materials. Zhidkie Kristally i ikh Prakticheskoe Ispol'zovanie, 2022, 22, 89-93.	0.1	0