

Ilya A Akimov

List of Publications by Year in descending order

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139
papers

3,322
citations

172386

29
h-index

161767

54
g-index

143
all docs

143
docs citations

143
times ranked

3070
citing authors

#	ARTICLE	IF	CITATIONS
1	Transverse magnetic routing of light emission in hybrid plasmonic-semiconductor nanostructures: Towards operation at room temperature. <i>Physical Review Research</i> , 2022, 4, .	1.3	0
2	Photon Echo Polarimetry of Excitons and Biexcitons in a $\text{CH}_{3}\text{NH}_3\text{PbI}_3$ Perovskite Single Crystal. <i>ACS Photonics</i> , 2022, 9, 621-629.	3.2	7
3	Accumulation and control of spin waves in magnonic dielectric microresonators by a comb of ultrashort laser pulses. <i>Scientific Reports</i> , 2022, 12, 7369.	1.6	4
4	Extending the time of coherent optical response in ensemble of singly-charged InGaAs quantum dots. <i>Communications Physics</i> , 2022, 5, .	2.0	3
5	Giant effective Zeeman splitting in a monolayer semiconductor realized by spin-selective strong light-matter coupling. <i>Nature Photonics</i> , 2022, 16, 632-636.	15.6	14
6	Plasmon-to-exciton spin conversion in semiconductor-metal hybrid nanostructures. <i>Physical Review B</i> , 2021, 103, .	1.1	2
7	Coexistence of Short- and Long-Range Ferromagnetic Proximity Effects in a $\text{Fe}/(\text{Cd},\text{Mg})\text{Te}/\text{CdTe}$ Quantum Well Hybrid Structure. <i>Nano Letters</i> , 2021, 21, 2370-2375.	4.5	4
8	Homogeneous optical anisotropy in an ensemble of InGaAs quantum dots induced by strong enhancement of the heavy-hole band Landé parameter g . <i>Physical Review B</i> , 2021, 104, .	1.1	5
9	Steplike spectral distribution of photoelectrons at the percolation threshold in heavily p-doped GaAs. <i>Physical Review B</i> , 2020, 102, .	1.1	1
10	Effect of electric current on the optical orientation of interface electrons in AlGaAs/GaAs heterostructures. <i>Physical Review B</i> , 2020, 102, .	1.1	1
11	Resonant thermal energy transfer to magnons in a ferromagnetic nanolayer. <i>Nature Communications</i> , 2020, 11, 4130.	5.8	7
12	Accurate photon echo timing by optical freezing of exciton dephasing and rephasing in quantum dots. <i>Communications Physics</i> , 2020, 3, .	2.0	10
13	Quantum beats in the polarization of the spin-dependent photon echo from donor-bound excitons in $\text{CdTe}/(\text{Cd},\text{Mg})\text{Te}$ quantum wells. <i>Physical Review B</i> , 2020, 101, .	1.1	5
14	In-plane anisotropy of the hole g factor in $\text{CdTe}/(\text{Cd},\text{Mg})\text{Te}$ quantum wells studied by spin-dependent photon echoes. <i>Physical Review Research</i> , 2020, 2, .	1.3	4
15	Spin Dynamics of Negatively Charged Excitons in $\text{InP}/(\text{In},\text{Ga})\text{P}$ Quantum Dots in a Magnetic Field. <i>Physics of the Solid State</i> , 2020, 62, 2033-2038.	0.2	1
16	Low voltage control of exchange coupling in a ferromagnet-semiconductor quantum well hybrid structure. <i>Nature Communications</i> , 2019, 10, 2899.	5.8	15
17	Spintronics of semiconductor, metallic, dielectric, and hybrid structures (100th anniversary of the) Tj ETQq1 1 0.784314 rgBT _{0.8} /Overlock		
18	Spatially asymmetric transients of propagating exciton-polariton modes in a planar CdZnTe/CdMgTe guiding structure. <i>Physical Review B</i> , 2019, 100, .	1.1	1

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19	Transverse magneto-optical Kerr effect at narrow optical resonances. <i>Nanophotonics</i> , 2019, 8, 287-296.		2.9	19
20	Epitaxial InGaAs Quantum Dots in Al _{0.29} Ga _{0.71} As Matrix: Intensity and Kinetics of Luminescence in the Near Field of Silver Nanoparticles. <i>Optics and Spectroscopy (English Translation of Optika I)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 697 T			
21	Polarimetry of photon echo on charged and neutral excitons in semiconductor quantum wells. <i>Scientific Reports</i> , 2019, 9, 5666.		1.6	12
22	Effect of nuclear quadrupole interaction on spin beats in photoluminescence polarization dynamics of charged excitons in InP/(In,Ga)P quantum dots. <i>Physical Review B</i> , 2019, 100, .		1.1	2
23	Microscopic dynamics of electron hopping in a semiconductor quantum well probed by spin-dependent photon echoes. <i>Physical Review B</i> , 2019, 100, .		1.1	9
24	Wide-band enhancement of the transverse magneto-optical Kerr effect in magnetite-based plasmonic crystals. <i>Physical Review B</i> , 2019, 100, .		1.1	25
25	Development and Investigation of Mathematical Models of Thermoelastic Stresses and Strains in Production of Multilayer Structures of Spherical Shape for Aircraft. <i>Russian Aeronautics</i> , 2019, 62, 508-511.		0.1	0
26	Photon Echo from an Ensemble of (In,Ga)As Quantum Dots. <i>Semiconductors</i> , 2018, 52, 531-534.		0.2	1
27	Transverse Magneto-Optical Kerr Effect in Magnetite Covered by Array of Gold Nanostripes. <i>Semiconductors</i> , 2018, 52, 1857-1860.		0.2	5
28	Long coherent dynamics of localized excitons in (In,Ga)N/GaN quantum wells. <i>Physical Review B</i> , 2018, 98, .		1.1	7
29	Plasmon-excitonic Enhancement of the Transverse Magneto-Optical Kerr effect in the Semiconductor Magnetic Nanostructures. , 2018, , .		0	
30	Studies of photon echo from exciton ensemble in (In,Ga)As quantum dots. <i>Journal of Physics: Conference Series</i> , 2018, 951, 012029.		0.3	1
31	Single-beam resonant spin amplification of electrons interacting with nuclei in a GaAs/(Al,Ga)As quantum well. <i>Physical Review B</i> , 2018, 98, .		1.1	3
32	Single-beam optical measurement of spin dynamics in CdTe/(Cd,Mg)Te quantum wells. <i>Physical Review B</i> , 2018, 98, .		1.1	8
33	Interfacial Ferromagnetism in a Co/CdTe Ferromagnet/Semiconductor Quantum Well Hybrid Structure. <i>Physics of the Solid State</i> , 2018, 60, 1578-1581.		0.2	3
34	Magnetic-field-induced crossover from the inverse Faraday effect to the optical orientation in EuTe. <i>Journal of Applied Physics</i> , 2018, 123, 193102.		1.1	7
35	Routing the emission of a near-surface light source by a magnetic field. <i>Nature Physics</i> , 2018, 14, 1043-1048.		6.5	27
36	Photon Echo from Localized Excitons in Semiconductor Nanostructures. <i>Physics of the Solid State</i> , 2018, 60, 1635-1644.		0.2	19

#	ARTICLE		IF	CITATIONS
37	Coherent dynamics of localized excitons and trions in ZnO/(Zn,Mg)O quantum wells studied by photon echoes. Physical Review B, 2018, 97, .		1.1	10
38	Coherent optical spectroscopy of charged exciton complexes in semiconductor nanostructures., , 2018, , .		0	
39	Mathematical Models of Heat Exchange in Multilayer Constructions with Various Thermalphysic Characteristics in Industrial Installations. International Review on Modelling and Simulations, 2018, 11, 59.		0.2	0
40	Photon echoes from (In,Ga)As quantum dots embedded in a Tamm-plasmon microcavity. Physical Review B, 2017, 95, .		1.1	23
41	Dynamics of exciton magnetic polarons in CdMnSe/CdMgSe quantum wells: Effect of self-localization. Physical Review B, 2017, 95, .		1.1	14
42	Magnon Accumulation by Clocked Laser Excitation as Source of Long-Range Spin Waves in Transparent Magnetic Films. Physical Review X, 2017, 7, .		2.8	35
43	Damping of Rabi oscillations in intensity-dependent photon echoes from exciton complexes in a CdTe/(Cd,Mg)Te single quantum well. Physical Review B, 2017, 96, .		1.1	19
44	Quasiguided modes of opaline photonic crystals covered by $\langle \text{mml:math} \text{xml�:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle G \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 12 \langle \text{mml:mn} \rangle \langle / \text{mml:math} \rangle$. Physical Review B, 2017, 96, .		1.1	13
45	Time-resolved photon echoes from donor-bound excitons in ZnO epitaxial layers. Physical Review B, 2017, 96, .		1.1	8
46	Generation of spin waves by a train of fs-laser pulses: a novel approach for tuning magnon wavelength. Scientific Reports, 2017, 7, 5668.		1.6	50
47	High-Resolution Two-Dimensional Optical Spectroscopy of Electron Spins. Physical Review X, 2017, 7, .		2.8	9
48	Direct measurement of the long-range $\hat{p}^\dagger \hat{p}$ exchange coupling in a ferromagnet-semiconductor Co/CdMgTe/CdTe quantum well hybrid structure. Physical Review B, 2017, 96, .		1.1	14
49	Excitonic enhancement of the transverse magneto-optical Kerr effect in semiconductor nanostructures., 2017, , .		0	
50	Access to long-term optical memories using photon echoes retrieved from electron spins in semiconductor quantum wells. Proceedings of SPIE, 2016, , .		0.8	1
51	Enhancement of electron hot spot relaxation in photoexcited plasmonic structures by thermal diffusion. Physical Review B, 2016, 94, .		1.1	6
52	Quasi-ordering of composition fluctuations and their interaction with lattice imperfections in an optical spectra of dilute nitride alloys. Semiconductor Science and Technology, 2016, 31, 095012.		1.0	8
53	Ultrafast dynamical response of the lower exciton-polariton branch in CdZnTe. Physical Review B, 2016, 93, .		1.1	1
54	Photon echo transients from an inhomogeneous ensemble of semiconductor quantum dots. Physical Review B, 2016, 93, .		1.1	28

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55	Terahertz dynamics of lattice vibrations in Au/CdTe plasmonic crystals: Photoinduced segregation of Te and enhancement of optical response. <i>Physical Review B</i> , 2016, 93, .	1.1	10
56	Optical orientation of hole magnetic polarons in (Cd,Mn)Te/(Cd,Mn,Mg)Te quantum wells. <i>Physical Review B</i> , 2016, 93, .	1.1	11
57	Coherent spin dynamics of carriers in ferromagnetic semiconductor heterostructures with an Mn layer. <i>Journal of Experimental and Theoretical Physics</i> , 2016, 123, 420-428.	0.2	2
58	Negative circular polarization dynamics in InP/InGaP quantum dots. <i>Journal of Physics: Conference Series</i> , 2016, 741, 012189.	0.3	2
59	Long-range d exchange interaction in a ferromagnet–semiconductor hybrid structure. <i>Nature Physics</i> , 2016, 12, 85-91.	6.5	47
60	Spin-dependent tunneling in semiconductor heterostructures with a magnetic layer. <i>Physical Review B</i> , 2015, 92, .	1.1	11
61	Resonant optical alignment and orientation of Mn^{2+} ions in CdMnTe crystals. <i>Physical Review B</i> , 2015, 92, .		
62	Tunable Optical Nanocavity of Iron-garnet with a Buried Metal Layer. <i>Materials</i> , 2015, 8, 3012-3023.	1.3	6
63	Properties of Exchange Coupled All-garnet Magneto-Optic Thin Film Multilayer Structures. <i>Materials</i> , 2015, 8, 1976-1992.	1.3	6
64	Femtosecond Photo-Induced Phenomena in Multiferroic Hexagonal Manganite YMnO ₃ . <i>Solid State Phenomena</i> , 2015, 233-234, 149-152.	0.3	0
65	Coherent control and angular momentum transfer in semiconductor and plasmonic nanostructures. , 2015, .	0	
66	Photoluminescence of two-dimensional GaTe and GaSe films. <i>2D Materials</i> , 2015, 2, 035010.	2.0	76
67	Ultrafast coherent spectroscopy in quantum dot nanostructures. , 2015, .	0	
68	Magneto-optical intensity effects in plasmonic crystals. , 2014, .	0	
69	Orientation of electron spins in hybrid ferromagnet–semiconductor nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 1663-1672.	0.7	15
70	Magnetophotonic intensity effects in hybrid metal-dielectric structures. <i>Physical Review B</i> , 2014, 89, .	1.1	39
71	Photon echoes. <i>Nature Photonics</i> , 2014, 8, 876-876.	15.6	0
72	Access to long-term optical memories using photon echoes retrieved from semiconductor spins. <i>Nature Photonics</i> , 2014, 8, 851-857.	15.6	74

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73	Transformation of mode polarization in gyrotropic plasmonic waveguides. <i>Laser Physics</i> , 2014, 24, 094006.	0.6	36
74	Coherent Coupling of Excitons and Trions in a Photoexcited CdTe/CdMgTe Quantum Well. <i>Physical Review Letters</i> , 2014, 112, 097401.	2.9	44
75	Exciton-Phonon Interactions in an InAs Quantum Dot Ensemble Studied with 2D Coherent Spectroscopy. , 2014, , .	0	
76	Plasmon-mediated magneto-optical transparency. <i>Nature Communications</i> , 2013, 4, 2128.	5.8	180
77	Tuning of the transverse magneto-optical Kerr effect in magneto-plasmonic crystals. <i>New Journal of Physics</i> , 2013, 15, 075024.	1.2	80
78	Correlation and dephasing effects on the non-radiative coherence between bright excitons in an InAs QD ensemble measured with 2D spectroscopy. <i>Solid State Communications</i> , 2013, 163, 65-69.	0.9	25
79	Electron spin dynamics and optical orientation of Mn ²⁺ ions in GaAs. <i>Journal of Applied Physics</i> , 2013, 113, 136501.	1.1	6
80	Ultrafast photoinduced linear and circular optical anisotropy in the multiferroic hexagonal manganite YMnO ₃ . <i>Physical Review B</i> , 2013, 88, .	1.1	7
81	Waveguide-Plasmon Polaritons Enhance Transverse Magneto-Optical Kerr Effect. <i>Physical Review X</i> , 2013, 3, .	2.8	75
82	Magnetic field induced nutation of exciton-polariton polarization in (Cd,Zn)Te crystals. <i>Physical Review B</i> , 2013, 88, .	1.1	10
83	Fifth-order nonlinear optical response of excitonic states in an InAs quantum dot ensemble measured with two-dimensional spectroscopy. <i>Physical Review B</i> , 2013, 87, .	1.1	43
84	Influence of confinement on biexciton binding in semiconductor quantum dot ensembles measured with two-dimensional spectroscopy. <i>Physical Review B</i> , 2013, 87, .	1.1	50
85	Biexcitons in semiconductor quantum dot ensembles. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1753-1759.	0.7	8
86	Plasmonically Enhanced Transverse Magneto-Optical Kerr Effect. , 2013, , .	0	
87	Confinement Effects on Biexciton Binding in Semiconductor Quantum Dots Measured with 2D Coherent Spectroscopy. , 2013, , .	0	
88	Hybrid structures of magnetic semiconductors and plasmonic crystals: a novel concept for magneto-optical devices [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, A103.	0.9	14
89	Studying periodic nanostructures by probing the in-sample optical far-field using coherent phonons. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	5
90	Magnetic-Field Control of Photon Echo from the Electron-Trion System in a CdTe Quantum Well: Shuffling Coherence between Optically Accessible and Inaccessible States. <i>Physical Review Letters</i> , 2012, 109, 157403.	2.9	36

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91	Evidence of Exciton-Trion Coherent Interactions in a CdTe/CdMgTe Quantum Well., 2012, , .	0	
92	Modulation of a surface plasmon-polariton resonance by subterahertz diffracted coherent phonons. Physical Review B, 2012, 86, .	1.1	19
93	Plasmonic crystals for enhancing optical properties. AIP Conference Proceedings, 2012, , .	0.3	1
94	Dynamic spin polarization by orientation-dependent separation in a ferromagnetâ€“semiconductor hybrid. Nature Communications, 2012, 3, 959.	5.8	53
95	Plasmonic crystals for ultrafast nanophotonics: Optical switching of surface plasmon polaritons. Physical Review B, 2012, 85, .	1.1	58
96	Excitons, Biexcitons, and Trions in an InAs Quantum Dot Ensemble Studied with 2D Fourier-Transform Spectroscopy., 2012, , .	0	
97	Coherence of Fine-Structure States of an InAs Quantum Dot Ensemble Studied with 2D Fourier-Transform Spectroscopy., 2012, , .	0	
98	Intensity magnetooptical effect in magnetoplasmonic crystals. Journal of Physics: Conference Series, 2011, 303, 012038.	0.3	7
99	Extrapolation of the intensity autocorrelation function of a quantum-dot micropillar laser into the thermal emission regime. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1404.	0.9	10
100	Enhanced magneto-optical effects in magnetoplasmonic crystals. Nature Nanotechnology, 2011, 6, 370-376.	15.6	498
101	Optical Orientation of $\langle mml:math \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle mml:msup \langle mml:mi>Mn$ $\langle mml:mrow \langle mml:mn>2$ $\langle mml:mo>+$ $\langle mml:mo>\times$ $\langle mml:mrow \langle mml:mi>1$ $\langle mml:mo>+$ $\langle mml:mo>\times$ $\langle mml:mrow \langle mml:mi>2$ $\langle mml:mo>+$ $\langle mml:mo>\times$ $\langle mml:mrow \langle mml:mi>3$ $\langle mml:mo>+$ $\langle mml:mo>\times$ $\langle mml:mrow \langle mml:mi>4$ $\langle mml:mo>+$ $\langle mml:mo>\times$ $\langle mml:mrow \langle mml:mi>5$ $\langle mml:mo>+$ $\langle mml:mo>\times$ $\langle mml:mrow \langle mml:mi>6$ $\langle mml:mo>+$ $\langle mml:mo>\times$ $\langle mml:mrow \langle mml:mi>7$ $\langle mml:mo>+$ $\langle mml:mo>\times$ $\langle mml:mrow \langle mml:mi>8$ $\langle mml:mo>+$ $\langle mml:mo>\times$ $\langle mml:mrow \langle mml:mi>9$ $\langle mml:mo>+$ $\langle mml:mo>\times$ $\langle mml:mrow \langle mml:mi>10$ $\langle mml:mo>+$ 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