

# Yu V Kapitonov

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

550  
citations

840776

11  
h-index

642732

23  
g-index

40  
all docs

40  
docs citations

40  
times ranked

856  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear polaritons in a monolayer semiconductor coupled to optical bound states in the continuum. <i>Light: Science and Applications</i> , 2020, 9, 56.	16.6	124
2	Invalidity of Band-Gap Engineering Concept for Bi <sup>3+</sup> Heterovalent Doping in CsPbBr <sub>3</sub> Halide Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5408-5411.	4.6	88
3	Microstructural analysis and optical properties of the halide double perovskite Cs <sub>2</sub> BiAgBr <sub>6</sub> single crystals. <i>Chemical Physics Letters</i> , 2018, 694, 18-22.	2.6	42
4	Photon echo transients from an inhomogeneous ensemble of semiconductor quantum dots. <i>Physical Review B</i> , 2016, 93, .	3.2	28
5	Amplified Spontaneous Emission and Random Lasing in MAPbBr <sub>3</sub> Halide Perovskite Single Crystals. <i>Advanced Optical Materials</i> , 2020, 8, 2000690.	7.3	28
6	Low Inhomogeneous Broadening of Excitonic Resonance in MAPbBr <sub>3</sub> Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 302-305.	4.6	27
7	Enhanced temperature-tunable narrow-band photoluminescence from resonant perovskite nanograting. <i>Applied Surface Science</i> , 2019, 473, 419-424.	6.1	25
8	Photon echoes from (In,Ga)As quantum dots embedded in a Tamm-plasmon microcavity. <i>Physical Review B</i> , 2017, 95, .	3.2	23
9	Single-step direct laser writing of halide perovskite microlasers. <i>Applied Physics Express</i> , 2019, 12, 122001.	2.4	18
10	Hybrid Organic-Inorganic Halide Perovskite 3-Cyanopyridinium Lead Tribromide for Optoelectronic Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2102338.	14.9	18
11	Photoluminescence Manipulation by Ion Beam Irradiation in CsPbBr <sub>3</sub> Halide Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21130-21134.	3.1	17
12	Photoluminescence Excitation Spectroscopy of Defect-Related States in MAPbI <sub>3</sub> Perovskite Single Crystals. <i>Advanced Optical Materials</i> , 2021, 9, 2001327.	7.3	13
13	Polarimetry of photon echo on charged and neutral excitons in semiconductor quantum wells. <i>Scientific Reports</i> , 2019, 9, 5666.	3.3	12
14	Counterdiffusion-in-gel growth of high optical and crystal quality MAPbX <sub>3</sub> (MA =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22 perovskite single crystals. <i>CrystEngComm</i> , 2022, 24, 2976-2981.	2.6	12
15	Ion-beam-assisted spatial modulation of inhomogeneous broadening of a quantum well resonance: excitonic diffraction grating. <i>Optics Letters</i> , 2016, 41, 104.	3.3	10
16	Polarization-resolved strong light-matter coupling in planar GaAs/AlGaAs waveguides. <i>Optics Letters</i> , 2018, 43, 4526.	3.3	10
17	Coherent dynamics of localized excitons and trions in ZnO/(Zn,Mg)O quantum wells studied by photon echoes. <i>Physical Review B</i> , 2018, 97, .	3.2	10
18	Effect of irradiation by He <sup>+</sup> and Ga <sup>+</sup> ions on the 2D-exciton susceptibility of InGaAs/GaAs quantum-well structures. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1950-1954.	1.5	9

#	ARTICLE	IF	CITATIONS
19	Increasing of AlGaAs/GaAs quantum well robustness to resonant excitation by lowering Al concentration in barriers. Journal of Physics: Conference Series, 2015, 643, 012085.	0.4	7
20	Photon echo from free excitons in a $\text{CH}_3\text{NH}_3\text{PbI}_3$ halide perovskite single crystal. Physical Review B, 2022, 105, .	3.2	2
21	Spectrally selective diffractive optical elements based on 2D-exciton resonance in InGaAs/GaAs single quantum wells. Physica Status Solidi (B): Basic Research, 2013, 250, 2180-2184.	1.5	6
22	Long-lived dark coherence brought to light by magnetic-field controlled photon echo. Physical Review B, 2021, 103, .	3.2	4
23	Kinetics of carbon nanopillar formation on a pyrolytic graphite surface during reactions induced by a focused electron beam. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 935-938.	0.6	2
24	Separation of inhomogeneous and homogeneous broadening manifestations in InGaAs/GaAs quantum wells by time-resolved four-wave mixing. Journal of Physics: Conference Series, 2018, 1124, 051042.	0.4	2
25	Light-induced transition between the strong and weak coupling regimes in planar waveguide with GaAs/AlGaAs quantum well. Applied Physics Letters, 2020, 116, 081102.	3.3	2
26	Bragg reflection waveguide: Anti-mirror reflection and light slowdown. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2011, 110, 425-431.	0.6	1
27	Access to long-term optical memories using photon echoes retrieved from electron spins in semiconductor quantum wells. Proceedings of SPIE, 2016, , .	0.8	1
28	A theory of excitation of a planar semiconductor optical waveguide using a diffraction grating: Single-scattering approximation. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2016, 115, 377-381.	0.6	1
29	Bleaching compensation in GaAs/AlGaAs quantum wells by above-barrier illumination. Journal of Physics: Conference Series, 2017, 929, 012090.	0.4	1
30	Modeling and optimization of the excitonic diffraction grating. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 1505.	1.5	1
31	The Study of Photoactive Materials. Reviews and Advances in Chemistry, 2020, 10, 73-111.	0.5	1
32	Nonlinear dynamics of the exciton reflection spectrum. Journal of Physics: Conference Series, 2016, 769, 012041.	0.4	0
33	Antimirror Reflection of a Bounded Planar Optical Waveguide: the String Model. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2016, 120, 465-471.	0.6	0
34	Nanodisk fabrication by nanosphere lithography. AIP Conference Proceedings, 2016, , .	0.4	0
35	Photoluminescence behavior of nanoimprinted halide perovskite at low temperatures. AIP Conference Proceedings, 2017, , .	0.4	0
36	Diffraction from excitonic diffraction grating. Journal of Physics: Conference Series, 2019, 1368, 022013.	0.4	0

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37	Anticrossing of optical modes in coupled microcavities. Journal of Physics: Conference Series, 2019, 1400, 066032.	0.4	0
38	Difference in the behavior of the photon echo of excitons in InGaAs/GaAs quantum wells from the predictions of the model of two-level system ensemble. Journal of Physics: Conference Series, 2020, 1482, 012020.	0.4	0
39	Photoluminescence behavior of nanoimprinted halide perovskite at low temperatures. , 2018, , .		0
40	Exciton-polariton dispersion in an A <sup>III</sup> B <sup>V</sup> total internal reflection planar waveguide with a quantum well. Journal of Physics: Conference Series, 2022, 2227, 012010.	0.4	0