

# Yu V Kapitonov

## List of Publications by Year in descending order

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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	Counterdiffusion-in-gel growth of high optical and crystal quality MAPbX <sub>3</sub> (MA =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 perovskite single crystals. CrystEngComm, 2022, 24, 2976-2981.	2.6	12
2	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
3	Photon echo from free excitons in a halide perovskite single crystal. Physical Review B, 2022, 105, .	3.3	3
4	Photoluminescence Excitation Spectroscopy of Defect-Related States in MAPbI <sub>3</sub> Perovskite Single Crystals. Advanced Optical Materials, 2021, 9, 2001327.	7.3	13
5	Long-lived dark coherence brought to light by magnetic-field controlled photon echo. Physical Review B, 2021, 103, .	3.2	4
6	Hybrid Organic-Inorganic Halide Post-Perovskite Cyanopyridinium Lead Tribromide for Optoelectronic Applications. Advanced Functional Materials, 2021, 31, 2102338.	14.9	18
7	Amplified Spontaneous Emission and Random Lasing in MAPbBr <sub>3</sub> Halide Perovskite Single Crystals. Advanced Optical Materials, 2020, 8, 2000690.	7.3	28
8	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
9	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
10	Nonlinear polaritons in a monolayer semiconductor coupled to optical bound states in the continuum. Light: Science and Applications, 2020, 9, 56.	16.6	124
11	The Study of Photoactive Materials. Reviews and Advances in Chemistry, 2020, 10, 73-111.	0.5	1
12	Photoluminescence Manipulation by Ion Beam Irradiation in CsPbBr <sub>3</sub> Halide Perovskite Single Crystals. Journal of Physical Chemistry C, 2019, 123, 21130-21134.	3.1	17
13	Single-step direct laser writing of halide perovskite microlasers. Applied Physics Express, 2019, 12, 122001.	2.4	18
14	Polarimetry of photon echo on charged and neutral excitons in semiconductor quantum wells. Scientific Reports, 2019, 9, 5666.	3.3	12
15	Diffraction from excitonic diffraction grating. Journal of Physics: Conference Series, 2019, 1368, 022013.	0.4	0
16	Anticrossing of optical modes in coupled microcavities. Journal of Physics: Conference Series, 2019, 1400, 066032.	0.4	0
17	Enhanced temperature-tunable narrow-band photoluminescence from resonant perovskite nanograting. Applied Surface Science, 2019, 473, 419-424.	6.1	25
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Separation of inhomogeneous and homogeneous broadening manifestations in InGaAs/GaAs quantum wells by time-resolved four-wave mixing. <i>Journal of Physics: Conference Series</i> , 2018, 1124, 051042.	0.4	2
22	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
23	Polarization-resolved strong light-matter coupling in planar GaAs/AlGaAs waveguides. <i>Optics Letters</i> , 2018, 43, 4526.	3.3	10
24	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
25	Photoluminescence behavior of nanoimprinted halide perovskite at low temperatures. , 2018, , .		0
26	A theory of excitation of a planar semiconductor optical waveguide using a diffraction grating: Single-scattering approximation. <i>Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT /Overbook 10 Tf150 457 Td</i>		
27	Photon echoes from (In,Ga)As quantum dots embedded in a Tamm-plasmon microcavity. <i>Physical Review B</i> , 2017, 95, .	3.2	23
28	Photoluminescence behavior of nanoimprinted halide perovskite at low temperatures. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
29	Bleaching compensation in GaAs/AlGaAs quantum wells by above-barrier illumination. <i>Journal of Physics: Conference Series</i> , 2017, 929, 012090.	0.4	1
30	Nonlinear dynamics of the exciton reflection spectrum. <i>Journal of Physics: Conference Series</i> , 2016, 769, 012041.	0.4	0
31	Access to long-term optical memories using photon echoes retrieved from electron spins in semiconductor quantum wells. <i>Proceedings of SPIE</i> , 2016, , .	0.8	1
32	Photon echo transients from an inhomogeneous ensemble of semiconductor quantum dots. <i>Physical Review B</i> , 2016, 93, .	3.2	28
33	Antimirror Reflection of a Bounded Planar Optical Waveguide: the String Model. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2016, 120, 465-471.	0.6	0
34	Nanodisk fabrication by nanosphere lithography. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0
35	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
36	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

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37	Increasing of AlGaAs/GaAs quantum well robustness to resonant excitation by lowering Al concentration in barriers. <i>Journal of Physics: Conference Series</i> , 2015, 643, 012085.	0.4	7
38	Spectrally selective diffractive optical elements based on 2D-exciton resonance in InGaAs/GaAs single quantum wells. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2180-2184.	1.5	6
39	Kinetics of carbon nanopillar formation on a pyrolytic graphite surface during reactions induced by a focused electron beam. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2013, 77, 935-938.	0.6	2
40	Bragg reflection waveguide: Anti-mirror reflection and light slowdown. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2011, 110, 425-431.	0.6	1