

# Alexey Tiranov

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

790  
citations

623734

14  
h-index

610901

24  
g-index

29  
all docs

29  
docs citations

29  
times ranked

946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum teleportation from a telecom-wavelength photon to a solid-state quantum memory. Nature Photonics, 2014, 8, 775-778.	31.4	208
2	Quantifying Photonic High-Dimensional Entanglement. Physical Review Letters, 2017, 118, 110501.	7.8	90
3	Simultaneous coherence enhancement of optical and microwave transitions in solid-state electronic spins. Nature Materials, 2018, 17, 671-675.	27.5	80
4	A source of polarization-entangled photon pairs interfacing quantum memories with telecom photons. New Journal of Physics, 2014, 16, 093058.	2.9	45
5	Optical Spin-Wave Storage in a Solid-State Hybridized Electron-Nuclear Spin Ensemble. Physical Review Letters, 2020, 124, 053606.	7.8	42
6	Storage of hyperentanglement in a solid-state quantum memory. Optica, 2015, 2, 279.	9.3	37
7	Optical storage for 0.53 s in a solid-state atomic frequency comb memory using dynamical decoupling. New Journal of Physics, 2020, 22, 063009.	2.9	37
8	Quantification of multidimensional entanglement stored in a crystal. Physical Review A, 2017, 96, .	2.5	32
9	Temporal Multimode Storage of Entangled Photon Pairs. Physical Review Letters, 2016, 117, 240506.	7.8	30
10	Experimental certification of millions of genuinely entangled atoms in a solid. Nature Communications, 2017, 8, 907.	12.8	27
11	Coherent Spin-Photon Interface with Waveguide Induced Cycling Transitions. Physical Review Letters, 2021, 126, 013602.	7.8	27
12	Spectroscopic study of hyperfine properties in ${}^3\text{Yb}^{3+}$ doped $\text{SiO}_2$ . Physical Review B, 2018, 98, .	3.2	24
13	Spectral hole lifetimes and spin population relaxation dynamics in neodymium-doped yttrium orthosilicate. Physical Review B, 2017, 95, .	3.2	19
14	High-fidelity multiphoton-entangled cluster state with solid-state quantum emitters in photonic nanostructures. Physical Review A, 2022, 105, .	2.5	16
15	Efficient optical pumping using hyperfine levels in ${}^{145}\text{Nd}^{3+}:\text{Y}_2\text{SiO}_5$ and its application to optical storage. New Journal of Physics, 2018, 20, 053013.	2.9	15
16	Characterization of the hyperfine interaction of the excited $D_05$ state of $\text{Eu}^{3+}:\text{Y}_2\text{SiO}_5$ . Physical Review B, 2018, 97, .	3.2	14
17	Entangling a Hole Spin with a Time-Bin Photon: A Waveguide Approach for Quantum Dot Sources of Multiphoton Entanglement. Physical Review Letters, 2022, 128, .	7.8	14
18	Coherence Time Extension by Large-Scale Optical Spin Polarization in a Rare-Earth Doped Crystal. Physical Review X, 2020, 10, .	8.9	11

#	ARTICLE	IF	CITATIONS
19	Demonstration of Light-Matter Micro-Macro Quantum Correlations. Physical Review Letters, 2016, 116, 190502.	7.8	10
20	Calculating the spectral density of the radiant intensity of the plumes of solid-fuel rocket engines. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2012, 79, 184.	0.4	4
21	Quantum state transfer between a frequency-encoded photonic qubit and a quantum-dot spin in a nanophotonic waveguide. Physical Review A, 2022, 105, .	2.5	4
22	Simulation of coherent responses of resonant media excited by a series of ultrashort laser pulses. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 299-302.	0.6	1
23	Multichannel information processing in the optical echo-processors on the basis of Van-Fleck paramagnet crystals. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 283-289.	0.6	1
24	Collective spontaneous emission in a waveguide with a near-zero refractive index. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 176-179.	0.6	1
25	Towards broadband optical spin-wave quantum memory. , 2019, , .		1
26	Formation of photonic echo signals in the presents of a strong concentration quenching effect. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 1665-1670.	0.6	0
27	Quantum memories with rare-earth-ion doped crystals. , 2013, , .		0
28	Optical Coherence Increase by Diffusion Enhanced Optical Pumping in a Rare-Earth Doped Crystal. , 2021, , .		0
29	Certification and quantification of the entanglement stored in a quantum memory using incomplete data. , 2017, , .		0