Ksenia Yu Khabarova

List of Publications by Year in Descending Order

61 papers	577 citations	9 h-index	22 g-index
65 ext. papers	706 ext. citations	2.6 avg, IF	3.49 L-index

#	Paper	IF	Citations
61	Investigation of the transition at a wavelength of 506 nm, intended for deep cooling of thulium atoms. *Quantum Electronics*, **2021**, 51, 479-483	1.8	2
60	Simultaneous bicolor interrogation in thulium optical clock providing very low systematic frequency shifts. *Nature Communications*, **2021**, 12, 5171	17.4	1
59	48 -cm-long room-temperature cavities in vertical and horizontal orientations for Sr optical clock. *Applied Optics*, **2021**, 60, 9151-9159	1.7	1
58	Frequency transfer via an ultra-stable free-space link. *Quantum Electronics*, **2020**, 50, 267-271	1.8	2
57	Rabi spectroscopy of the clock transition in thulium atoms in a one-dimensional optical lattice. *Quantum Electronics*, **2020**, 50, 220-224	1.8	5
56	Photoionization dynamics of Mg atoms during Paul trap loading using a two-color UV laser system. *Laser Physics Letters*, **2020**, 17, 125501	1.5	
55	Linear Paul Trap for Quantum Logic Experiments. *Bulletin of the Lebedev Physics Institute*, **2020**, 47, 385-389	0.5	0
54	Compact ultrastable laser system for spectroscopy of 2S1/2 -2D3/2 quadrupole transition in 171Yb+ ion. *Quantum Electronics*, **2020**, 50, 850-854	1.8	5
53	Estimation of uncertainty budget for a thulium optical clock **2020**,		1
52	Detection of the clock transition in thulium atoms by using repump laser radiation. *Quantum Electronics*, **2020**, 50, 566-570	1.8	4
51	Compensation of residual amplitude modulation fluctuations in an optoelectronic system for laser radiation frequency stabilisation. *Quantum Electronics*, **2020**, 50, 590-594	1.8	3
50	Long ULE Cavities with Relative Fractional Frequency Drift Rate below 5 × 10−16/s for Laser Frequency Stabilization. *Bulletin of the Lebedev Physics Institute*, **2020**, 47, 257-261	0.5	1
49	Nonselective Paul ion trap loading with a light-emitting diode. *Applied Physics Letters*, **2019**, 115, 104102	3.4	2
48	Optical pumping of ultracold thulium atoms to a lower level of the clock transition and study of their depolarisation. *Quantum Electronics*, **2019**, 49, 418-423	1.8	4
47	Motional states of laser cooled Yb ions in an optimized radiofrequency trap. *Laser Physics*, **2019**, 29, 095201	2.1	2
46	Optimization of Raman Cooling of 25Mg+ Ion to Ground Vibrational State in Linear Paul Trap. *Bulletin of the Lebedev Physics Institute*, **2019**, 46, 138-142	0.5	
45	Temperature drift contribution to frequency instability of silicon Fabry–Perot cavities. *Quantum Electronics*, **2019**, 49, 424-428	1.8	3

44	Three-Dimensional Paul Trap with High Secular Frequency for Compact Optical Clock. *Bulletin of the Lebedev Physics Institute*, **2019**, 46, 297-300	0.5	1
43	Improved Wavelength Measurement of 2S1/2-∂P1/2 and 2D3/2-∂[3/2]1/2 Transitions in Yb+. *Journal of Russian Laser Research*, **2019**, 40, 375-381	0.7	2
42	Laser systems stabilized to cryogenic silicon cavities for precision measurements. *EPJ Web of Conferences*, **2019**, 220, 03020	0.3	1
41	Magic wavelengths near 800 nm for precision spectroscopy of an inner-shell transition in thulium atoms. *Quantum Electronics*, **2019**, 49, 1028-1031	1.8	3
40	On the thermal noise limit of ultrastable optical cavities. *Quantum Electronics*, **2018**, 48, 425-430	1.8	7
39	2.8 km fiber link with phase noise compensation for transportable Yb+ optical clock characterization. *Laser Physics*, **2018**, 28, 105103	1.2	5
38	Doppler laser cooling and vibrational spectrum of 24Mg+ ions in a linear Paul trap. *Quantum Electronics*, **2018**, 48, 448-452	1.8	4
37	Trapping of thulium atoms in a cavity-enhanced optical lattice near a magic wavelength of 814.5 nm. *Quantum Electronics*, **2018**, 48, 415-418	1.8	6
36	EIT Ground State Cooling Scheme of 171Yb+ Based on the 2S1/2-∂P1/2 Cooling Transition. *Journal of Russian Laser Research*, **2018**, 39, 568-574	0.7	3
35	Compact Transportable Optical Standard Based on a Single 171Yb+ Ion (YBIS Project). *Bulletin of the Lebedev Physics Institute*, **2018**, 45, 337-340	0.5	12
34	Progress in optical frequency standards: ultracold Thulium, ions, and passive resonators. *Journal of Physics: Conference Series*, **2017**, 793, 012013	0.3	
33	Methods for determining the polarisability of the fine structure levels in the ground state of the thulium atom. *Quantum Electronics*, **2017**, 47, 479-483	1.8	5
32	Microwave frequency standard on 25Mg+ ions: expected characteristics and prospects. *Quantum Electronics*, **2017**, 47, 426-430	1.8	3
31	Two-temperature momentum distribution in a thulium magneto-optical trap. *Physical Review A*, **2017**, 96,	2.6	6
30	The Rydberg constant and proton size from atomic hydrogen. *Science*, **2017**, 358, 79-85	33.3	198
29	Mass selective laser cooling of Th in a multisectional linear Paul trap loaded with a mixture of thorium isotopes. *European Journal of Mass Spectrometry*, **2017**, 23, 136-139	1.1	5
28	Loading of mass spectrometry ion trap with Th ions by laser ablation for nuclear frequency standard application. *European Journal of Mass Spectrometry*, **2017**, 23, 146-151	1.1	7
27	Trapping, retention and laser cooling of Th3+ ions in a multisection linear quadrupole trap. *Quantum Electronics*, **2017**, 47, 406-411	1.8	9

26	Ultrastable laser system for spectroscopy of the 1S0 □3P0 clock transition in Sr atoms. *Quantum Electronics*, **2017**, 47, 400-405	1.8	8
25	A new generation of cryogenic high-Q Fabry□Perot resonators for ultrastable lasers. *Quantum Electronics*, **2017**, 47, 421-425	1.8	4
24	Short-haul fibre-optic communication link with a phase noise compensation system for optical frequency signal transmission. *Quantum Electronics*, **2017**, 47, 794-797	1.8	6
23	Inner-shell magnetic dipole transition in Tm atoms: A candidate for optical lattice clocks. *Physical Review A*, **2016**, 94,	2.6	25
22	Multiparticle losses in a linear quadrupole Paul trap. *Quantum Electronics*, **2016**, 46, 935-940	1.8	5
21	Spectroscopy of the hydrogen 1S□3S transition with chirped laser pulses. *Physical Review A*, **2016**, 93,	2.6	27
20	A Compact Second-Harmonic Generator for Tasks of Precision Spectroscopy Within the Range of 240□300 nm. *Journal of Russian Laser Research*, **2016**, 37, 440-447	0.7	3
19	Ultracold lanthanides: from optical clock to a quantum simulator. *Physics-Uspekhi*, **2016**, 59, 168-173	2.8	8
18	Active fiber-based retroreflector providing phase-retracing anti-parallel laser beams for precision spectroscopy. *Optics Express*, **2016**, 24, 17470-85	3.3	13
17	Improved measurement of the hyperfine structure of the laser cooling level (4f^{12}(^3H_6)5d_{5/2}6s^2) ((J=9/2)) in ({}^{169}_{,,69}{{mathrm {Tm}}}). *Applied Physics B: Lasers and Optics*, **2015**, 121, 275-282	1.9	5
16	Secondary laser cooling of strontium-88 atoms. *Journal of Experimental and Theoretical Physics*, **2015**, 121, 19-26	1	3
15	Detection of the clock transition (1.14 □m) in ultra-cold thulium atoms. *Quantum Electronics*, **2015**, 45, 482-485	1.8	7
14	Deep Laser Cooling and Trapping of Sr at VNIIFTRI. *EPJ Web of Conferences*, **2015**, 103, 06004	0.3	
13	Detection of 1.14 □m Magnetic Dipole Transition in Ultracold Thulium. *EPJ Web of Conferences*, **2015**, 103, 06002	0.3	
12	Laser Cooling of Lanthanides: from Optical Clocks to Quantum Simulators. *EPJ Web of Conferences*, **2015**, 103, 01007	0.3	1
11	Observation of Magnetically Induced Trap Loss of Ultracold Thulium Atoms. *EPJ Web of Conferences*, **2015**, 103, 06003	0.3	
10	Spectroscopy of intercombination transition1S0□P1for secondary cooling of strontium atoms. *Quantum Electronics*, **2015**, 45, 166-170	1.8	3
9	The GBAR antimatter gravity experiment. *Hyperfine Interactions*, **2015**, 233, 21-27	0.8	76

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8	Precision spectroscopy of 2S□P transitions in atomic hydrogen for a new determination of the Rydberg constant and the proton charge radius. *Physica Scripta*, **2015**, T165, 014030	2.6	14
7	Precision laser spectroscopy in fundamental studies. *Physics-Uspekhi*, **2014**, 57, 1230-1238	2.8	3
6	Precision spectroscopy of the 2S-4P transition in atomic hydrogen on a cryogenic beam of optically excited 2S atoms. *Annalen Der Physik*, **2013**, 525, 671-679	2.6	37
5	Laser system for secondary cooling of87Sr atoms. *Quantum Electronics*, **2012**, 42, 1021-1026	1.8	12
4	Modulated photoconductivity method for investigation of band gap states distribution in silicon-based thin films. *Journal of Non-Crystalline Solids*, **2006**, 352, 1176-1179	3.9	1
3	The density of states in the mobility gap of amorphous hydrogenated silicon doped with erbium. *Semiconductors*, **2005**, 39, 351-353	0.7	2
2	Distribution of the density of electronic states in the energy gap of microcrystalline hydrogenated silicon. *Semiconductors*, **2004**, 38, 1221-1224	0.7	1
1	Effect of electron irradiation on optical and photoelectric properties of microcrystalline hydrogenated silicon. *Semiconductors*, **2003**, 37, 1076-1079	0.7	