

Ksenia Yu Khabarova

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The Rydberg constant and proton size from atomic hydrogen. <i>Science</i> , 2017 , 358, 79-85	33.3	198
60	The GBAR antimatter gravity experiment. <i>Hyperfine Interactions</i> , 2015 , 233, 21-27	0.8	76
59	Precision spectroscopy of the 2S-4P transition in atomic hydrogen on a cryogenic beam of optically excited 2S atoms. <i>Annalen Der Physik</i> , 2013 , 525, 671-679	2.6	37
58	Spectroscopy of the hydrogen 1S _B S transition with chirped laser pulses. <i>Physical Review A</i> , 2016 , 93,	2.6	27
57	Inner-shell magnetic dipole transition in Tm atoms: A candidate for optical lattice clocks. <i>Physical Review A</i> , 2016 , 94,	2.6	25
56	Precision spectroscopy of 2S _B P transitions in atomic hydrogen for a new determination of the Rydberg constant and the proton charge radius. <i>Physica Scripta</i> , 2015 , T165, 014030	2.6	14
55	Active fiber-based retroreflector providing phase-retracing anti-parallel laser beams for precision spectroscopy. <i>Optics Express</i> , 2016 , 24, 17470-85	3.3	13
54	Laser system for secondary cooling of ⁸⁷ Sr atoms. <i>Quantum Electronics</i> , 2012 , 42, 1021-1026	1.8	12
53	Compact Transportable Optical Standard Based on a Single ¹⁷¹ Yb ⁺ Ion (T _B IS _B Project). <i>Bulletin of the Lebedev Physics Institute</i> , 2018 , 45, 337-340	0.5	12
52	Trapping, retention and laser cooling of Th ³⁺ ions in a multisection linear quadrupole trap. <i>Quantum Electronics</i> , 2017 , 47, 406-411	1.8	9
51	Ultrastable laser system for spectroscopy of the 1S ₀ Σ P ₀ clock transition in Sr atoms. <i>Quantum Electronics</i> , 2017 , 47, 400-405	1.8	8
50	Ultracold lanthanides: from optical clock to a quantum simulator. <i>Physics-Uspekhi</i> , 2016 , 59, 168-173	2.8	8
49	Loading of mass spectrometry ion trap with Th ions by laser ablation for nuclear frequency standard application. <i>European Journal of Mass Spectrometry</i> , 2017 , 23, 146-151	1.1	7
48	Detection of the clock transition (1.14 μ h) in ultra-cold thulium atoms. <i>Quantum Electronics</i> , 2015 , 45, 482-485	1.8	7
47	On the thermal noise limit of ultrastable optical cavities. <i>Quantum Electronics</i> , 2018 , 48, 425-430	1.8	7
46	Two-temperature momentum distribution in a thulium magneto-optical trap. <i>Physical Review A</i> , 2017 , 96,	2.6	6
45	Trapping of thulium atoms in a cavity-enhanced optical lattice near a magic wavelength of 814.5 nm. <i>Quantum Electronics</i> , 2018 , 48, 415-418	1.8	6

44	Short-haul fibre-optic communication link with a phase noise compensation system for optical frequency signal transmission. <i>Quantum Electronics</i> , 2017 , 47, 794-797	1.8	6
43	Methods for determining the polarisability of the fine structure levels in the ground state of the thulium atom. <i>Quantum Electronics</i> , 2017 , 47, 479-483	1.8	5
42	Mass selective laser cooling of Th in a multisectional linear Paul trap loaded with a mixture of thorium isotopes. <i>European Journal of Mass Spectrometry</i> , 2017 , 23, 136-139	1.1	5
41	Improved measurement of the hyperfine structure of the laser cooling level ($4f^{12}({}^3H_6)5d_{5/2}6s^2$ ($J=9/2$)) in (${}^{169}_{69}\text{Tm}$). <i>Applied Physics B: Lasers and Optics</i> , 2015 , 121, 275-282	1.9	5
40	Rabi spectroscopy of the clock transition in thulium atoms in a one-dimensional optical lattice. <i>Quantum Electronics</i> , 2020 , 50, 220-224	1.8	5
39	Multiparticle losses in a linear quadrupole Paul trap. <i>Quantum Electronics</i> , 2016 , 46, 935-940	1.8	5
38	2.8 km fiber link with phase noise compensation for transportable Yb+ optical clock characterization. <i>Laser Physics</i> , 2018 , 28, 105103	1.2	5
37	Compact ultrastable laser system for spectroscopy of $2S_{1/2} - 2D_{3/2}$ quadrupole transition in 171Yb^+ ion. <i>Quantum Electronics</i> , 2020 , 50, 850-854	1.8	5
36	Doppler laser cooling and vibrational spectrum of 24Mg^+ ions in a linear Paul trap. <i>Quantum Electronics</i> , 2018 , 48, 448-452	1.8	4
35	Optical pumping of ultracold thulium atoms to a lower level of the clock transition and study of their depolarisation. <i>Quantum Electronics</i> , 2019 , 49, 418-423	1.8	4
34	A new generation of cryogenic high-Q FabryPerot resonators for ultrastable lasers. <i>Quantum Electronics</i> , 2017 , 47, 421-425	1.8	4
33	Detection of the clock transition in thulium atoms by using repump laser radiation. <i>Quantum Electronics</i> , 2020 , 50, 566-570	1.8	4
32	Microwave frequency standard on 25Mg^+ ions: expected characteristics and prospects. <i>Quantum Electronics</i> , 2017 , 47, 426-430	1.8	3
31	Secondary laser cooling of strontium-88 atoms. <i>Journal of Experimental and Theoretical Physics</i> , 2015 , 121, 19-26	1	3
30	A Compact Second-Harmonic Generator for Tasks of Precision Spectroscopy Within the Range of $240\text{--}300$ nm. <i>Journal of Russian Laser Research</i> , 2016 , 37, 440-447	0.7	3
29	Temperature drift contribution to frequency instability of silicon FabryPerot cavities. <i>Quantum Electronics</i> , 2019 , 49, 424-428	1.8	3
28	Spectroscopy of intercombination transition $1S_0 - 3P_1$ for secondary cooling of strontium atoms. <i>Quantum Electronics</i> , 2015 , 45, 166-170	1.8	3
27	Precision laser spectroscopy in fundamental studies. <i>Physics-Uspexhi</i> , 2014 , 57, 1230-1238	2.8	3

26	Compensation of residual amplitude modulation fluctuations in an optoelectronic system for laser radiation frequency stabilisation. <i>Quantum Electronics</i> , 2020 , 50, 590-594	1.8	3
25	Magic wavelengths near 800 nm for precision spectroscopy of an inner-shell transition in thulium atoms. <i>Quantum Electronics</i> , 2019 , 49, 1028-1031	1.8	3
24	EIT Ground State Cooling Scheme of $^{171}\text{Yb}^+$ Based on the $2S_{1/2}-2P_{1/2}$ Cooling Transition. <i>Journal of Russian Laser Research</i> , 2018 , 39, 568-574	0.7	3
23	Nonselective Paul ion trap loading with a light-emitting diode. <i>Applied Physics Letters</i> , 2019 , 115, 104102	3.4	2
22	Frequency transfer via an ultra-stable free-space link. <i>Quantum Electronics</i> , 2020 , 50, 267-271	1.8	2
21	Motional states of laser cooled Yb ions in an optimized radiofrequency trap. <i>Laser Physics</i> , 2019 , 29, 095201	2.0	2
20	Improved Wavelength Measurement of $2S_{1/2}-2P_{1/2}$ and $2D_{3/2}-2P_{3/2}$ Transitions in Yb^+ . <i>Journal of Russian Laser Research</i> , 2019 , 40, 375-381	0.7	2
19	The density of states in the mobility gap of amorphous hydrogenated silicon doped with erbium. <i>Semiconductors</i> , 2005 , 39, 351-353	0.7	2
18	Investigation of the transition at a wavelength of 506 nm, intended for deep cooling of thulium atoms. <i>Quantum Electronics</i> , 2021 , 51, 479-483	1.8	2
17	Three-Dimensional Paul Trap with High Secular Frequency for Compact Optical Clock. <i>Bulletin of the Lebedev Physics Institute</i> , 2019 , 46, 297-300	0.5	1
16	Laser Cooling of Lanthanides: from Optical Clocks to Quantum Simulators. <i>EPJ Web of Conferences</i> , 2015 , 103, 01007	0.3	1
15	Modulated photoconductivity method for investigation of band gap states distribution in silicon-based thin films. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1176-1179	3.9	1
14	Distribution of the density of electronic states in the energy gap of microcrystalline hydrogenated silicon. <i>Semiconductors</i> , 2004 , 38, 1221-1224	0.7	1
13	Estimation of uncertainty budget for a thulium optical clock 2020 ,		1
12	Long ULE Cavities with Relative Fractional Frequency Drift Rate below $5 \times 10^{-16}/\text{s}$ for Laser Frequency Stabilization. <i>Bulletin of the Lebedev Physics Institute</i> , 2020 , 47, 257-261	0.5	1
11	Laser systems stabilized to cryogenic silicon cavities for precision measurements. <i>EPJ Web of Conferences</i> , 2019 , 220, 03020	0.3	1
10	Simultaneous bicolor interrogation in thulium optical clock providing very low systematic frequency shifts. <i>Nature Communications</i> , 2021 , 12, 5171	17.4	1
9	48 -cm-long room-temperature cavities in vertical and horizontal orientations for Sr optical clock. <i>Applied Optics</i> , 2021 , 60, 9151-9159	1.7	1

- 8 Linear Paul Trap for Quantum Logic Experiments. *Bulletin of the Lebedev Physics Institute*, **2020**, 47, 385-389 0
- 7 Progress in optical frequency standards: ultracold Thulium, ions, and passive resonators. *Journal of Physics: Conference Series*, **2017**, 793, 012013 0.3
- 6 Optimization of Raman Cooling of $^{25}\text{Mg}^+$ Ion to Ground Vibrational State in Linear Paul Trap. *Bulletin of the Lebedev Physics Institute*, **2019**, 46, 138-142 0.5
- 5 Deep Laser Cooling and Trapping of Sr at VNIIFTRI. *EPJ Web of Conferences*, **2015**, 103, 06004 0.3
- 4 Detection of 1.14 \mu s Magnetic Dipole Transition in Ultracold Thulium. *EPJ Web of Conferences*, **2015**, 103, 06002 0.3
- 3 Observation of Magnetically Induced Trap Loss of Ultracold Thulium Atoms. *EPJ Web of Conferences*, **2015**, 103, 06003 0.3
- 2 Effect of electron irradiation on optical and photoelectric properties of microcrystalline hydrogenated silicon. *Semiconductors*, **2003**, 37, 1076-1079 0.7
- 1 Photoionization dynamics of Mg atoms during Paul trap loading using a two-color UV laser system. *Laser Physics Letters*, **2020**, 17, 125501 1.5