Elena Fedorova

List of Publications by Year in Descending Order

28 papers	182 citations	7 h-index	12 g-index
33 ext. papers	248 ext. citations	1.9 avg, IF	2.71 L-index

#	Paper	IF	Citations
28	Clock transition excitation efficiency determination using an additional short clock π-pulse. *Journal of Physics: Conference Series*, **2020**, 1692, 012003	0.3	
27	Rabi spectroscopy of the clock transition in thulium atoms in a one-dimensional optical lattice. *Quantum Electronics*, **2020**, 50, 220-224	1.8	5
26	Simultaneous preparation of two initial clock states in a thulium optical clock. *Physical Review A*, **2020**, 102,	2.6	3
25	Estimation of uncertainty budget for a thulium optical clock **2020**,		1
24	Detection of the clock transition in thulium atoms by using repump laser radiation. *Quantum Electronics*, **2020**, 50, 566-570	1.8	4
23	Inner-shell clock transition in atomic thulium with a small blackbody radiation shift. *Nature Communications*, **2019**, 10, 1724	17.4	34
22	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
21	Ultrastable Laser System for Spectroscopy of the 1.14 μm Inner-Shell Clock Transition in Tm and Its Absolute Frequency Measurement. *Journal of Russian Laser Research*, **2019**, 40, 540-546	0.7	5
20	Random to Chaotic Statistic Transformation in Low-Field Fano-Feshbach Resonances of Cold Thulium Atoms. *Physical Review Letters*, **2019**, 123, 213402	7.4	9
19	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
18	Polarized cold cloud of thulium atom. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2018**, 51, 165001	1.3	5
17	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
16	Accurate frequency and time dissemination in the optical domain. *Uspekhi Fizicheskikh Nauk*, **2018**, 188, 221-230	0.5	5
15	Light-assisted collisions in ultracold Tm atoms. *Physical Review A*, **2017**, 95,	2.6	7
14	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
13	Two-temperature momentum distribution in a thulium magneto-optical trap. *Physical Review A*, **2017**, 96,	2.6	6
12	Measurement of the upper clock level lifetime in169Tm. *Journal of Physics: Conference Series*, **2017**, 941, 012114	0.3	

11	Inner-shell magnetic dipole transition in Tm atoms: A candidate for optical lattice clocks. *Physical Review A*, **2016**, 94,	2.6	25
10	Ultracold lanthanides: from optical clock to a quantum simulator. *Physics-Uspekhi*, **2016**, 59, 168-173	2.8	8
9	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
8	Detection of the clock transition (1.14 μm) in ultra-cold thulium atoms. *Quantum Electronics*, **2015**, 45, 482-485	1.8	7
7	Detection of 1.14 μm Magnetic Dipole Transition in Ultracold Thulium. *EPJ Web of Conferences*, **2015**, 103, 06002	0.3	
6	Laser Cooling of Lanthanides: from Optical Clocks to Quantum Simulators. *EPJ Web of Conferences*, **2015**, 103, 01007	0.3	1
5	Laser cooling and trapping of thulium atoms for further investigation of collisional properties. *Journal of Physics: Conference Series*, **2015**, 635, 092117	0.3	1
4	Observation of Magnetically Induced Trap Loss of Ultracold Thulium Atoms. *EPJ Web of Conferences*, **2015**, 103, 06003	0.3	
3	Two-stage laser cooling and optical trapping of thulium atoms. *Laser Physics*, **2014**, 24, 074018	1.2	10
2	Secondary laser cooling and capturing of thulium atoms in traps. *Quantum Electronics*, **2014**, 44, 515-520	1.8	16
1	Collimation of a thulium atomic beam by two-dimensional optical molasses. *Quantum Electronics*, **2013**, 43, 374-378	1.8	5