

# Elena Fedorova

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5932751/elena-fedorova-publications-by-citations.pdf>

**Version:** 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Inner-shell clock transition in atomic thulium with a small blackbody radiation shift. <i>Nature Communications</i> , <b>2019</b> , 10, 1724	17.4	34
27	Inner-shell magnetic dipole transition in Tm atoms: A candidate for optical lattice clocks. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	25
26	Secondary laser cooling and capturing of thulium atoms in traps. <i>Quantum Electronics</i> , <b>2014</b> , 44, 515-520	1.8	16
25	Two-stage laser cooling and optical trapping of thulium atoms. <i>Laser Physics</i> , <b>2014</b> , 24, 074018	1.2	10
24	Random to Chaotic Statistic Transformation in Low-Field Fano-Feshbach Resonances of Cold Thulium Atoms. <i>Physical Review Letters</i> , <b>2019</b> , 123, 213402	7.4	9
23	Ultracold lanthanides: from optical clock to a quantum simulator. <i>Physics-Uspekhi</i> , <b>2016</b> , 59, 168-173	2.8	8
22	Light-assisted collisions in ultracold Tm atoms. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	7
21	Detection of the clock transition (1.14 $\hbar$ ) in ultra-cold thulium atoms. <i>Quantum Electronics</i> , <b>2015</b> , 45, 482-485	1.8	7
20	Two-temperature momentum distribution in a thulium magneto-optical trap. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	6
19	Trapping of thulium atoms in a cavity-enhanced optical lattice near a magic wavelength of 814.5 nm. <i>Quantum Electronics</i> , <b>2018</b> , 48, 415-418	1.8	6
18	Methods for determining the polarisability of the fine structure levels in the ground state of the thulium atom. <i>Quantum Electronics</i> , <b>2017</b> , 47, 479-483	1.8	5
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 ( ${}^{169}_{69}\text{Tm}$ ). <i>Applied Physics B: Lasers and Optics</i> , <b>2015</b> , 121, 275-282	1.9	5
16	Rabi spectroscopy of the clock transition in thulium atoms in a one-dimensional optical lattice. <i>Quantum Electronics</i> , <b>2020</b> , 50, 220-224	1.8	5
15	Polarized cold cloud of thulium atom. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2018</b> , 51, 165001	1.3	5
14	Ultrastable Laser System for Spectroscopy of the 1.14 $\hbar$ Inner-Shell Clock Transition in Tm and Its Absolute Frequency Measurement. <i>Journal of Russian Laser Research</i> , <b>2019</b> , 40, 540-546	0.7	5
13	Collimation of a thulium atomic beam by two-dimensional optical molasses. <i>Quantum Electronics</i> , <b>2013</b> , 43, 374-378	1.8	5
12	Accurate frequency and time dissemination in the optical domain. <i>Uspekhi Fizicheskikh Nauk</i> , <b>2018</b> , 188, 221-230	0.5	5

11	Optical pumping of ultracold thulium atoms to a lower level of the clock transition and study of their depolarisation. <i>Quantum Electronics</i> , <b>2019</b> , 49, 418-423	1.8	4
10	Detection of the clock transition in thulium atoms by using repump laser radiation. <i>Quantum Electronics</i> , <b>2020</b> , 50, 566-570	1.8	4
9	Simultaneous preparation of two initial clock states in a thulium optical clock. <i>Physical Review A</i> , <b>2020</b> , 102,	2.6	3
8	Magic wavelengths near 800 nm for precision spectroscopy of an inner-shell transition in thulium atoms. <i>Quantum Electronics</i> , <b>2019</b> , 49, 1028-1031	1.8	3
7	Laser Cooling of Lanthanides: from Optical Clocks to Quantum Simulators. <i>EPJ Web of Conferences</i> , <b>2015</b> , 103, 01007	0.3	1
6	Laser cooling and trapping of thulium atoms for further investigation of collisional properties. <i>Journal of Physics: Conference Series</i> , <b>2015</b> , 635, 092117	0.3	1
5	Estimation of uncertainty budget for a thulium optical clock <b>2020</b> ,		1
4	Clock transition excitation efficiency determination using an additional short clock pulse. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1692, 012003	0.3	
3	Measurement of the upper clock level lifetime in $^{169}\text{Tm}$ . <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 941, 012114	0.3	
2	Detection of 1.14 $\text{h}$ Magnetic Dipole Transition in Ultracold Thulium. <i>EPJ Web of Conferences</i> , <b>2015</b> , 103, 06002	0.3	
1	Observation of Magnetically Induced Trap Loss of Ultracold Thulium Atoms. <i>EPJ Web of Conferences</i> , <b>2015</b> , 103, 06003	0.3	