

# Maksim Basalaev

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

285  
citations

933264

10  
h-index

887953

17  
g-index

37  
all docs

37  
docs citations

37  
times ranked

145  
citing authors

#	ARTICLE	IF	CITATIONS
1	Line shape of the coherent population trapping resonance in the case of a Gaussian spatial profile of a light beam. Quantum Electronics, 2022, 52, 105-107.	0.3	0
2	Inhomogeneous light shifts of coherent population trapping resonances. Applied Physics Letters, 2022, 120, .	1.5	5
3	Atomic-motion-induced spectroscopic effects that are nonlinear in atomic density in a gas. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1979.	0.9	2
4	Combined atomic clock with blackbody-radiation-shift-induced instability below $10^{-19}$ under natural environment conditions. New Journal of Physics, 2021, 23, 023032.	1.2	5
5	Generalised Ramsey methods for suppressing light shifts in atomic clocks based on the coherent population trapping effect. Quantum Electronics, 2021, 51, 495-501.	0.3	2
6	EIT/EIA Resonances Driven by the Light Field of Elliptically Polarized Waves. , 2021, , .		0
7	Method for stabilization of the microwave modulation index in order to suppress the light shift of the coherent population trapping resonances. Journal of Physics: Conference Series, 2021, 2067, 012003.	0.3	5
8	Auto-Compensation of Collisional Shift in Atomic Clocks Based on Bosonic Atoms in an Optical Lattice. , 2021, , .		0
9	Generalized Ramsey methods in the spectroscopy of coherent-population-trapping resonances. Physical Review A, 2020, 102, .	1.0	9
10	General Methods for Suppressing the Light Shift in Atomic Clocks Using Power Modulation. Physical Review Applied, 2020, 14, .	1.5	21
11	Dynamic Continuous-Wave Spectroscopy of Coherent Population Trapping at Phase-Jump Modulation. Physical Review Applied, 2020, 13, .	1.5	10
12	Resonances of electromagnetically induced transparency and absorption in a light field of elliptically polarised waves. Quantum Electronics, 2020, 50, 571-575.	0.3	1
13	ac Stark shifts of dark resonances probed with Ramsey spectroscopy. Physical Review A, 2018, 98, .	1.0	19
14	Combined error signal in Ramsey spectroscopy of clock transitions. New Journal of Physics, 2018, 20, 123016.	1.2	16
15	Generalized Autobalanced Ramsey Spectroscopy of Clock Transitions. Physical Review Applied, 2018, 9, .	1.5	46
16	Optimization of Stabilization Modes of Optical Frequency Standards Based on the Saturated Absorption Resonance. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2018, 124, 632-636.	0.2	0
17	Two-loop frequency stabilization using concomitant parameter. , 2018, , .		0
18	Atomic spectroscopy in periodic fields. Journal of Physics: Conference Series, 2017, 793, 012033.	0.3	0

#	ARTICLE	IF	CITATIONS
19	Synthetic frequency protocol in the Ramsey spectroscopy. Journal of Physics: Conference Series, 2017, 793, 012034.	0.3	1
20	Optimization of frequency modulation parameters in atomic clocks based on coherent population trapping. , 2017, , .		0
21	Dynamic regime of coherent population trapping and optimization of frequency modulation parameters in atomic clocks. Optics Express, 2017, 25, 2742.	1.7	17
22	Optimization of stabilization regimes in atomic clocks, based on the effect of coherent population trapping. Bulletin of the Russian Academy of Sciences: Physics, 2017, 81, 1449-1453.	0.1	0
23	Feedback enhancement of the amplitude of dynamically excited coherent population trapping resonance in Rb vapour. Proceedings of SPIE, 2016, , .	0.8	1
24	Dynamic steady state of periodically driven quantum systems. Physical Review A, 2016, 93, .	1.0	33
25	Imbalance of group velocities for amplitude and phase pulses propagating in a resonant atomic medium. Physical Review A, 2016, 94, .	1.0	0
26	Transient processes under dynamic excitation of a coherent population trapping resonance. Quantum Electronics, 2016, 46, 668-671.	0.3	19
27	Synthetic frequency protocol for Ramsey spectroscopy of clock transitions. Physical Review A, 2016, 94, .	1.0	21
28	Effect of electromagnetically induced transparency delay generated by dynamic coherent population trapping in Rb vapour. , 2016, , .		2
29	Solutions with Functional Parameters of 2+1-Dimensional Integrable Nonlinear Equations. Two Dimensional Integrable Generalization of the Kaupâ€“Kupershmidt Equation. Russian Physics Journal, 2015, 58, 930-940.	0.2	0
30	Electromagnetically induced absorption and electromagnetically induced transparency for optical transitions $F_g \rightarrow F_e$ in the field of elliptically polarized waves. Journal of Experimental and Theoretical Physics, 2015, 121, 934-949.	0.2	22
31	Steady-state multipole moments of atoms in a resonant field with elliptical polarization. Laser Physics, 2014, 24, 074003.	0.6	2
32	Propagation of the phase pulses of bichromatic radiation under the electromagnetically induced transparency conditions. Laser Physics Letters, 2014, 11, 085402.	0.6	3
33	Nonlinear propagation of polarized light pulses in a medium of atoms with degenerate energy levels: Adiabatic approach. Physical Review A, 2013, 88, .	1.0	9
34	Generation of a pilot phase pulse during the propagation of slow elliptically polarized pulses in a medium under coherent population trapping. JETP Letters, 2012, 95, 444-448.	0.4	0
35	New exact solutions of two-dimensional integrable equations using the $S$ ar partial $S$ -dressing method. Theoretical and Mathematical Physics(Russian Federation), 2011, 167, 725-739.	0.3	8
36	New exact solutions with functional parameters of the Nizhnikâ€“Veselovâ€“Novikov equation with constant asymptotic values at infinity. Theoretical and Mathematical Physics(Russian Federation), 2010, 165, 1470-1489.	0.3	4

#	ARTICLE	IF	CITATIONS
37	Two-dimensional stationary Schrödinger equation via the $\hat{A}$ -dressing method: New exactly solvable potentials, wave functions, and their physical interpretation. Journal of Mathematical Physics, 2010, 51, 092106.	0.5	2