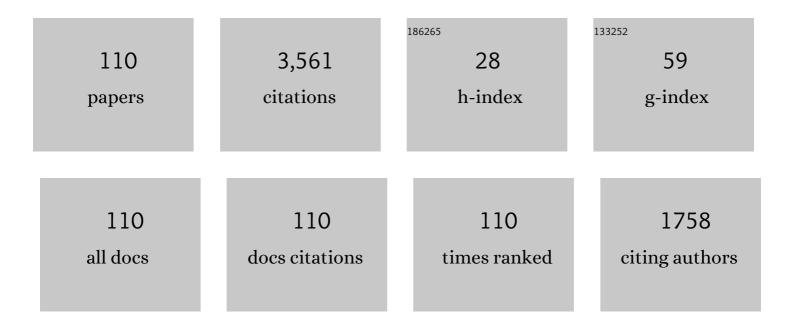
Vladimir A Sautenkov

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ultraslow Group Velocity and Enhanced Nonlinear Optical Effects in a Coherently Driven Hot Atomic Gas. Physical Review Letters, 1999, 82, 5229-5232.	7.8	1,172
2	Optimizing the Laser-Pulse Configuration for Coherent Raman Spectroscopy. Science, 2007, 316, 265-268.	12.6	308
3	Electromagnetically induced transparency controlled by a microwave field. Physical Review A, 2009, 80, .	2.5	126
4	Single-shot detection of bacterial endospores via coherent Raman spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 422-427.	7.1	119
5	Nonlinear optics via double dark resonances. Physical Review A, 2003, 68, .	2.5	105
6	Switching between photon-photon correlations and Raman anticorrelations in a coherently prepared Rb vapor. Physical Review A, 2005, 72, .	2.5	83
7	Optical imaging beyond the diffraction limit via dark states. Physical Review A, 2008, 78, .	2.5	71
8	Enhancement of magneto-optic effects via large atomic coherence in optically dense media. Physical Review A, 2000, 62, .	2.5	66
9	Coherence brightened laser source for atmospheric remote sensing. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 15185-15190.	7.1	65
10	Absorption resonance and large negative delay in rubidium vapor with a buffer gas. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 425.	2.1	60
11	Large negative and positive delay of optical pulses in coherently prepared dense Rb vapor with buffer gas. Physical Review A, 2004, 69, .	2.5	57
12	Electromagnetically induced transparency in rubidium vapor prepared by a comb of short optical pulses. Physical Review A, 2005, 71, .	2.5	54
13	Dipole-Dipole Broadened Line Shape in a Partially Excited Dense Atomic Gas. Physical Review Letters, 1996, 77, 3327-3330.	7.8	52
14	Enhancement of field generation via maximal atomic coherence prepared by fast adiabatic passage inRbvapor. Physical Review A, 2004, 70, .	2.5	52
15	Electromagnetically Induced Magnetochiral Anisotropy in a Resonant Medium. Physical Review Letters, 2005, 94, 233601.	7.8	51
16	Visible and UV coherent Raman spectroscopy of dipicolinic acid. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14976-14981.	7.1	51
17	Coherent versus incoherent Raman scattering: molecular coherence excitation and measurement. Optics Letters, 2007, 32, 1725.	3.3	51
18	Measurement of cesium resonance line self-broadening and shift with doppler-free selective reflection spectroscopy. Optics Communications, 1993, 99, 185-190.	2.1	46

#	Article	IF	CITATIONS
19	Excitation of atomic coherence using off-resonant strong laser pulses. Physical Review A, 2009, 79, .	2.5	45
20	Observation of picosecond superfluorescent pulses in rubidium atomic vapor pumped by 100-fs laser pulses. Physical Review A, 2010, 82, .	2.5	44
21	Ultradispersive adaptive prism based on a coherently prepared atomic medium. Physical Review A, 2010, 81, .	2.5	42
22	Femtosecond CARS of methanol-water mixtures. Journal of Raman Spectroscopy, 2006, 37, 392-396.	2.5	40
23	Fast optical switching via stimulated Raman adiabatic passage. Optics Letters, 2003, 28, 2213.	3.3	39
24	Carrier-Envelope Phase Effect on Atomic Excitation by Few-Cycle rf Pulses. Physical Review Letters, 2010, 104, 103001.	7.8	34
25	Observation of ground-state Zeeman coherences in the selective reflection from cesium vapor. Physical Review A, 1992, 45, 7991-7996.	2.5	31
26	Ac-Stark shifts in the nonlinear Faraday effect. Optics Letters, 2000, 25, 1651.	3.3	31
27	Power broadening of saturation absorption resonance on the D2 line of rubidium. Optics Communications, 1990, 77, 295-298.	2.1	29
28	High-resolution selective reflection spectroscopy in intermediate magnetic fields. Applied Physics B: Lasers and Optics, 1994, 59, 123-126.	2.2	28
29	Intensity correlation and anti-correlations in coherently driven atomic vapor. Journal of Modern Optics, 2010, 57, 1417-1427.	1.3	23
30	Experimental observation of carrier-envelope-phase effects by multicycle pulses. Physical Review A, 2011, 83, .	2.5	23
31	Intensity and concentration dependence of Doppler-free resonance in selective reflection. Optics Communications, 1991, 85, 21-25.	2.1	21
32	Efficient excitation of Rydberg states in ultracold lithium-7 atoms. JETP Letters, 2014, 100, 366-370.	1.4	20
33	Optical pumping saturation effect in selective reflection. Optics Communications, 1994, 108, 77-83.	2.1	19
34	Dipole-dipole collision-induced transport of resonance excitation in a high-density atomic vapor. Physical Review A, 1997, 56, 3569-3575.	2.5	19
35	Line shapes of atomic transitions in excited dense gas. Laser Physics Letters, 2011, 8, 771-781.	1.4	19
36	Ultrafast laser control of backward superfluorescence towards standoff sensing. Applied Physics Letters, 2014, 104, .	3.3	19

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37	Picosecond superradiance in a three-photon resonant medium. Physical Review A, 2012, 85, .	2.5	18
38	Improvement of spectral resolution by using the excitation dependence of dipole–dipole interaction in a dense atomic gas. Applied Physics B: Lasers and Optics, 2008, 91, 229-231.	2.2	17
39	Pulse shaping for mode-selective ultrafast coherent Raman spectroscopy of highly scattering solids. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 768.	2.1	17
40	Spectral narrowing via quantum coherence. Physical Review A, 2006, 74, .	2.5	15
41	Velocity selective optical pumping and dark resonances in selective reflection spectroscopy. Physical Review A, 1997, 55, 2973-2981.	2.5	14
42	Observation of narrow Autler-Townes components in the resonant response of a dense atomic gas. Physical Review A, 2008, 78, .	2.5	14
43	Observation of electromagnetically induced transparency in cesium molecules. Laser Physics, 2010, 20, 1725-1728.	1.2	14
44	Preparation of a high concentration of lithium-7 atoms in a magneto-optical trap. Journal of Experimental and Theoretical Physics, 2014, 119, 795-801.	0.9	14
45	Laser cooling of 7Li atoms in a magneto-optical trap. JETP Letters, 2014, 98, 670-674.	1.4	14
46	Excitation dependence of resonance line self-broadening at different atomic densities. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 065203.	1.5	13
47	Selective reflection of a laser beam from a dilute rubidium vapor. Journal of Russian Laser Research, 2010, 31, 270-275.	0.6	13
48	Quantum fluctuations of superfluorescence delay observed with ultrashort optical excitations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 335-338.	2.1	13
49	Femtosecond wave-packet dynamics in cesium dimers studied through controlled stimulated emission. Physical Review A, 2010, 81, .	2.5	12
50	Temporal coherent control of superfluorescent pulses. Optics Letters, 2012, 37, 2400.	3.3	12
51	Observation of Rydberg Transitions in Resonance Fluorescence of Ultracold Lithium-7 Atoms. Journal of Russian Laser Research, 2015, 36, 193-199.	0.6	12
52	Observing the transition from yoked superfluorescence to superradiance. Optics Communications, 2015, 351, 45-49.	2.1	12
53	Probing the spatial dispersion in a dense atomic vapor near a dielectric interface. Physical Review A, 1998, 58, 4473-4478.	2.5	11
54	Observation of narrow resonances inside homogeneously self-broadened lines in pump-probe reflection experiments. Physical Review A, 1997, 55, 3137-3142.	2.5	10

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55	Observation of collisional modification of the Zeeman effect in a high-density atomic vapor. Physical Review A, 1997, 56, 310-315.	2.5	10
56	Concentration dependence of femtosecond coherent anti-Stokes Raman scattering in the presence of strong absorption. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 1181.	2.1	10
57	Atomic noise spectra in nonlinear magneto-optical rotation in a rubidium vapor. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1702.	2.1	10
58	Using phase dynamics in EIT to probe ground state relaxation in rubidium vapor. Journal of Modern Optics, 2009, 56, 975-979.	1.3	10
59	Optical Dipole Trap for Laser-Cooled Lithium-7 Atoms. Journal of Russian Laser Research, 2019, 40, 230-236.	0.6	10
60	Dynamic control of EIT by changing optical phase. Journal of Modern Optics, 2008, 55, 3093-3099.	1.3	9
61	Switching from a sequential transition to quantum beating in atomic rubidium pumped by a femtosecond laser. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 462.	2.1	9
62	Observation of picosecond UV pulses produced by coherent scattering of IR femtosecond pulses in atomic rubidium vapor. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 515.	2.1	9
63	Power Broadening of Two-Photon Coherent Resonances on Rydberg Atomic Transitions in a Magneto-Optical Trap. Journal of Russian Laser Research, 2017, 38, 91-95.	0.6	9
64	Power spectra and correlations of intensity fluctuations in electromagnetically induced transparency. Journal of Modern Optics, 2007, 54, 2451-2457.	1.3	8
65	Quantum defects in Rydberg <i>n</i> D states of optically cooled ⁷ Li atoms. Laser Physics, 2016, 26, 115701.	1.2	8
66	Intensity correlations in a coherently prepared Rb vapor in a magnetic field. Optics Communications, 2009, 282, 39-44.	2.1	7
67	Forbidden 2P–nP and 2P–nF transitions in the energy spectrum of ultracold Rydberg lithium-7 atoms. Journal of Experimental and Theoretical Physics, 2016, 122, 645-649.	0.9	7
68	Near-infrared saturation spectroscopy of cesium molecules using a diode laser. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 723.	2.1	6
69	Resonant uv pump-probe spectroscopy of dipicolinic acid via impulsive excitation. Physical Review A, 2008, 77, .	2.5	6
70	Variable spectral filter based on optically saturated selective reflection. Laser Physics, 2011, 21, 153-157.	1.2	6
71	Phase dependent interference effects on atomic excitation. Optics Communications, 2011, 284, 2538-2541.	2.1	6
72	Observations of ultrafast superfluorescent beatings in a cesium atomic vapor excited by femtosecond laser pulses. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 428, 127945.	2.1	6

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73	Electromagnetically induced resonances in a dipole–dipole broadened dense atomic vapor. Optics Communications, 2000, 180, 81-87.	2.1	5
74	Unmodulated external-cavity diode laser stabilised on caesium D2 line. IET Science, Measurement and Technology, 1996, 143, 263-264.	0.7	4
75	Control of population and atomic coherence by adiabatic rapid passage and optimization of coherent anti-Stokes Raman scattering signal by maximal coherence. Journal of Modern Optics, 2004, 51, 2555-2569.	1.3	4
76	Contrast Saturation Resonances in the Absorption Band of Rubidium Molecules. Journal of Russian Laser Research, 2013, 34, 375-378.	0.6	4
77	Absorption and fluorescence laser spectroscopy of Rb2molecules. Journal of Modern Optics, 2005, 52, 2373-2380.	1.3	3
78	Ultralow-power local laser control of the dimer density in alkali-metal vapors through photodesorption. Applied Physics Letters, 2012, 101, 091107.	3.3	3
79	Coherent and non-coherent components of two-photon Rydberg excitation of ultracold Li7 atoms. Doklady Physics, 2016, 61, 164-167.	0.7	3
80	Optical Resonant Saturation of Dipole–Dipole Broadened Transitions in High-Density Atomic Vapor. Journal of Russian Laser Research, 2021, 42, 405-411.	0.6	3
81	Polarization cross-coupling in a polymer microlaser upon double-pulse excitation. Physical Review A, 2002, 65, .	2.5	2
82	A model experiment for stand-off sensing. Journal of Modern Optics, 2008, 55, 3273-3281.	1.3	2
83	A Rapid Inspection of Atomic Interference using Superfluorescent Picosecond Pulses. , 2010, , .		2
84	Tracking molecular wave packets in cesium dimers by coherent Raman scattering. Physical Review A, 2012, 86, .	2.5	2
85	Energy intervals between Rydberg states <i>nD</i> and <i>nF</i> in lithium-7. Journal of Physics: Conference Series, 2016, 774, 012165.	0.4	2
86	Observation of coherent effects using a mode-locked rubidium laser. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 035503.	1.5	2
87	Spectral dependence of nonlinear radiation trapping in high density atomic vapor. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 256, 107349.	2.3	2
88	Observation of anomalous stimulated scattering of sound waves via ultra-slow light. , 2005, , .		2
89	Self-focusing threshold of a beam of laser radiation in rubidium vapor. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2016, 83, 667.	0.4	2
90	Quasisoliton Mechanism of Generation of Bistable Injection Laser with External Cavity. Physica Status Solidi (B): Basic Research, 1988, 150, 605-609.	1.5	1

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91	Observation of coherent anti-Stokes Raman scattering in the phase-mismatched direction. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1979.	2.1	1
92	Backward Raman amplification in the gas of rubidium dimers. Journal of Modern Optics, 2006, 53, 2431-2438.	1.3	1
93	Dipole–dipole interactions between atoms in a partly excited resonance gas. Journal of Physics: Conference Series, 2016, 774, 012126.	0.4	1
94	Measurements of quantum defect in Rydberg <i>D</i> -states for lithium atoms. Journal of Physics: Conference Series, 2016, 774, 012166.	0.4	1
95	Two-photon Rydberg resonances in lithium-7 obtained by recording reduction of resonance fluorescence. Doklady Physics, 2017, 62, 107-110.	0.7	1
96	Near-Threshold Measurement of the Photoionization Cross-Section of the Lithium 2P3/2 State in a Magneto-Optical Trap. Journal of Russian Laser Research, 2021, 42, 545-553.	0.6	1
97	Spectral profiles of strongly saturated resonance transitions in high-density rb vapor. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 278, 108007.	2.3	1
98	Influence of saturation beam parameters on laser frequency locked to the cesium cycling transition. , 0, , .		0
99	Electromagnetically induced transparency in Cs <inf>2</inf> molecules. , 2006, , .		0
100	From EIT photon correlations to Raman anti-correlations in coherently prepared Rb vapor. , 2006, , .		0
101	An ultra-dispersive optically controlled atomic prism. , 2007, , .		0
102	Monitoring Vibrational Wave Packet Dynamics via Direct Femtosecond Pump-Probe Measurements. , 2007, , .		0
103	Detection of B. subtilis spores via Hybrid CARS. , 2007, , .		0
104	Detection of B. subtilis spores via hybrid CARS. , 2007, , .		0
105	Hybrid of Frequency and Time Resolved CARS. , 2007, , .		0
106	An optical prism based on resonance ultra-dispersive media. , 2007, , .		0
107	Monitoring vibrational wave packet dynamics via direct femtosecond pump-probe measurements. , 2007, , .		0
108	Effect of Carrier-Envelope Phase on Bound-State Atomic Excitation by Multi-Cycle Pulse. , 2011, , .		0

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#	Article	IF	CITATIONS
109	Preparation of Rydberg states in ultracold Li-7 atoms by using coherent or non-coherent optical excitation. Journal of Physics: Conference Series, 2016, 774, 012164.	0.4	0

Non-adiabatic Atomic Coherence at Work in the Oxygen Laser Source for Atmospheric Remote Sensing. , 2012, , .

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