

# Vladimir A Sautenkov

## List of Publications by Year in descending order

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110  
papers

3,561  
citations

186265

28  
h-index

133252

59  
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110  
all docs

110  
docs citations

110  
times ranked

1758  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Optical Resonant Saturation of Dipole-Broadened Transitions in High-Density Atomic Vapor. Journal of Russian Laser Research, 2021, 42, 405-411.	0.6	3
4	Near-Threshold Measurement of the Photoionization Cross-Section of the Lithium 2P <sub>3/2</sub> State in a Magneto-Optical Trap. Journal of Russian Laser Research, 2021, 42, 545-553.	0.6	1
5	Spectral dependence of nonlinear radiation trapping in high density atomic vapor. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 256, 107349.	2.3	2
6	Optical Dipole Trap for Laser-Cooled Lithium-7 Atoms. Journal of Russian Laser Research, 2019, 40, 230-236.	0.6	10
7	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
8	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
9	Two-photon Rydberg resonances in lithium-7 obtained by recording reduction of resonance fluorescence. Doklady Physics, 2017, 62, 107-110.	0.7	1
10	Dipole-dipole interactions between atoms in a partly excited resonance gas. Journal of Physics: Conference Series, 2016, 774, 012126.	0.4	1
11	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
12	Energy intervals between Rydberg states $nD$ and $nF$ in lithium-7. Journal of Physics: Conference Series, 2016, 774, 012165.	0.4	2
13	Coherent and non-coherent components of two-photon Rydberg excitation of ultracold Li7 atoms. Doklady Physics, 2016, 61, 164-167.	0.7	3
14	Quantum defects in Rydberg $nD$ states of optically cooled ${}^7\text{Li}$ atoms. Laser Physics, 2016, 26, 115701.	1.2	8
15	Forbidden $2P \leftarrow nP$ and $2P \leftarrow nF$ transitions in the energy spectrum of ultracold Rydberg lithium-7 atoms. Journal of Experimental and Theoretical Physics, 2016, 122, 645-649.	0.9	7
16	Measurements of quantum defect in Rydberg $nD$ -states for lithium atoms. Journal of Physics: Conference Series, 2016, 774, 012166.	0.4	1
17	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
18	Observation of Rydberg Transitions in Resonance Fluorescence of Ultracold Lithium-7 Atoms. Journal of Russian Laser Research, 2015, 36, 193-199.	0.6	12

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19	Observing the transition from yoked superfluorescence to superradiance. Optics Communications, 2015, 351, 45-49.	2.1	12
20	Efficient excitation of Rydberg states in ultracold lithium-7 atoms. JETP Letters, 2014, 100, 366-370.	1.4	20
21	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
22	Ultrafast laser control of backward superfluorescence towards standoff sensing. Applied Physics Letters, 2014, 104, .	3.3	19
23	Laser cooling of 7Li atoms in a magneto-optical trap. JETP Letters, 2014, 98, 670-674.	1.4	14
24	Contrast Saturation Resonances in the Absorption Band of Rubidium Molecules. Journal of Russian Laser Research, 2013, 34, 375-378.	0.6	4
25	Temporal coherent control of superfluorescent pulses. Optics Letters, 2012, 37, 2400.	3.3	12
26	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
27	Tracking molecular wave packets in cesium dimers by coherent Raman scattering. Physical Review A, 2012, 86, .	2.5	2
28	Picosecond superradiance in a three-photon resonant medium. Physical Review A, 2012, 85, .	2.5	18
29	Ultralow-power local laser control of the dimer density in alkali-metal vapors through photodesorption. Applied Physics Letters, 2012, 101, 091107.	3.3	3
30	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
31	Non-adiabatic Atomic Coherence at Work in the Oxygen Laser Source for Atmospheric Remote Sensing. , 2012, , .		0
32	Experimental observation of carrier-envelope-phase effects by multicycle pulses. Physical Review A, 2011, 83, .	2.5	23
33	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
34	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
35	Effect of Carrier-Envelope Phase on Bound-State Atomic Excitation by Multi-Cycle Pulse. , 2011, , .		0
36	Variable spectral filter based on optically saturated selective reflection. Laser Physics, 2011, 21, 153-157.	1.2	6

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37	Line shapes of atomic transitions in excited dense gas. <i>Laser Physics Letters</i> , 2011, 8, 771-781.	1.4	19
38	Phase dependent interference effects on atomic excitation. <i>Optics Communications</i> , 2011, 284, 2538-2541.	2.1	6
39	A Rapid Inspection of Atomic Interference using Superfluorescent Picosecond Pulses. , 2010, , .		2
40	Observation of electromagnetically induced transparency in cesium molecules. <i>Laser Physics</i> , 2010, 20, 1725-1728.	1.2	14
41	Ultradispersive adaptive prism based on a coherently prepared atomic medium. <i>Physical Review A</i> , 2010, 81, .	2.5	42
42	Selective reflection of a laser beam from a dilute rubidium vapor. <i>Journal of Russian Laser Research</i> , 2010, 31, 270-275.	0.6	13
43	Carrier-Envelope Phase Effect on Atomic Excitation by Few-Cycle rf Pulses. <i>Physical Review Letters</i> , 2010, 104, 103001.	7.8	34
44	Observation of picosecond superfluorescent pulses in rubidium atomic vapor pumped by 100-fs laser pulses. <i>Physical Review A</i> , 2010, 82, .	2.5	44
45	Intensity correlation and anti-correlations in coherently driven atomic vapor. <i>Journal of Modern Optics</i> , 2010, 57, 1417-1427.	1.3	23
46	Femtosecond wave-packet dynamics in cesium dimers studied through controlled stimulated emission. <i>Physical Review A</i> , 2010, 81, .	2.5	12
47	Excitation of atomic coherence using off-resonant strong laser pulses. <i>Physical Review A</i> , 2009, 79, .	2.5	45
48	Excitation dependence of resonance line self-broadening at different atomic densities. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 065203.	1.5	13
49	Intensity correlations in a coherently prepared Rb vapor in a magnetic field. <i>Optics Communications</i> , 2009, 282, 39-44.	2.1	7
50	Using phase dynamics in EIT to probe ground state relaxation in rubidium vapor. <i>Journal of Modern Optics</i> , 2009, 56, 975-979.	1.3	10
51	Electromagnetically induced transparency controlled by a microwave field. <i>Physical Review A</i> , 2009, 80, .	2.5	126
52	Improvement of spectral resolution by using the excitation dependence of dipole-dipole interaction in a dense atomic gas. <i>Applied Physics B: Lasers and Optics</i> , 2008, 91, 229-231.	2.2	17
53	Pulse shaping for mode-selective ultrafast coherent Raman spectroscopy of highly scattering solids. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 768.	2.1	17
54	Atomic noise spectra in nonlinear magneto-optical rotation in a rubidium vapor. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 1702.	2.1	10

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55	A model experiment for stand-off sensing. Journal of Modern Optics, 2008, 55, 3273-3281.	1.3	2
56	Dynamic control of EIT by changing optical phase. Journal of Modern Optics, 2008, 55, 3093-3099.	1.3	9
57	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
58	Optical imaging beyond the diffraction limit via dark states. Physical Review A, 2008, 78, .	2.5	71
59	Observation of narrow Autler-Townes components in the resonant response of a dense atomic gas. Physical Review A, 2008, 78, .	2.5	14
60	Resonant uv pump-probe spectroscopy of dipicolinic acid via impulsive excitation. Physical Review A, 2008, 77, .	2.5	6
61	An ultra-dispersive optically controlled atomic prism. , 2007, , .		0
62	Monitoring Vibrational Wave Packet Dynamics via Direct Femtosecond Pump-Probe Measurements. , 2007, , .		0
63	Detection of B. subtilis spores via Hybrid CARS. , 2007, , .		0
64	Detection of B. subtilis spores via hybrid CARS. , 2007, , .		0
65	Hybrid of Frequency and Time Resolved CARS. , 2007, , .		0
66	Power spectra and correlations of intensity fluctuations in electromagnetically induced transparency. Journal of Modern Optics, 2007, 54, 2451-2457.	1.3	8
67	An optical prism based on resonance ultra-dispersive media. , 2007, , .		0
68	Optimizing the Laser-Pulse Configuration for Coherent Raman Spectroscopy. Science, 2007, 316, 265-268.	12.6	308
69	Coherent versus incoherent Raman scattering: molecular coherence excitation and measurement. Optics Letters, 2007, 32, 1725.	3.3	51
70	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
71	Monitoring vibrational wave packet dynamics via direct femtosecond pump-probe measurements. , 2007, , .		0
72	Backward Raman amplification in the gas of rubidium dimers. Journal of Modern Optics, 2006, 53, 2431-2438.	1.3	1

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73	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
74	Femtosecond CARS of methanol-water mixtures. Journal of Raman Spectroscopy, 2006, 37, 392-396.	2.5	40
75	Electromagnetically induced transparency in Cs molecules. , 2006, , .		0
76	From EIT photon correlations to Raman anti-correlations in coherently prepared Rb vapor. , 2006, , .		0
77	Spectral narrowing via quantum coherence. Physical Review A, 2006, 74, .	2.5	15
78	Switching between photon-photon correlations and Raman anticorrelations in a coherently prepared Rb vapor. Physical Review A, 2005, 72, .	2.5	83
79	Electromagnetically induced transparency in rubidium vapor prepared by a comb of short optical pulses. Physical Review A, 2005, 71, .	2.5	54
80	Absorption and fluorescence laser spectroscopy of Rb <sub>2</sub> molecules. Journal of Modern Optics, 2005, 52, 2373-2380.	1.3	3
81	Electromagnetically Induced Magnetochiral Anisotropy in a Resonant Medium. Physical Review Letters, 2005, 94, 233601.	7.8	51
82	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
83	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
84	Observation of anomalous stimulated scattering of sound waves via ultra-slow light. , 2005, , .		2
85	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
86	Enhancement of field generation via maximal atomic coherence prepared by fast adiabatic passage in Rb vapor. Physical Review A, 2004, 70, .	2.5	52
87	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
88	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
89	Fast optical switching via stimulated Raman adiabatic passage. Optics Letters, 2003, 28, 2213.	3.3	39
90	Nonlinear optics via double dark resonances. Physical Review A, 2003, 68, .	2.5	105

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91	Polarization cross-coupling in a polymer microlaser upon double-pulse excitation. <i>Physical Review A</i> , 2002, 65, .	2.5	2
92	Electromagnetically induced resonances in a dipole–dipole broadened dense atomic vapor. <i>Optics Communications</i> , 2000, 180, 81-87.	2.1	5
93	Enhancement of magneto-optic effects via large atomic coherence in optically dense media. <i>Physical Review A</i> , 2000, 62, .	2.5	66
94	Ac-Stark shifts in the nonlinear Faraday effect. <i>Optics Letters</i> , 2000, 25, 1651.	3.3	31
95	Ultraslow Group Velocity and Enhanced Nonlinear Optical Effects in a Coherently Driven Hot Atomic Gas. <i>Physical Review Letters</i> , 1999, 82, 5229-5232.	7.8	1,172
96	Probing the spatial dispersion in a dense atomic vapor near a dielectric interface. <i>Physical Review A</i> , 1998, 58, 4473-4478.	2.5	11
97	Velocity selective optical pumping and dark resonances in selective reflection spectroscopy. <i>Physical Review A</i> , 1997, 55, 2973-2981.	2.5	14
98	Observation of narrow resonances inside homogeneously self-broadened lines in pump-probe reflection experiments. <i>Physical Review A</i> , 1997, 55, 3137-3142.	2.5	10
99	Dipole-dipole collision-induced transport of resonance excitation in a high-density atomic vapor. <i>Physical Review A</i> , 1997, 56, 3569-3575.	2.5	19
100	Observation of collisional modification of the Zeeman effect in a high-density atomic vapor. <i>Physical Review A</i> , 1997, 56, 310-315.	2.5	10
101	Unmodulated external-cavity diode laser stabilised on caesium D2 line. <i>IET Science, Measurement and Technology</i> , 1996, 143, 263-264.	0.7	4
102	Dipole-Dipole Broadened Line Shape in a Partially Excited Dense Atomic Gas. <i>Physical Review Letters</i> , 1996, 77, 3327-3330.	7.8	52
103	High-resolution selective reflection spectroscopy in intermediate magnetic fields. <i>Applied Physics B: Lasers and Optics</i> , 1994, 59, 123-126.	2.2	28
104	Optical pumping saturation effect in selective reflection. <i>Optics Communications</i> , 1994, 108, 77-83.	2.1	19
105	Measurement of cesium resonance line self-broadening and shift with doppler-free selective reflection spectroscopy. <i>Optics Communications</i> , 1993, 99, 185-190.	2.1	46
106	Observation of ground-state Zeeman coherences in the selective reflection from cesium vapor. <i>Physical Review A</i> , 1992, 45, 7991-7996.	2.5	31
107	Intensity and concentration dependence of Doppler-free resonance in selective reflection. <i>Optics Communications</i> , 1991, 85, 21-25.	2.1	21
108	Power broadening of saturation absorption resonance on the D2 line of rubidium. <i>Optics Communications</i> , 1990, 77, 295-298.	2.1	29

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109	Quasisoliton Mechanism of Generation of Bistable Injection Laser with External Cavity. Physica Status Solidi (B): Basic Research, 1988, 150, 605-609.	1.5	1
110	Influence of saturation beam parameters on laser frequency locked to the cesium cycling transition. , 0, , .		0