

# Ryszard Tanas

## List of Publications by Year in Descending Order

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

113 papers	2,849 citations	28 h-index	50 g-index
116 ext. papers	3,049 ext. citations	2.1 avg, IF	5.02 L-index

#	Paper	IF	Citations
113	Creating a switchable optical cavity with controllable quantum-state mapping between two modes. <i>Scientific Reports</i> , <b>2018</b> , 8, 14740	4.9	1
112	Experiments with Squeezed Light Excitation of Atoms. <i>Springer Series in Optical Sciences</i> , <b>2017</b> , 223-249	0.5	
111	Quantum Fluctuations and Their Measurements. <i>Springer Series in Optical Sciences</i> , <b>2017</b> , 1-37	0.5	
110	Time-Dependent Fluorescence Spectroscopy. <i>Springer Series in Optical Sciences</i> , <b>2017</b> , 145-183	0.5	
109	Quantum Spectroscopy with Squeezed Light. <i>Springer Series in Optical Sciences</i> , <b>2017</b> , 185-221	0.5	
108	Engineering Collective and Squeezed Field Interactions. <i>Springer Series in Optical Sciences</i> , <b>2017</b> , 251-283	0.5	
107	Dipole Squeezing and Spin Squeezed States. <i>Springer Series in Optical Sciences</i> , <b>2017</b> , 335-372	0.5	
106	Spectra of Radiating Systems. <i>Springer Series in Optical Sciences</i> , <b>2017</b> , 39-72	0.5	
105	Spectroscopy with Single Atoms in Atomic Beams. <i>Springer Series in Optical Sciences</i> , <b>2017</b> , 73-108	0.5	
104	Collective Multiatom Spectroscopy. <i>Springer Series in Optical Sciences</i> , <b>2017</b> , 109-144	0.5	
103	Beating Quantum Limits in Optical Spectroscopy. <i>Springer Series in Optical Sciences</i> , <b>2017</b> , 285-333	0.5	
102	Quantum-Limit Spectroscopy. <i>Springer Series in Optical Sciences</i> , <b>2017</b> ,	0.5	6
101	Evolution of quantum correlations in a two-atom system. <i>Physica Scripta</i> , <b>2013</b> , T153, 014059	2.6	7
100	Generating two-photon entangled states in a driven two-atom system. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	21
99	Sudden birth and sudden death of entanglement. <i>Journal of Computational Methods in Sciences and Engineering</i> , <b>2010</b> , 10, 265-289	0.3	3
98	Sudden birth and death of entanglement of two atoms in a finite temperature reservoir. <i>Physica Scripta</i> , <b>2010</b> , T140, 014037	2.6	15
97	High-fidelity atomic-state teleportation protocol with non-maximally-entangled states. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	9

96	Fine tuning of quantum operations performed via Raman transitions. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	6
95	Delayed sudden birth of entanglement. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	202
94	Improving fidelity in atomic state teleportation via cavity decay. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	14
93	Dark periods and revivals of entanglement in a two-qubit system. <i>Physical Review A</i> , <b>2006</b> , 74,	2.6	309
92	Teleportation with insurance of an entangled atomic state via cavity decay. <i>Physical Review A</i> , <b>2005</b> , 71,	2.6	28
91	Stationary two-atom entanglement induced by nonclassical two-photon correlations. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>2004</b> , 6, S610-S617		36
90	Entangling two atoms via spontaneous emission. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>2004</b> , 6, S90-S97		102
89	Quantum fluctuations in nonlinear systems. <i>European Physical Journal A</i> , <b>2004</b> , 20, 7-10		
88	Entangled states and collective nonclassical effects in two-atom systems. <i>Physics Reports</i> , <b>2002</b> , 372, 369-443	27.7	311
87	Limits of Noise Squeezing in Kerr Effect. <i>European Physical Journal D</i> , <b>2002</b> , 52, 1313-1319		16
86	The effect of a non-zero spontaneous decay rate on teleportation. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>2002</b> , 4, 430-437		10
85	Squeezing and squeezing-like terms in the master equation for a two-level atom in strong fields. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>2002</b> , 4, S142-S152		11
84	Two-level atom in a structured reservoir <b>2001</b> , 4356, 7		
83	Markovian master equation for a two-level atom in a strong field and/or a tailored reservoir. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2001</b> , 91, 470-476	0.7	2
82	Generalized master equation for a two-level atom in a strong field and tailored reservoirs. <i>Journal of Modern Optics</i> , <b>2001</b> , 48, 347-370	1.1	24
81	Generalized master equation for a two-level atom in a strong field and tailored reservoirs. <i>Journal of Modern Optics</i> , <b>2001</b> , 48, 347-370	1.1	7
80	Response of a two-level atom to a narrow-bandwidth squeezed-vacuum excitation. <i>Physical Review A</i> , <b>2000</b> , 61,	2.6	9
79	Comparative study of photon bunching of classical fields. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>1999</b> , 1, 603-609		6

78	Comparative study of photon antibunching of non-stationary fields. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>1999</b> , 1, 511-516		13
77	Interference pattern with a dark center in resonance fluorescence from two atoms driven by a squeezed vacuum field. <i>Optics Communications</i> , <b>1998</b> , 153, 245-250	2	7
76	Two-level atom in a squeezed vacuum with finite bandwidth. <i>Journal of Modern Optics</i> , <b>1998</b> , 45, 1859-1883		21
75	Fock states generation in a kicked cavity with a nonlinear medium. <i>Journal of Modern Optics</i> , <b>1997</b> , 44, 2105-2123	1.1	19
74	Fock states generation in a kicked cavity with a nonlinear medium. <i>Journal of Modern Optics</i> , <b>1997</b> , 44, 2105-2123	1.1	4
73	VI Quantum Phase Properties of Nonlinear Optical Phenomena. <i>Progress in Optics</i> , <b>1996</b> , 35, 355-446	3.4	28
72	Quantum phase properties of the field in a lossless micromaser cavity. <i>Physical Review A</i> , <b>1996</b> , 53, 562-578		14
71	Photon statistics in harmonic generation processes with a weak input chaotic field. <i>European Physical Journal D</i> , <b>1995</b> , 45, 47-58		
70	Phase properties of light propagating in a Kerr medium: Stokes parameters versus Pegg-Barnett predictions. <i>Physical Review A</i> , <b>1995</b> , 51, 1634-1643	2.6	21
69	Phase properties of binomial and negative binomial states. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , <b>1994</b> , 6, 517-526		8
68	Squeezing in two-atom resonance fluorescence induced by two-photon coherences. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , <b>1994</b> , 6, 95-106		4
67	Possibility of producing the one-photon state in a kicked cavity with a nonlinear Kerr medium. <i>Physical Review A</i> , <b>1994</b> , 49, R20-R23	2.6	106
66	Coherent states in a finite-dimensional Hilbert space. <i>Physical Review A</i> , <b>1994</b> , 50, 3423-3426	2.6	36
65	Phase distributions of real field states. <i>Physica Scripta</i> , <b>1993</b> , T48, 53-60	2.6	22
64	. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , <b>1992</b> , 4, 245-263		6
63	Discrete superpositions of coherent states and phase properties of the m-photon anharmonic oscillator. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , <b>1992</b> , 4, 331-342		29
62	Phase properties of fields generated in a multiphoton down-converter. <i>Physical Review A</i> , <b>1992</b> , 45, 5031-5038	2.6	24
61	Phase properties of real field states: The Garrison-Wong versus Pegg-Barnett predictions. <i>Physical Review A</i> , <b>1992</b> , 46, 2870-2876	2.6	19

60	Phase properties of displaced number states. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , <b>1992</b> , 4, 1-7		34
59	Quantum Fluctuations in the Stokes Parameters of Light Propagating in a Kerr Medium with Dissipation. <i>Journal of Modern Optics</i> , <b>1992</b> , 39, 749-760	1.1	6
58	Quantum effects on the polarization of light propagating in a Kerr medium. <i>Optics Communications</i> , <b>1992</b> , 87, 369-377	2	12
57	Phase properties of the two-mode squeezed vacuum states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1991</b> , 152, 251-256	2.3	30
56	Quantum phase fluctuations in the second-harmonic generation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1991</b> , 155, 1-6	2.3	17
55	Phase properties of fractional coherent states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1991</b> , 157, 330-334	2.3	7
54	Phase properties of second harmonics generated by different initial fields. <i>Optics Communications</i> , <b>1991</b> , 83, 278-286	2	7
53	Phase properties of pair coherent states. <i>Optics Communications</i> , <b>1991</b> , 82, 145-152	2	19
52	Quantum phase fluctuations in parametric down-conversion with quantum pump. <i>Optics Communications</i> , <b>1991</b> , 82, 345-350	2	15
51	Quantum phase correlations in nonlinear optical processes. <i>Journal of Soviet Laser Research</i> , <b>1991</b> , 12, 395-414		4
50	Number and phase quantum fluctuations in second harmonic generation. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , <b>1991</b> , 3, 221-237		16
49	Squeezing and its graphical representations in the anharmonic oscillator model. <i>Physical Review A</i> , <b>1991</b> , 43, 4014-4021	2.6	46
48	Phase properties of the field interacting with a three-level atom. II. Two-mode case. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , <b>1991</b> , 3, 255-266		7
47	Discrete superpositions of coherent states and phase properties of elliptically polarized light propagating in a Kerr medium. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , <b>1991</b> , 3, 33-48		46
46	Phase Properties of Elliptically Polarized Light Propagating in a Kerr Medium. <i>Journal of Modern Optics</i> , <b>1991</b> , 38, 1537-1558	1.1	21
45	Phase Properties of Self-squeezed States Generated by the Anharmonic Oscillator. <i>Journal of Modern Optics</i> , <b>1991</b> , 38, 1021-1034	1.1	16
44	Dynamical Properties of the Field Phase in the Jaynes-Cummings Model. <i>Journal of Modern Optics</i> , <b>1991</b> , 38, 2069-2083	1.1	14
43	Effect of additional dc-field coupling on the long-time photoelectron spectrum from a system with double autoionizing levels. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1991</b> , 8, 6	1.7	6

42	Quasi-probability distribution $Q(\alpha)$ versus phase distribution $P(\theta)$ in a description of superpositions of coherent states. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1991</b> , 8, 1576	1.7	49
41	Phase properties of elliptically polarized light propagating in a Kerr medium with dissipation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1991</b> , 8, 2505	1.7	10
40	Phase properties of a damped anharmonic oscillator. <i>Physical Review A</i> , <b>1991</b> , 44, 2086-2093	2.6	36
39	Collapses, revivals, and phase properties of the field in Jaynes-Cummings type models. <i>Optics Communications</i> , <b>1990</b> , 79, 462-468	2	63
38	Role of the higher optical Kerr nonlinearities in self-squeezing of light. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , <b>1990</b> , 2, 23-33		19
37	Quantum Fluctuations in the Stokes Parameters of Light Propagating in a Kerr Medium. <i>Journal of Modern Optics</i> , <b>1990</b> , 37, 1935-1945	1.1	28
36	Generation of discrete superpositions of coherent states in the anharmonic oscillator model. <i>Journal of the European Optical Society Part B: Quantum Optics</i> , <b>1990</b> , 2, 253-265		116
35	Squeezing from an anharmonic oscillator model: $(a^\dagger)^2 a^2$ versus $(a^\dagger + a)^2$ interaction Hamiltonians. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1989</b> , 141, 217-220	2.3	40
34	Collective resonance Raman scattering of an intense laser field with phase and amplitude fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1988</b> , 149, 283-295	3.3	2
33	Second-harmonic generated by self-squeezed light in isotropic medium. The role of light intensity-dependent effects and molecular-statistical structure. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , <b>1988</b> , 45, 249-258		6
32	Amplitude-squared squeezing in two-atom resonance fluorescence. <i>Optics Communications</i> , <b>1988</b> , 69, 20-24	2	6
31	Anomalous coherence functions in collective resonance fluorescence. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , <b>1988</b> , 9, 27-30		4
30	Quantum Beats in Intensity Correlations of Spontaneous Emission from Two Non-identical Atoms. <i>Journal of Modern Optics</i> , <b>1988</b> , 35, 81-91	1.1	7
29	Comment on "Higher-order squeezing from an anharmonic oscillator". <i>Physical Review A</i> , <b>1988</b> , 38, 1091-1093	1.093	13
28	DC-field effects on the photoelectron spectrum from a system with two autoionising levels. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>1988</b> , 21, 2835-2844	1.3	16
27	Photon-counting statistics of squeezed states in collective resonance fluorescence. <i>Journal Physics D: Applied Physics</i> , <b>1988</b> , 21, S131-S133	3	1
26	Effect of DC field coupling on the photoelectron spectrum from double auto-ionising levels. <i>Journal Physics D: Applied Physics</i> , <b>1988</b> , 21, S125-S127	3	9
25	Intensity-dependent Faraday effect as a tool for controlling the process of light self-squeezing. <i>Physical Review A</i> , <b>1987</b> , 36, 5670-5676	2.6	14

24	Laser-induced autoionization from a double Fano system. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1987</b> , 4, 72	1.7	24
23	Squeezing in Second-harmonic Generation. <i>Journal of Modern Optics</i> , <b>1987</b> , 34, 979-996	1.1	15
22	Quantum beats and superradiant effects in the spontaneous emission from two nonidentical atoms. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1987</b> , 146, 452-482	3.3	39
21	Collective jumps in a system of three-level atoms. <i>Optics Communications</i> , <b>1987</b> , 64, 45-48	2	10
20	Cooperative Effects in the Spontaneous Emission from Two Non-identical Atoms. <i>Optica Acta</i> , <b>1986</b> , 33, 1149-1160		30
19	Photon Antibunching and Squeezing. <i>Optica Acta</i> , <b>1985</b> , 32, 1023-1037		26
18	Analytical solutions for light absorption spectra of two driven atoms. <i>Journal of Physics B: Atomic and Molecular Physics</i> , <b>1984</b> , 17, 1491-1501		5
17	Photon antibunching and squeezing in resonance fluorescence of two interacting atoms. <i>Physical Review A</i> , <b>1984</b> , 29, 2004-2011	2.6	45
16	On the Possibility of Almost Complete Self-squeezing of Strong Electromagnetic Fields. <i>Optica Acta</i> , <b>1984</b> , 31, 81-95		31
15	Squeezed states in the transient regime of resonance fluorescence. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1984</b> , 1, 882	1.7	22
14	Self-squeezing of light propagating through nonlinear optically isotropic media. <i>Optics Communications</i> , <b>1983</b> , 45, 351-356	2	65
13	Effect of Interatomic Interactions on Resonance Fluorescence of Two Atoms Coherently Driven by a Strong Resonant Laser Field. <i>Optica Acta</i> , <b>1983</b> , 30, 713-731		29
12	Squeezed states in resonance fluorescence of two interacting atoms. <i>Optics Communications</i> , <b>1983</b> , 46, 23-26	2	11
11	Delayed spectrum of two-level resonance fluorescence. <i>Physical Review A</i> , <b>1982</b> , 26, 892-901	2.6	37
10	Resonance fluorescence spectrum of two atoms, coherently driven by a strong resonant laser field. <i>Optics Communications</i> , <b>1981</b> , 36, 121-126	2	28
9	Finite laser bandwidth effect on n-photon resonance phenomena. <i>Optics Communications</i> , <b>1980</b> , 32, 399-402		3
8	Polarisation dependence of photon antibunching phenomena involving light propagation in isotropic media. <i>Optics Communications</i> , <b>1979</b> , 30, 443-446	2	24
7	Quantum fluctuations in second-harmonic light generation. <i>Optics Communications</i> , <b>1977</b> , 21, 229-231	2	92

6	Second-order correlation tensor of rayleigh light scattered by statistically independent anisotropic microsystems. <i>Molecular Physics</i> , <b>1976</b> , 31, 629-642	1.7	3
5	Depolarization of second-order intensity correlation tensor of light scattered by random orientation of asymmetric particles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1975</b> , 51, 241-243	2.3	2
4	Second-order correlation tensor of n-harmonically scattered light intensity. <i>Optics Communications</i> , <b>1975</b> , 15, 131-134	2	2
3	Second-harmonic light scattering near two-photon resonance. <i>Optics Communications</i> , <b>1975</b> , 14, 173-175	2	3
2	Correlated Superposition States in Two-Atom Systems	215-266	1
1	Quantum Noise in Nonlinear Optical Phenomena	1-77	2