Paulo A Nussenzveig

List of Publications by Year
in descending order

84 papers	2,929 citations	218677 26 h-index	197818 49 g-index
86 all docs	86 docs citations	86 times ranked	2585 citing authors

#	Article	IF	Citations
1	Classical analog of electromagnetically induced transparency. American Journal of Physics, 2002, 70, 37-41.	0.7	547
2	Non-reciprocal phase shift induced by an effective magnetic flux for light. Nature Photonics, 2014, 8, 701-705.	31.4	295
3	From Lamb shift to light shifts: Vacuum and subphoton cavity fields measured by atomic phase sensitive detection. Physical Review Letters, 1994, 72, 3339-3342.	7.8	227
4	Three-Color Entanglement. Science, 2009, 326, 823-826.	12.6	215
5	Generation of Bright Two-Color Continuous Variable Entanglement. Physical Review Letters, 2005, 95, 243603.	7.8	203
6	On-Chip Optical Squeezing. Physical Review Applied, 2015, 3, .	3.8	165
7	Direct Production of Tripartite Pump-Signal-Idler Entanglement in the Above-Threshold Optical Parametric Oscillator. Physical Review Letters, 2006, 97, 140504.	7.8	122
8	Vacuum Rabi Splitting Observed on a Microscopic Atomic Sample in a Microwave Cavity. Europhysics Letters, 1992, 17, 33-38.	2.0	104
9	Preparation of high-principal-quantum-number â€˜â€˜circularâ€™â€™ states of rubidium. Physical Review A, 1993, 48, 3991-3994.	2.5	98
10	Orbital angular momentum exchange in an optical parametric oscillator. Physical Review A, 2004, 70, .	2.5	76
11	Quantum interference between transverse spatial waveguide modes. Nature Communications, 2017, 8, 14010.	12.8	57
12	Robustness of bipartite Gaussian entangled beams propagating in lossy channels. Nature Photonics, 2010, 4, 858-861.	31.4	54
13	Noise spectroscopy of nonlinear magneto-optical resonances in Rb vapor. Physical Review A, 2004, 69, .	2.5	51
14	Simultaneous trapping of two different atomic species in a vapor-cell magneto-optical trap. Physical Review A, 1995, 52, R4340-R4343.	2.5	50
15	Super-Poissonian intensity fluctuations and correlations between pump and probe fields in Electromagnetically Induced Transparency. Europhysics Letters, 2003, 61, 485-491.	2.0	47
16	Disentanglement in bipartite continuous-variable systems. Physical Review A, 2011, 84, .	2.5	44
17	pH-dependent phase transition of chlorpromazine micellar solutions in the physiological range. Biochimica Et Biophysica Acta - Biomembranes, 1988, 944, 185-190.	2.6	43
18	Visible nonlinear photonics via high-order-mode dispersion engineering. Optica, 2020, 7, 135.	9.3	43

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19	Entanglement in the above-threshold optical parametric oscillator. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 249.	2.1	32
20	Tunable squeezing using coupled ring resonators on a silicon nitride chip. Optics Letters, 2016, 41, 223.	3.3	32
21	Laser-noise-induced correlations and anti-correlations in electromagnetically induced transparency. European Physical Journal D, 2007, 41, 531-539.	1.3	30
22	Hexapartite Entanglement in an above-Threshold Optical Parametric Oscillator. Physical Review Letters, 2018, 121, 073601.	7.8	30
23	Nonlocal de Broglie wavelength of a two-particle system. Physical Review A, 2001, 63, .	2.5	28
24	Four-wave mixing with Rydberg levels in rubidium vapor: Observation of interference fringes. Physical Review A, 2001, 63, .	2.5	28
25	Experimental observation of three-color optical quantum correlations. Optics Letters, 2007, 32, 695.	3.3	28
26	Extra phase noise from thermal fluctuations in nonlinear optical crystals. Physical Review A, 2009, 79, .	2.5	28
27	Testing the entanglement of intense beams produced by a non-degenerate optical parametric oscillator. Optics Communications, 2004, 242, 551-563.	2.1	27
28	Quantum state reconstruction of spectral field modes: Homodyne and resonator detection schemes. Physical Review A, 2013, 88, .	2.5	24
29	Beyond Spectral Homodyne Detection: Complete Quantum Measurement of Spectral Modes of Light. Physical Review Letters, 2013, 111, 200402.	7.8	23
30	The quest for three-color entanglement: experimental investigation of new multipartite quantum correlations. Optics Express, 2007, 15, 18236.	3.4	22
31	Parametric sideband generation in CMOS-compatible oscillators from visible to telecom wavelengths. Optica, 2021, 8, 316.	9.3	22
32	Quantum Noise Correlations of an Optical Parametric Oscillator Based on a Nondegenerate Four Wave Mixing Process in Hot Alkali Atoms. Physical Review Letters, 2020, 125, 083601.	7.8	17
33	Numerical investigation of the quantum fluctuations of optical fields transmitted through an atomic medium. Physical Review A, 2008, 77, .	2.5	15
34	Polarization dependence and interference in four-wave mixing with Rydberg levels in rubidium vapor. Physical Review A, 1998, 58, 3000-3003.	2.5	14
35	Classical and quantum properties of optical parametric oscillators. Brazilian Journal of Physics, 2001, 31, 597-615.	1.4	13
36	Orbital angular momentum exchange in parametric down conversion. Journal of Modern Optics, 2006, 53, 647-658.	1.3	13

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37	Physical interpretation for the correlation spectra of electromagnetically-induced-transparency resonances. Optics Express, 2013, 21, 1512.	3.4	12
38	Hyperfine-changing collision measurements in trap loss for mixed species in a magneto-optical trap. Physical Review A, 1999, 60, 3892-3895.	2.5	10
39	Manipulation of Cold Atomic Collisions by Cavity QED Effects. Physical Review Letters, 2001, 86, 1474-1477.	7.8	6
40	Analyzing the Gaussian character of the spectral quantum state of light via quantum noise measurements. Physical Review A, 2015, 92, .	2.5	6
41	Integrity: misconduct by a few damages credibility for many. Nature, 2008, 454, 574-574.	27.8	5
42	Third-order nonlinearity OPO: Schmidt mode decomposition and tripartite entanglement. Optics Letters, 2017, 42, 4865.	3.3	5
43	Exploring six modes of an optical parametric oscillator. Physical Review A, 2018, 98, .	2.5	4
44	Assumption-free measurement of the quantum state of light: Exploring the sidebands of intense fields. Physical Review A, 2020, 102, .	2.5	3
45	Observation of an effective magnetic field for light. , 2014, , .		2
46	Correlation spectroscopy in cold atoms: Light sideband resonances in electromagnetically-induced-transparency condition. Physical Review A, 2016, 94, .	2.5	2
47	Probing light forces on cold atoms by noise correlation spectroscopy. Physical Review A, 2018, 98, .	2.5	2
48	Statistical properties of macroscopic laser fields after coherent interaction with an atomic vapour. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S518-S523.	1.4	1
49	Entanglement and quantum correlations in the optical parametric oscillator above threshold. Journal of Physics: Conference Series, 2007, 84, 012003.	0.4	1
50	Near-Visible Microresonator-Based Soliton Combs. , 2019, , .		1
51	Nonlocal de Broglie Wavelength of a Two-Photon System. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2001, 56, 191-196.	1.5	0
52	Collective Rabi oscillations and cold collisions. Optics Communications, 2001, 196, 207-214.	2.1	0
53	Experimental evidence of entanglement between intense beams produced by a non-degenerate OPO above threshold. , 0, , .		0
54	Laser-noise-induced correlations in electromagnetically induced transparency. , 2007, , .		0

#	Article	IF	Citations
55	Experimental three-color optical quantum correlations. , 2007, , .		0
56	Entanglement and noise in the above-threshold optical parametric oscillator. , 2007, , .		0
57	Direct production of three entangled fields at different wavelengths. , 2009, , .		0
58	Direct Production of Three Entangled Fields at Different Wavelengths. , 2009, , .		0
59	A Drop of Quantum Matter. Science, 2010, 328, 1491-1492.	12.6	0
60	Entanglement among bright light beams: Creation, structure, sudden death. , 2011, , .		0
61	Robustness of bipartite Gaussian entanglement subject to channel losses. , 2011, , .		0
62	Inducing electro-optic photonic transitions for enabling isolation in silicon photonics. , 2013, , .		0
63	Demonstration of Squeezing on chip. , 2013, , .		0
64	Observation of On-Chip Optical Squeezing. , 2013, , .		0
65	Multimode Correlations in Chip-based Frequency Combs. , 2014, , .		0
66	Hong-Ou-Mandel Interference between Transverse Spatial Waveguide Modes. , 2015, , .		0
67	Cold collision control in Cavity QED. , 2003, , 481-482.		0
68	Bright Entangled Beams from an Above-Threshold Optical Parametric Oscillator. , 2007, , .		0
69	Correlations and Anti-Correlations in EIT: Laser Noise Versus Atomic Dipole Noise. , 2007, , .		0
70	Quantum Key Distribution with Bright Twin Beams. , 2007, , .		0
71	Triple Quantum Correlations from an Above-Threshold Optical Parametric Oscillator. , 2008, , .		0
72	A Neglected Noise Source in Quantum Optics. , 2009, , .		0

#	Article	IF	Citations
73	Multicolor Continuous-Variable Entanglement. , 2010, , .		0
74	The Optical Parametric Oscillator: a Bright and Colorful Entangler. , 2011, , .		0
75	Structure of tripartite entanglement among light beams. , 2012, , .		0
76	Continuous-Variable Measurements of Non-Classical Light. , 2012, , .		0
77	Direct generation and characterization of continuous-variable multipartite entanglement. , 2013, , .		0
78	Eliminating Structural Loss in Optomechanical Resonators Using Elastic Wave Interference. , 2013, , .		0
79	Spectral homodyne detection, resonator detection, and entanglement in the above-threshold OPO. , 2014, , .		0
80	On-chip optical squeezing and quantum correlations. , 2014, , .		0
81	Quantum noise revisited: complete measurement of spectral field modes. , 2014, , .		0
82	Towards Multicolor Quantum Correlations in On-chip Frequency Combs. , 2014, , .		0
83	Tunable Squeezing Using Coupled Ring Resonators on a Silicon Nitride Chip. , 2015, , .		0
84	Broadband enhancement of thermal radiation. Optics Express, 2019, 27, A818.	3.4	0