

# Paulo A Nussenzveig

## List of Publications by Year in descending order

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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	Parametric sideband generation in CMOS-compatible oscillators from visible to telecom wavelengths. <i>Optica</i> , 2021, 8, 316.	9.3	22
2	Quantum Noise Correlations of an Optical Parametric Oscillator Based on a Nondegenerate Four Wave Mixing Process in Hot Alkali Atoms. <i>Physical Review Letters</i> , 2020, 125, 083601.	7.8	17
3	Assumption-free measurement of the quantum state of light: Exploring the sidebands of intense fields. <i>Physical Review A</i> , 2020, 102, .	2.5	3
4	Visible nonlinear photonics via high-order-mode dispersion engineering. <i>Optica</i> , 2020, 7, 135.	9.3	43
5	Near-Visible Microresonator-Based Soliton Combs. , 2019, , .		1
6	Broadband enhancement of thermal radiation. <i>Optics Express</i> , 2019, 27, A818.	3.4	0
7	Probing light forces on cold atoms by noise correlation spectroscopy. <i>Physical Review A</i> , 2018, 98, .	2.5	2
8	Exploring six modes of an optical parametric oscillator. <i>Physical Review A</i> , 2018, 98, .	2.5	4
9	Hexapartite Entanglement in an above-Threshold Optical Parametric Oscillator. <i>Physical Review Letters</i> , 2018, 121, 073601.	7.8	30
10	Quantum interference between transverse spatial waveguide modes. <i>Nature Communications</i> , 2017, 8, 14010.	12.8	57
11	Third-order nonlinearity OPO: Schmidt mode decomposition and tripartite entanglement. <i>Optics Letters</i> , 2017, 42, 4865.	3.3	5
12	Correlation spectroscopy in cold atoms: Light sideband resonances in electromagnetically-induced-transparency condition. <i>Physical Review A</i> , 2016, 94, .	2.5	2
13	Tunable squeezing using coupled ring resonators on a silicon nitride chip. <i>Optics Letters</i> , 2016, 41, 223.	3.3	32
14	Analyzing the Gaussian character of the spectral quantum state of light via quantum noise measurements. <i>Physical Review A</i> , 2015, 92, .	2.5	6
15	On-Chip Optical Squeezing. <i>Physical Review Applied</i> , 2015, 3, .	3.8	165
16	Hong-Ou-Mandel Interference between Transverse Spatial Waveguide Modes. , 2015, , .		0
17	Tunable Squeezing Using Coupled Ring Resonators on a Silicon Nitride Chip. , 2015, , .		0
18	Observation of an effective magnetic field for light. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
19	Non-reciprocal phase shift induced by an effective magnetic flux for light. Nature Photonics, 2014, 8, 701-705.	31.4	295
20	Multimode Correlations in Chip-based Frequency Combs. , 2014, , .		0
21	Spectral homodyne detection, resonator detection, and entanglement in the above-threshold OPO. , 2014, , .		0
22	On-chip optical squeezing and quantum correlations. , 2014, , .		0
23	Quantum noise revisited: complete measurement of spectral field modes. , 2014, , .		0
24	Towards Multicolor Quantum Correlations in On-chip Frequency Combs. , 2014, , .		0
25	Beyond Spectral Homodyne Detection: Complete Quantum Measurement of Spectral Modes of Light. Physical Review Letters, 2013, 111, 200402.	7.8	23
26	Quantum state reconstruction of spectral field modes: Homodyne and resonator detection schemes. Physical Review A, 2013, 88, .	2.5	24
27	Inducing electro-optic photonic transitions for enabling isolation in silicon photonics. , 2013, , .		0
28	Demonstration of Squeezing on chip. , 2013, , .		0
29	Physical interpretation for the correlation spectra of electromagnetically-induced-transparency resonances. Optics Express, 2013, 21, 1512.	3.4	12
30	Observation of On-Chip Optical Squeezing. , 2013, , .		0
31	Direct generation and characterization of continuous-variable multipartite entanglement. , 2013, , .		0
32	Eliminating Structural Loss in Optomechanical Resonators Using Elastic Wave Interference. , 2013, , .		0
33	Structure of tripartite entanglement among light beams. , 2012, , .		0
34	Continuous-Variable Measurements of Non-Classical Light. , 2012, , .		0
35	Entanglement among bright light beams: Creation, structure, sudden death. , 2011, , .		0
36	Disentanglement in bipartite continuous-variable systems. Physical Review A, 2011, 84, .	2.5	44

#	ARTICLE	IF	CITATIONS
37	Robustness of bipartite Gaussian entanglement subject to channel losses. , 2011, , .		0
38	The Optical Parametric Oscillator: a Bright and Colorful Entangler. , 2011, , .		0
39	Robustness of bipartite Gaussian entangled beams propagating in lossy channels. Nature Photonics, 2010, 4, 858-861.	31.4	54
40	A Drop of Quantum Matter. Science, 2010, 328, 1491-1492.	12.6	0
41	Multicolor Continuous-Variable Entanglement. , 2010, , .		0
42	Extra phase noise from thermal fluctuations in nonlinear optical crystals. Physical Review A, 2009, 79, .	2.5	28
43	Direct production of three entangled fields at different wavelengths. , 2009, , .		0
44	Three-Color Entanglement. Science, 2009, 326, 823-826.	12.6	215
45	Direct Production of Three Entangled Fields at Different Wavelengths. , 2009, , .		0
46	A Neglected Noise Source in Quantum Optics. , 2009, , .		0
47	Integrity: misconduct by a few damages credibility for many. Nature, 2008, 454, 574-574.	27.8	5
48	Numerical investigation of the quantum fluctuations of optical fields transmitted through an atomic medium. Physical Review A, 2008, 77, .	2.5	15
49	Triple Quantum Correlations from an Above-Threshold Optical Parametric Oscillator. , 2008, , .		0
50	Laser-noise-induced correlations in electromagnetically induced transparency. , 2007, , .		0
51	Entanglement and quantum correlations in the optical parametric oscillator above threshold. Journal of Physics: Conference Series, 2007, 84, 012003.	0.4	1
52	Experimental three-color optical quantum correlations. , 2007, , .		0
53	Entanglement and noise in the above-threshold optical parametric oscillator. , 2007, , .		0
54	Experimental observation of three-color optical quantum correlations. Optics Letters, 2007, 32, 695.	3.3	28

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55	Entanglement in the above-threshold optical parametric oscillator. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 249.	2.1	32
56	The quest for three-color entanglement: experimental investigation of new multipartite quantum correlations. Optics Express, 2007, 15, 18236.	3.4	22
57	Laser-noise-induced correlations and anti-correlations in electromagnetically induced transparency. European Physical Journal D, 2007, 41, 531-539.	1.3	30
58	Bright Entangled Beams from an Above-Threshold Optical Parametric Oscillator. , 2007, , .		0
59	Correlations and Anti-Correlations in EIT: Laser Noise Versus Atomic Dipole Noise. , 2007, , .		0
60	Quantum Key Distribution with Bright Twin Beams. , 2007, , .		0
61	Direct Production of Tripartite Pump-Signal-Idler Entanglement in the Above-Threshold Optical Parametric Oscillator. Physical Review Letters, 2006, 97, 140504.	7.8	122
62	Orbital angular momentum exchange in parametric down conversion. Journal of Modern Optics, 2006, 53, 647-658.	1.3	13
63	Generation of Bright Two-Color Continuous Variable Entanglement. Physical Review Letters, 2005, 95, 243603.	7.8	203
64	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
65	Orbital angular momentum exchange in an optical parametric oscillator. Physical Review A, 2004, 70, .	2.5	76
66	Noise spectroscopy of nonlinear magneto-optical resonances in Rb vapor. Physical Review A, 2004, 69, .	2.5	51
67	Testing the entanglement of intense beams produced by a non-degenerate optical parametric oscillator. Optics Communications, 2004, 242, 551-563.	2.1	27
68	Super-Poissonian intensity fluctuations and correlations between pump and probe fields in Electromagnetically Induced Transparency. Europhysics Letters, 2003, 61, 485-491.	2.0	47
69	Cold collision control in Cavity QED. , 2003, , 481-482.		0
70	Classical analog of electromagnetically induced transparency. American Journal of Physics, 2002, 70, 37-41.	0.7	547
71	Classical and quantum properties of optical parametric oscillators. Brazilian Journal of Physics, 2001, 31, 597-615.	1.4	13
72	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

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73	Collective Rabi oscillations and cold collisions. Optics Communications, 2001, 196, 207-214.	2.1	0
74	Nonlocal de Broglie wavelength of a two-particle system. Physical Review A, 2001, 63, .	2.5	28
75	Four-wave mixing with Rydberg levels in rubidium vapor: Observation of interference fringes. Physical Review A, 2001, 63, .	2.5	28
76	Manipulation of Cold Atomic Collisions by Cavity QED Effects. Physical Review Letters, 2001, 86, 1474-1477.	7.8	6
77	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
78	Polarization dependence and interference in four-wave mixing with Rydberg levels in rubidium vapor. Physical Review A, 1998, 58, 3000-3003.	2.5	14
79	Simultaneous trapping of two different atomic species in a vapor-cell magneto-optical trap. Physical Review A, 1995, 52, R4340-R4343.	2.5	50
80	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
81	Preparation of high-principal-quantum-number $\tilde{c}$ circular $\tilde{c}$ states of rubidium. Physical Review A, 1993, 48, 3991-3994.	2.5	98
82	Vacuum Rabi Splitting Observed on a Microscopic Atomic Sample in a Microwave Cavity. Europhysics Letters, 1992, 17, 33-38.	2.0	104
83	pH-dependent phase transition of chlorpromazine micellar solutions in the physiological range. Biochimica Et Biophysica Acta - Biomembranes, 1988, 944, 185-190.	2.6	43
84	Experimental evidence of entanglement between intense beams produced by a non-degenerate OPO above threshold. , 0, , .		0