Marco Bellini

List of Publications by Year
in descending order

146 papers	5,015 citations	117625 34 h-index	95266 68 g-index
148 all docs	148 docs citations	148 times ranked	3045 citing authors

#	Article	IF	Citations
1	Nonclassicality Phase-Space Inequalities: Theory and Experiment. , 2021, , .		0
2	Generating Discorrelated States for Quantum Information Protocols by Coherent Multimode Photon Addition. Advanced Quantum Technologies, 2021, 4, 2000141.	3.9	3
3	Identifying nonclassicality from experimental data using artificial neural networks. Physical Review Research, 2021, 3, .	3.6	4
4	Coherent Superpositions of Photon Creation Operations and Their Application to Multimode States of Light. Entropy, 2021, 23, 999.	2.2	5
5	Experimental Certification of Nonclassicality via Phase-Space Inequalities. Physical Review Letters, 2021, 126, 023605.	7.8	16
6	Using Coherent Multimode Photon Addition for Sensing a Remote Phase. , 2021, , .		0
7	Nonclassical Phase-Space Correlations in Theory and Experiment. , 2021, , .		0
8	Fabrication and First Full Characterisation of Timing Properties of 3D Diamond Detectors. Instruments, 2021, 5, 39.	1.8	3
9	Intercalibration of a polycrystalline 3D diamond detector for small field dosimetry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162730.	1.6	4
10	Fabrication and Characterisation of 3D Diamond Pixel Detectors With Timing Capabilities. Frontiers in Physics, 2020, 8, .	2.1	10
11	Roadmap on quantum light spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 072002.	1.5	101
12	Entangling Macroscopic Light States by Delocalized Photon Addition. Physical Review Letters, 2020, 124, 033604.	7.8	34
13	Entanglement Generation by Delocalized Single-Photon Addition. , 2019, , .		0
14	Multiphoton Entanglement by Delocalized Single Photon Addition. , 2019, , .		1
15	Field Trial of a Finite-Key Quantum Key Distribution System in the Metropolitan Florence Area. , 2019, , .		3
16	Field trial of a three-state quantum key distribution scheme in the Florence metropolitan area. EPJ Quantum Technology, 2019, 6, .	6.3	43
17	Macroscopic entangled states by delocalized single-photon addition. , 2019, , .		2
18	Quantum Light State Engineering and Entanglement Generation by Multimode Photon Addition. , 2018, , .		0

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19	Quiet moments in time. Nature, 2017, 541, 292-293.	27.8	0
20	Evaluation of a 3D diamond detector for medical radiation dosimetry. Journal of Instrumentation, 2017, 12, P01003-P01003.	1.2	7
21	Ultimate Limit in the Spectral Resolution of Extreme Ultraviolet Frequency Combs. Physical Review Letters, 2017, 118, 143201.	7.8	5
22	Conditional Hybrid Nonclassicality. Physical Review Letters, 2017, 119, 120403.	7.8	22
23	Measurement-Induced Strong Kerr Nonlinearity for Weak Quantum States of Light. Physical Review Letters, 2017, 119, 013601.	7.8	30
24	Experimental quantum tomography of a homodyne detector. New Journal of Physics, 2017, 19, 053015.	2.9	29
25	Disorder and dephasing as control knobs for light transport in optical fiber cavity networks. Scientific Reports, 2016, 6, 37791.	3.3	12
26	Efficient noiseless linear amplification for light fields with larger amplitudes. Optics Express, 2016, 24, 1331.	3.4	12
27	Photoionization of monocrystalline CVD diamond irradiated with ultrashort intense laser pulse. Physical Review B, 2016, 93, .	3.2	31
28	Universal Continuous-Variable State Orthogonalizer and Qubit Generator. Physical Review Letters, 2016, 116, 110501.	7.8	17
29	Zero-Area Single-Photon Pulses. Physical Review Letters, 2016, 116, 023602.	7.8	20
30	Observation of Noise-Assisted Transport in an All-Optical Cavity-Based Network. Physical Review Letters, 2015, 115, 083601.	7.8	52
31	Polycrystalline diamond detectors with three-dimensional electrodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 796, 42-46.	1.6	11
32	Properties of hybrid entanglement between discrete- and continuous-variable states of light. Physica Scripta, 2015, 90, 074045.	2.5	11
33	Micro-beam and pulsed laser beam techniques for the micro-fabrication of diamond surface and bulk structures. Nuclear Instruments & Methods in Physics Research B, 2015, 348, 191-198.	1.4	3
34	An ultrastable Michelson interferometer for high-resolution spectroscopy in the XUV. Optics Express, 2015, 23, 4106.	3.4	6
35	Radiation hardness of three-dimensional polycrystalline diamond detectors. Applied Physics Letters, 2015, 106, .	3.3	37
36	Femtosecond source of unbalanced polarization-entangled photons. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1670.	2.1	2

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37	Experimental hybrid entanglement between quantum and classical states of light. International Journal of Quantum Information, 2014, 12, 1560015.	1.1	5
38	Heralded noiseless amplification and attenuation of non-Gaussian states of light. Physical Review A, 2014, 89, .	2.5	34
39	Electrical and Raman-imaging characterization of laser-made electrodes for 3D diamond detectors. Diamond and Related Materials, 2014, 43, 23-28.	3.9	54
40	Generation of hybrid entanglement of light. Nature Photonics, 2014, 8, 564-569.	31.4	156
41	Domain-Engineered Ferroelectric Crystals for Nonlinear and Quantum Optics. Springer Series in Materials Science, 2014, , 285-311.	0.6	0
42	Single-photon-added coherent states: estimation of parameters and fidelity of the optical homodyne detection. Physica Scripta, 2013, T153, 014025.	2.5	13
43	Three-dimensional diamond detectors: Charge collection efficiency of graphitic electrodes. Applied Physics Letters, 2013, 103, .	3.3	59
44	Quantum Process Nonclassicality. Physical Review Letters, 2013, 110, 160401.	7.8	35
45	Shedding Light on a Quantum Black Box. Physics Magazine, 2013, 6, .	0.1	1
46	The quantum picture of a detector. Nature Photonics, 2012, 6, 350-351.	31.4	2
47	Adaptive Detection of Arbitrarily Shaped Ultrashort Quantum Light States. Physical Review Letters, 2012, 109, 053602.	7.8	63
48	Towards higher precision and operational use of optical homodyne tomograms. Physical Review A, 2012, 85, .	2.5	48
49	Adaptive measurement of the spectral and temporal shape of ultrashort single photons for higher-dimensional quantum information processing. , 2012, , .		0
50	Adaptive Detector for Multimode Quantum Light. , 2012, , .		0
51	Split-pulse spectrometer for absolute XUV frequency measurements. Optics Letters, 2011, 36, 2047.	3.3	5
52	High-fidelity noiseless amplification by photon addition and subtraction. Proceedings of SPIE, 2011, , .	0.8	0
53	A high-fidelity noiseless amplifier for quantum light states. Nature Photonics, 2011, 5, 52-56.	31.4	214
54	Improving Ramsey spectroscopy in the extreme-ultraviolet region with a random-sampling approach. Physical Review A, 2011, 83, .	2.5	3

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55	Nonclassicality quasiprobability of single-photon-added thermal states. Physical Review A, 2011, 83, .	2.5	58
56	Method for High-Resolution Frequency Measurements in the Extreme Ultraviolet Regime: Random-Sampling Ramsey Spectroscopy. Physical Review Letters, 2011, 106, 213003.	7.8	20
57	Coherent superpositions of photon additions and subtractions for noiseless amplification and advanced quantum state manipulation. , 2011, , .		0
58	Ramsey-type spectroscopy in the XUV spectral region. , 2010, , .		0
59	Perspectives of Ramsey schemes based on high-order harmonics for high-resolution XUV spectroscopy. Laser Physics, 2010, 20, 1119-1125.	1.2	4
60	Ramsey spectroscopy of bound atomic states with extreme-ultraviolet laser harmonics. Optics Letters, 2010, 35, 832.	3.3	17
61	Manipulating Light States by Single-Photon Addition and Subtraction. Progress in Optics, 2010, 55, 41-83.	0.6	25
62	Experimental Demonstration of the Bosonic Commutation Relation via Superpositions of Quantum Operations on Thermal Light Fields. Physical Review Letters, 2009, 103, 140406.	7.8	121
63	Conditions for factorizable output from a beam splitter. Physical Review A, 2009, 79, .	2.5	8
64	Probing Quantum Rules By The Experimental Implementation Of Single-Photon Creation And Annihilation Operators. , 2009, , .		1
65	Implementation of single-photon creation and annihilation operators: experimental issues in their application to thermal states of light. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 114005.	1.5	16
66	The ejection of triatomic molecular hydrogen ions H3+ produced by the interaction of benzene molecules with ultrafast laser pulses. Journal of Chemical Physics, 2009, 131, 144308.	3.0	16
67	The Weird Math of Photon Subtraction. Optics and Photonics News, 2009, 20, 35.	0.5	0
68	Manipulating thermal light states by the controlled addition and subtraction of single photons. Laser Physics Letters, 2008, 5, 246-251.	1.4	17
69	Experimental determination of a nonclassical Glauber-SudarshanPfunction. Physical Review A, 2008, 78, .	2.5	86
70	Subtracting photons from arbitrary light fields: experimental test of coherent state invariance by single-photon annihilation. New Journal of Physics, 2008, 10, 123006.	2.9	77
71	Scheme for Proving the Bosonic Commutation Relation Using Single-Photon Interference. Physical Review Letters, 2008, 101, 260401.	7.8	86
72	Extreme-ultraviolet Ramsey-type spectroscopy. Physical Review A, 2008, 78, .	2.5	14

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73	Enhancing the yield of high-order harmonics with an array of gas jets. Physical Review A, 2008, 78, .	2.5	88
74	Toward quantum frequency combs: Boosting the generation of highly nonclassical light states by cavity-enhanced parametric down-conversion at high repetition rates. Physical Review A, 2008, 78, .	2.5	19
75	Optical coherence diagnostics for painting conservation. , 2007, , .		1
76	Probing Quantum Commutation Rules by Addition and Subtraction of Single Photons to/from a Light Field. Science, 2007, 317, 1890-1893.	12.6	374
77	Experimental nonclassicality of single-photon-added thermal light states. Physical Review A, 2007, 75, .	2.5	212
78	Frequency selection of supercontinuum ultrashort pulses using a Fresnel zone plate. Optics Communications, 2007, 270, 336-339.	2.1	5
79	Interferometric measurement of the atomic dipole phase for the two electronic quantum paths generating high-order harmonics. Laser Physics, 2007, 17, 138-142.	1.2	3
80	Thermal Light Manipulation by Addition or Subtraction of Single Photons. , 2007, , .		0
81	Tomographic test of Bellâ€™s inequality for a time-delocalized single photon. Physical Review A, 2006, 74, .	2.5	31
82	Remote Preparation of Arbitrary Time-Encoded Single-Photon Ebits. Physical Review Letters, 2006, 96, 020502.	7.8	55
83	First Interferometric Measurement of the Atomic Dipole Phase in High-Order Harmonic Generation. Acta Physica Hungarica A Heavy Ion Physics, 2006, 26, 343-350.	0.4	0
84	Remotely prepared single-photon time-encoded ebits: homodyne tomography characterization. Journal of Modern Optics, 2006, 53, 2259-2270.	1.3	6
85	Single-photon time-encoded ebits: remote preparation and homodyne tomography characterization. , 2006, , .		0
86	Generation of nonclassical states from thermal radiation. , 2006, , .		1
87	A new tool for painting diagnostics: Optical coherence tomography. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314 rgBT /Over	0.6	30
88	Two-mode homodyne tomography of time-encoded single-photon ebits. Laser Physics, 2006, 16, 1501-1507.	1.2	2
89	Non-classical field characterization by high-frequency, time-domain quantum homodyne tomography. Laser Physics Letters, 2006, 3, 3-16.	1.4	29
90	Direct Interferometric Measurement of the Atomic Dipole Phase in High-Order Harmonic Generation. Physical Review Letters, 2006, 97, 023901.	7.8	41

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91	Generation and Tomographic Analysis of Temporally-delocalized Single Photons. , 2006, , .		0
92	Optical coherence tomography for painting diagnostics. , 2005, , .		5
93	From quantum to classical: watching a single photon become a wave. , 2005, 5866, 278.		0
94	Catching the elementary step of excitation of a coherent light state by a single photon. , 2005, , .		0
95	Supercontinuum and High-Order Harmonics. , 2005, , 29-60.		0
96	Single-photon excitation of a coherent state: Catching the elementary step of stimulated light emission. Physical Review A, 2005, 72, .	2.5	172
97	Recurrent fourth-order interference dips and peaks with a comblike two-photon entangled state. Physical Review A, 2004, 70, .	2.5	12
98	Nonlocal modulations on the temporal and spectral profiles of an entangled photon pair. Physical Review A, 2004, 69, .	2.5	38
99	Tomographic reconstruction of the single-photon Fock state by high-frequency homodyne detection. Physical Review A, 2004, 70, .	2.5	100
100	High resolution spectroscopy in the XUV with pairs of mutually coherent and time-delayed laser harmonics. Laser and Particle Beams, 2004, 22, 199-202.	1.0	3
101	Robustness of phase coherence against amplification in a flashlamp-pumped multi-pass femtosecond laser. Applied Physics B: Lasers and Optics, 2004, 78, 31-34.	2.2	7
102	Quantum-to-Classical Transition with Single-Photon-Added Coherent States of Light. Science, 2004, 306, 660-662.	12.6	615
103	Generation of a variable linear array of phase-coherent supercontinuum sources. Applied Physics B: Lasers and Optics, 2004, 78, 299-304.	2.2	21
104	Comb-like supercontinuum generation in bulk media. Applied Physics Letters, 2004, 85, 1113-1115.	3.3	9
105	Mutual coherence of supercontinuum pulses collinearly generated in bulk media. Applied Physics B: Lasers and Optics, 2003, 77, 285-290.	2.2	30
106	Ramsey-Type Spectroscopy with High-Order Harmonics. Physical Review Letters, 2002, 89, 133002.	7.8	51
107	On the effects of strong ionization in medium-order harmonic generation. Laser and Particle Beams, 2002, 20, 277-284.	1.0	9
108	Time-domain analysis of quantum states of light: noise characterization and homodyne tomography. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1189.	2.1	65

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109	Second-harmonic generation from a picosecond Ti:Sa laser in LBO: conversion efficiency and spatial properties. Applied Physics B: Lasers and Optics, 2002, 75, 53-58.	2.2	12
110	Intermolecular and diffusive dynamics of pure acetonitrile isotopomers studied by depolarized Rayleigh scattering and femtosecond optical kerr effect. European Physical Journal D, 2002, 21, 143-151.	1.3	13
111	High-Order Harmonics and White Light: Looking for Fringes and Finding Much More. , 2002, , 367-379.		0
112	Phase-locked, time-delayed harmonic pulses for high spectral resolution in the extreme ultraviolet. Optics Letters, 2001, 26, 1010.	3.3	20
113	Phase-locked, time-delayed, harmonic pulses for high spectral resolution in the extreme ultraviolet: errata. Optics Letters, 2001, 26, 1729.	3.3	0
114	Towards high-resolution spectroscopy in the XUV with phase-locked harmonic pulses. Laser and Particle Beams, 2001, 19, 29-33.	1.0	1
115	Generation and applications of phase-locked white-light continuum pulses. Laser and Particle Beams, 2001, 19, 157-162.	1.0	1
116	XUV interferometry using high-order harmonics: Application to plasma diagnostics. Laser and Particle Beams, 2001, 19, 35-40.	1.0	7
117	Coherence properties of high-order harmonics: Application to high-density laserâ€“plasma diagnostic. Laser and Particle Beams, 2000, 18, 495-502.	1.0	9
118	Extreme ultraviolet interferometry measurements with high-order harmonics. Optics Letters, 2000, 25, 135.	3.3	91
119	Phase-locked white-light continuum pulses: toward a universal optical frequency-comb synthesizer. Optics Letters, 2000, 25, 1049.	3.3	152
120	Generation of widely tunable harmonic pulses in the UV and VUV from a NIR optical parametric amplifier. Applied Physics B: Lasers and Optics, 2000, 70, 773-776.	2.2	10
121	Temporal coherence of high-order harmonics. Physical Review A, 1999, 60, 4823-4830.	2.5	66
122	Analysis of efficient generation and spatial intensity profiles of high-order harmonic beams produced at high repetition rate. Optics Communications, 1998, 146, 316-324.	2.1	10
123	Temporal Coherence of Ultrashort High-Order Harmonic Pulses. Physical Review Letters, 1998, 81, 297-300.	7.8	338
124	Wave-dispersed two-photon absorption ofC60. Physical Review B, 1997, 56, R10075-R10078.	3.2	27
125	Phase-Locked High-Order Harmonic Sources. Physical Review Letters, 1997, 79, 1006-1009.	7.8	98
126	Relaxation Dynamics of Water and HCl Aqueous Solutions Measured by Time-Resolved Optical Kerr Effect. Journal of Physical Chemistry A, 1997, 101, 7029-7035.	2.5	39

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127	Two-photon Fourier spectroscopy with femtosecond light pulses. Optics Letters, 1997, 22, 540.	3.3	73
128	Harmonic generation in an ionized gas medium with a 100-femtosecond, high repetition rate laser source at intermediate intensities. Applied Physics B: Lasers and Optics, 1997, 64, 323-330.	2.2	4
129	Measurement of the two-photon absorption coefficient of semiconductor nanocrystals by using tunable femtosecond pulses. Optics Letters, 1996, 21, 1490.	3.3	10
130	The Low-Lying Bending Vibration System Î½7of OCCCS Observed at Doppler-Limited Resolution. Journal of Molecular Spectroscopy, 1996, 176, 425-438.	1.2	5
131	Stark and Frequency Measurements in the FIR Spectrum of H2O2. Journal of Molecular Spectroscopy, 1996, 177, 115-123.	1.2	15
132	The rQKa, Branches of Carbodiimide, HNCNH, between 1.8 and 3.3 THz. Journal of Molecular Spectroscopy, 1995, 170, 323-334.	1.2	14
133	The Pure Rotation Spectrum of HOCl in the Submillimeter-Wave Region. Journal of Molecular Spectroscopy, 1995, 172, 559-562.	1.2	14
134	Coherent FIR spectroscopy of molecules of atmospheric interest. Infrared Physics and Technology, 1995, 36, 37-44.	2.9	2
135	Harmonic generation in the VUV region at high repetition rate. Optics Communications, 1995, 121, 73-77.	2.1	3
136	Precise experimental test of models for the breakdown of the Born-Oppenheimer separation: The rotational spectra of isotopic variants of lithium hydride. Physical Review A, 1995, 52, 1954-1960.	2.5	28
137	Pressure Broadening of the 2.4978-THz Rotational Lines of HO2 by N2 and O2. Journal of Molecular Spectroscopy, 1994, 163, 67-70.	1.2	14
138	Far-Infrared Collisional Lineshapes of Lithium Hydride and Deuteride Perturbed by H2 and D2. Journal of Molecular Spectroscopy, 1994, 163, 510-514.	1.2	5
139	The Rotational Spectrum of CHF3 in the Submillimeter-Wave and Far-Infrared Region: Observation of the K = 3 Line Splitting. Journal of Molecular Spectroscopy, 1994, 163, 521-528.	1.2	17
140	Laboratory measurements of rotational transitions of lithium hydride in the far-infrared. Astrophysical Journal, 1994, 424, 507.	4.5	19
141	Air-Broadening of Rotational Lines of Ozone in the 1.5-THz Region. Journal of Molecular Spectroscopy, 1993, 161, 581-584.	1.2	8
142	Hyperfine structure and isotope shift in the far-infrared ground-state transitions of atomic oxygen. Physical Review A, 1993, 48, 3757-3760.	2.5	24
143	Tunable far infrared spectroscopy of 16O3 ozone. Journal of Molecular Spectroscopy, 1992, 152, 256-259.	1.2	28
144	Nuclear fusion in excited hydrogen molecules. Zeitschrift FÃ¼r Physik A, Atomic Nuclei, 1990, 337, 207-210.	0.3	0

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145	Generation and tomographic analysis of novel quantum light states. , 0, , .		0
146	Laser-Based Measurements for Time and Frequency Domain Applications. , 0, , .		8