

Marco Bellini

List of Publications by Year in descending order

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146
papers

5,015
citations

117625

34
h-index

95266

68
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148
all docs

148
docs citations

148
times ranked

3045
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum-to-Classical Transition with Single-Photon-Added Coherent States of Light. <i>Science</i> , 2004, 306, 660-662.	12.6	615
2	Probing Quantum Commutation Rules by Addition and Subtraction of Single Photons to/from a Light Field. <i>Science</i> , 2007, 317, 1890-1893.	12.6	374
3	Temporal Coherence of Ultrashort High-Order Harmonic Pulses. <i>Physical Review Letters</i> , 1998, 81, 297-300.	7.8	338
4	A high-fidelity noiseless amplifier for quantum light states. <i>Nature Photonics</i> , 2011, 5, 52-56.	31.4	214
5	Experimental nonclassicality of single-photon-added thermal light states. <i>Physical Review A</i> , 2007, 75, .	2.5	212
6	Single-photon excitation of a coherent state: Catching the elementary step of stimulated light emission. <i>Physical Review A</i> , 2005, 72, .	2.5	172
7	Generation of hybrid entanglement of light. <i>Nature Photonics</i> , 2014, 8, 564-569.	31.4	156
8	Phase-locked white-light continuum pulses: toward a universal optical frequency-comb synthesizer. <i>Optics Letters</i> , 2000, 25, 1049.	3.3	152
9	Experimental Demonstration of the Bosonic Commutation Relation via Superpositions of Quantum Operations on Thermal Light Fields. <i>Physical Review Letters</i> , 2009, 103, 140406.	7.8	121
10	Roadmap on quantum light spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 072002.	1.5	101
11	Tomographic reconstruction of the single-photon Fock state by high-frequency homodyne detection. <i>Physical Review A</i> , 2004, 70, .	2.5	100
12	Phase-Locked High-Order Harmonic Sources. <i>Physical Review Letters</i> , 1997, 79, 1006-1009.	7.8	98
13	Extreme ultraviolet interferometry measurements with high-order harmonics. <i>Optics Letters</i> , 2000, 25, 135.	3.3	91
14	Enhancing the yield of high-order harmonics with an array of gas jets. <i>Physical Review A</i> , 2008, 78, .	2.5	88
15	Experimental determination of a nonclassical Glauber-Sudarshan Pfunction. <i>Physical Review A</i> , 2008, 78, .	2.5	86
16	Scheme for Proving the Bosonic Commutation Relation Using Single-Photon Interference. <i>Physical Review Letters</i> , 2008, 101, 260401.	7.8	86
17	Subtracting photons from arbitrary light fields: experimental test of coherent state invariance by single-photon annihilation. <i>New Journal of Physics</i> , 2008, 10, 123006.	2.9	77
18	Two-photon Fourier spectroscopy with femtosecond light pulses. <i>Optics Letters</i> , 1997, 22, 540.	3.3	73

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19	Temporal coherence of high-order harmonics. <i>Physical Review A</i> , 1999, 60, 4823-4830.	2.5	66
20	Time-domain analysis of quantum states of light: noise characterization and homodyne tomography. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 1189.	2.1	65
21	Adaptive Detection of Arbitrarily Shaped Ultrashort Quantum Light States. <i>Physical Review Letters</i> , 2012, 109, 053602.	7.8	63
22	Three-dimensional diamond detectors: Charge collection efficiency of graphitic electrodes. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	59
23	Nonclassicality quasiprobability of single-photon-added thermal states. <i>Physical Review A</i> , 2011, 83, .	2.5	58
24	Remote Preparation of Arbitrary Time-Encoded Single-Photon Ebits. <i>Physical Review Letters</i> , 2006, 96, 020502.	7.8	55
25	Electrical and Raman-imaging characterization of laser-made electrodes for 3D diamond detectors. <i>Diamond and Related Materials</i> , 2014, 43, 23-28.	3.9	54
26	Observation of Noise-Assisted Transport in an All-Optical Cavity-Based Network. <i>Physical Review Letters</i> , 2015, 115, 083601.	7.8	52
27	Ramsey-Type Spectroscopy with High-Order Harmonics. <i>Physical Review Letters</i> , 2002, 89, 133002.	7.8	51
28	Towards higher precision and operational use of optical homodyne tomograms. <i>Physical Review A</i> , 2012, 85, .	2.5	48
29	Field trial of a three-state quantum key distribution scheme in the Florence metropolitan area. <i>EPJ Quantum Technology</i> , 2019, 6, .	6.3	43
30	Direct Interferometric Measurement of the Atomic Dipole Phase in High-Order Harmonic Generation. <i>Physical Review Letters</i> , 2006, 97, 023901.	7.8	41
31	Relaxation Dynamics of Water and HCl Aqueous Solutions Measured by Time-Resolved Optical Kerr Effect. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7029-7035.	2.5	39
32	Nonlocal modulations on the temporal and spectral profiles of an entangled photon pair. <i>Physical Review A</i> , 2004, 69, .	2.5	38
33	Radiation hardness of three-dimensional polycrystalline diamond detectors. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	37
34	Quantum Process Nonclassicality. <i>Physical Review Letters</i> , 2013, 110, 160401.	7.8	35
35	Heralded noiseless amplification and attenuation of non-Gaussian states of light. <i>Physical Review A</i> , 2014, 89, .	2.5	34
36	Entangling Macroscopic Light States by Delocalized Photon Addition. <i>Physical Review Letters</i> , 2020, 124, 033604.	7.8	34

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37	Tomographic test of Bell's inequality for a time-delocalized single photon. <i>Physical Review A</i> , 2006, 74, .	2.5	31
38	Photoionization of monocrystalline CVD diamond irradiated with ultrashort intense laser pulse. <i>Physical Review B</i> , 2016, 93, .	3.2	31
39	Mutual coherence of supercontinuum pulses collinearly generated in bulk media. <i>Applied Physics B: Lasers and Optics</i> , 2003, 77, 285-290.	2.2	30
40	A new tool for painting diagnostics: Optical coherence tomography. <i>Optics and Spectroscopy (English)</i> Tj ETQq0 0 0 rgBT /Overlock 10	0.6	30
41	Measurement-Induced Strong Kerr Nonlinearity for Weak Quantum States of Light. <i>Physical Review Letters</i> , 2017, 119, 013601.	7.8	30
42	Non-classical field characterization by high-frequency, time-domain quantum homodyne tomography. <i>Laser Physics Letters</i> , 2006, 3, 3-16.	1.4	29
43	Experimental quantum tomography of a homodyne detector. <i>New Journal of Physics</i> , 2017, 19, 053015.	2.9	29
44	Tunable far infrared spectroscopy of 16O3 ozone. <i>Journal of Molecular Spectroscopy</i> , 1992, 152, 256-259.	1.2	28
45	Precise experimental test of models for the breakdown of the Born-Oppenheimer separation: The rotational spectra of isotopic variants of lithium hydride. <i>Physical Review A</i> , 1995, 52, 1954-1960.	2.5	28
46	Wave-dispersed two-photon absorption of C60. <i>Physical Review B</i> , 1997, 56, R10075-R10078.	3.2	27
47	Manipulating Light States by Single-Photon Addition and Subtraction. <i>Progress in Optics</i> , 2010, 55, 41-83.	0.6	25
48	Hyperfine structure and isotope shift in the far-infrared ground-state transitions of atomic oxygen. <i>Physical Review A</i> , 1993, 48, 3757-3760.	2.5	24
49	Conditional Hybrid Nonclassicality. <i>Physical Review Letters</i> , 2017, 119, 120403.	7.8	22
50	Generation of a variable linear array of phase-coherent supercontinuum sources. <i>Applied Physics B: Lasers and Optics</i> , 2004, 78, 299-304.	2.2	21
51	Phase-locked, time-delayed harmonic pulses for high spectral resolution in the extreme ultraviolet. <i>Optics Letters</i> , 2001, 26, 1010.	3.3	20
52	Method for High-Resolution Frequency Measurements in the Extreme Ultraviolet Regime: Random-Sampling Ramsey Spectroscopy. <i>Physical Review Letters</i> , 2011, 106, 213003.	7.8	20
53	Zero-Area Single-Photon Pulses. <i>Physical Review Letters</i> , 2016, 116, 023602.	7.8	20
54	Toward quantum frequency combs: Boosting the generation of highly nonclassical light states by cavity-enhanced parametric down-conversion at high repetition rates. <i>Physical Review A</i> , 2008, 78, .	2.5	19

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55	Laboratory measurements of rotational transitions of lithium hydride in the far-infrared. <i>Astrophysical Journal</i> , 1994, 424, 507.	4.5	19
56	The Rotational Spectrum of CHF ₃ in the Submillimeter-Wave and Far-Infrared Region: Observation of the K = 3 Line Splitting. <i>Journal of Molecular Spectroscopy</i> , 1994, 163, 521-528.	1.2	17
57	Manipulating thermal light states by the controlled addition and subtraction of single photons. <i>Laser Physics Letters</i> , 2008, 5, 246-251.	1.4	17
58	Ramsey spectroscopy of bound atomic states with extreme-ultraviolet laser harmonics. <i>Optics Letters</i> , 2010, 35, 832.	3.3	17
59	Universal Continuous-Variable State Orthogonalizer and Qubit Generator. <i>Physical Review Letters</i> , 2016, 116, 110501.	7.8	17
60	Implementation of single-photon creation and annihilation operators: experimental issues in their application to thermal states of light. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 114005.	1.5	16
61	The ejection of triatomic molecular hydrogen ions H ₃ ⁺ produced by the interaction of benzene molecules with ultrafast laser pulses. <i>Journal of Chemical Physics</i> , 2009, 131, 144308.	3.0	16
62	Experimental Certification of Nonclassicality via Phase-Space Inequalities. <i>Physical Review Letters</i> , 2021, 126, 023605.	7.8	16
63	Stark and Frequency Measurements in the FIR Spectrum of H ₂ O ₂ . <i>Journal of Molecular Spectroscopy</i> , 1996, 177, 115-123.	1.2	15
64	Pressure Broadening of the 2.4978-THz Rotational Lines of HO ₂ by N ₂ and O ₂ . <i>Journal of Molecular Spectroscopy</i> , 1994, 163, 67-70.	1.2	14
65	The rQKa, Branches of Carbodiimide, HNCNH, between 1.8 and 3.3 THz. <i>Journal of Molecular Spectroscopy</i> , 1995, 170, 323-334.	1.2	14
66	The Pure Rotation Spectrum of HOCl in the Submillimeter-Wave Region. <i>Journal of Molecular Spectroscopy</i> , 1995, 172, 559-562.	1.2	14
67	Extreme-ultraviolet Ramsey-type spectroscopy. <i>Physical Review A</i> , 2008, 78, .	2.5	14
68	Intermolecular and diffusive dynamics of pure acetonitrile isotopomers studied by depolarized Rayleigh scattering and femtosecond optical kerr effect. <i>European Physical Journal D</i> , 2002, 21, 143-151.	1.3	13
69	Single-photon-added coherent states: estimation of parameters and fidelity of the optical homodyne detection. <i>Physica Scripta</i> , 2013, T153, 014025.	2.5	13
70	Second-harmonic generation from a picosecond Ti:Sa laser in LBO: conversion efficiency and spatial properties. <i>Applied Physics B: Lasers and Optics</i> , 2002, 75, 53-58.	2.2	12
71	Recurrent fourth-order interference dips and peaks with a comblike two-photon entangled state. <i>Physical Review A</i> , 2004, 70, .	2.5	12
72	Disorder and dephasing as control knobs for light transport in optical fiber cavity networks. <i>Scientific Reports</i> , 2016, 6, 37791.	3.3	12

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73	Efficient noiseless linear amplification for light fields with larger amplitudes. Optics Express, 2016, 24, 1331.	3.4	12
74	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
75	Properties of hybrid entanglement between discrete- and continuous-variable states of light. Physica Scripta, 2015, 90, 074045.	2.5	11
76	Measurement of the two-photon absorption coefficient of semiconductor nanocrystals by using tunable femtosecond pulses. Optics Letters, 1996, 21, 1490.	3.3	10
77	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
78	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
79	Fabrication and Characterisation of 3D Diamond Pixel Detectors With Timing Capabilities. Frontiers in Physics, 2020, 8, .	2.1	10
80	Coherence properties of high-order harmonics: Application to high-density laser-plasma diagnostic. Laser and Particle Beams, 2000, 18, 495-502.	1.0	9
81	On the effects of strong ionization in medium-order harmonic generation. Laser and Particle Beams, 2002, 20, 277-284.	1.0	9
82	Comb-like supercontinuum generation in bulk media. Applied Physics Letters, 2004, 85, 1113-1115.	3.3	9
83	Air-Broadening of Rotational Lines of Ozone in the 1.5-THz Region. Journal of Molecular Spectroscopy, 1993, 161, 581-584.	1.2	8
84	Conditions for factorizable output from a beam splitter. Physical Review A, 2009, 79, .	2.5	8
85	Laser-Based Measurements for Time and Frequency Domain Applications. , 0, , .		8
86	XUV interferometry using high-order harmonics: Application to plasma diagnostics. Laser and Particle Beams, 2001, 19, 35-40.	1.0	7
87	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
88	Evaluation of a 3D diamond detector for medical radiation dosimetry. Journal of Instrumentation, 2017, 12, P01003-P01003.	1.2	7
89	Remotely prepared single-photon time-encoded ebits: homodyne tomography characterization. Journal of Modern Optics, 2006, 53, 2259-2270.	1.3	6
90	An ultrastable Michelson interferometer for high-resolution spectroscopy in the XUV. Optics Express, 2015, 23, 4106.	3.4	6

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91	Far-Infrared Collisional Lineshapes of Lithium Hydride and Deuteride Perturbed by H ₂ and D ₂ . Journal of Molecular Spectroscopy, 1994, 163, 510-514.	1.2	5
92	The Low-Lying Bending Vibration System $\hat{1}\frac{1}{2}7$ of OCCCS Observed at Doppler-Limited Resolution. Journal of Molecular Spectroscopy, 1996, 176, 425-438.	1.2	5
93	Optical coherence tomography for painting diagnostics. , 2005, , .		5
94	Frequency selection of supercontinuum ultrashort pulses using a Fresnel zone plate. Optics Communications, 2007, 270, 336-339.	2.1	5
95	Split-pulse spectrometer for absolute XUV frequency measurements. Optics Letters, 2011, 36, 2047.	3.3	5
96	Experimental hybrid entanglement between quantum and classical states of light. International Journal of Quantum Information, 2014, 12, 1560015.	1.1	5
97	Ultimate Limit in the Spectral Resolution of Extreme Ultraviolet Frequency Combs. Physical Review Letters, 2017, 118, 143201.	7.8	5
98	Coherent Superpositions of Photon Creation Operations and Their Application to Multimode States of Light. Entropy, 2021, 23, 999.	2.2	5
99	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
100	Perspectives of Ramsey schemes based on high-order harmonics for high-resolution XUV spectroscopy. Laser Physics, 2010, 20, 1119-1125.	1.2	4
101	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
102	Identifying nonclassicality from experimental data using artificial neural networks. Physical Review Research, 2021, 3, .	3.6	4
103	Harmonic generation in the VUV region at high repetition rate. Optics Communications, 1995, 121, 73-77.	2.1	3
104	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
105	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
106	Improving Ramsey spectroscopy in the extreme-ultraviolet region with a random-sampling approach. Physical Review A, 2011, 83, .	2.5	3
107	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
108	Field Trial of a Finite-Key Quantum Key Distribution System in the Metropolitan Florence Area. , 2019, , .		3

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109	Generating Discorrelated States for Quantum Information Protocols by Coherent Multimode Photon Addition. <i>Advanced Quantum Technologies</i> , 2021, 4, 2000141.	3.9	3
110	Fabrication and First Full Characterisation of Timing Properties of 3D Diamond Detectors. <i>Instruments</i> , 2021, 5, 39.	1.8	3
111	Coherent FIR spectroscopy of molecules of atmospheric interest. <i>Infrared Physics and Technology</i> , 1995, 36, 37-44.	2.9	2
112	Two-mode homodyne tomography of time-encoded single-photon ebits. <i>Laser Physics</i> , 2006, 16, 1501-1507.	1.2	2
113	The quantum picture of a detector. <i>Nature Photonics</i> , 2012, 6, 350-351.	31.4	2
114	Femtosecond source of unbalanced polarization-entangled photons. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1670.	2.1	2
115	Macroscopic entangled states by delocalized single-photon addition. , 2019, , .		2
116	Towards high-resolution spectroscopy in the XUV with phase-locked harmonic pulses. <i>Laser and Particle Beams</i> , 2001, 19, 29-33.	1.0	1
117	Generation and applications of phase-locked white-light continuum pulses. <i>Laser and Particle Beams</i> , 2001, 19, 157-162.	1.0	1
118	Generation of nonclassical states from thermal radiation. , 2006, , .		1
119	Optical coherence diagnostics for painting conservation. , 2007, , .		1
120	Probing Quantum Rules By The Experimental Implementation Of Single-Photon Creation And Annihilation Operators. , 2009, , .		1
121	Shedding Light on a Quantum Black Box. <i>Physics Magazine</i> , 2013, 6, .	0.1	1
122	Multiphoton Entanglement by Delocalized Single Photon Addition. , 2019, , .		1
123	Nuclear fusion in excited hydrogen molecules. <i>Zeitschrift für Physik A, Atomic Nuclei</i> , 1990, 337, 207-210.	0.3	0
124	Phase-locked, time-delayed, harmonic pulses for high spectral resolution in the extreme ultraviolet: errata. <i>Optics Letters</i> , 2001, 26, 1729.	3.3	0
125	From quantum to classical: watching a single photon become a wave. , 2005, 5866, 278.		0
126	Catching the elementary step of excitation of a coherent light state by a single photon. , 2005, , .		0

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127	Generation and tomographic analysis of novel quantum light states. , 0, , .		0
128	Supercontinuum and High-Order Harmonics. , 2005, , 29-60.		0
129	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
130	Single-photon time-encoded ebits: remote preparation and homodyne tomography characterization. , 2006, , .		0
131	The Weird Math of Photon Subtraction. Optics and Photonics News, 2009, 20, 35.	0.5	0
132	Ramsey-type spectroscopy in the XUV spectral region. , 2010, , .		0
133	High-fidelity noiseless amplification by photon addition and subtraction. Proceedings of SPIE, 2011, , .	0.8	0
134	Quiet moments in time. Nature, 2017, 541, 292-293.	27.8	0
135	Quantum Light State Engineering and Entanglement Generation by Multimode Photon Addition. , 2018, , .		0
136	Entanglement Generation by Delocalized Single-Photon Addition. , 2019, , .		0
137	Nonclassicality Phase-Space Inequalities: Theory and Experiment. , 2021, , .		0
138	High-Order Harmonics and White Light: Looking for Fringes and Finding Much More. , 2002, , 367-379.		0
139	Generation and Tomographic Analysis of Temporally-delocalized Single Photons. , 2006, , .		0
140	Thermal Light Manipulation by Addition or Subtraction of Single Photons. , 2007, , .		0
141	Coherent superpositions of photon additions and subtractions for noiseless amplification and advanced quantum state manipulation. , 2011, , .		0
142	Adaptive measurement of the spectral and temporal shape of ultrashort single photons for higher-dimensional quantum information processing. , 2012, , .		0
143	Adaptive Detector for Multimode Quantum Light. , 2012, , .		0
144	Domain-Engineered Ferroelectric Crystals for Nonlinear and Quantum Optics. Springer Series in Materials Science, 2014, , 285-311.	0.6	0

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145	Using Coherent Multimode Photon Addition for Sensing a Remote Phase. , 2021, , .		0
146	Nonclassical Phase-Space Correlations in Theory and Experiment. , 2021, , .		0