

Fabrizio Piacentini

List of Publications by Year in descending order

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59
papers

686
citations

623699

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59
all docs

59
docs citations

59
times ranked

614
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum characterization of superconducting photon counters. <i>New Journal of Physics</i> , 2012, 14, 085001.	2.9	69
2	Measuring Incompatible Observables by Exploiting Sequential Weak Values. <i>Physical Review Letters</i> , 2016, 117, 170402.	7.8	66
3	Experimental realization of a low-noise heralded single-photon source. <i>Optics Express</i> , 2011, 19, 1484.	3.4	60
4	An extremely low-noise heralded single-photon source: A breakthrough for quantum technologies. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	56
5	Experiment Investigating the Connection between Weak Values and Contextuality. <i>Physical Review Letters</i> , 2016, 116, 180401.	7.8	44
6	Determining the quantum expectation value by measuring a single photon. <i>Nature Physics</i> , 2017, 13, 1191-1194.	16.7	43
7	Mode reconstruction of a light field by multiphoton statistics. <i>Physical Review A</i> , 2013, 88, .	2.5	42
8	Ancilla-Assisted Calibration of a Measuring Apparatus. <i>Physical Review Letters</i> , 2012, 108, 253601.	7.8	36
9	Quantum State Reconstruction Using Binary Data from On/Off Photodetection. <i>Advanced Science Letters</i> , 2011, 4, 1-11.	0.2	35
10	Anomalous weak values and the violation of a multiple-measurement Leggett-Garg inequality. <i>Physical Review A</i> , 2017, 96, .	2.5	26
11	Improved implementation of the Alicki's Van Ryn nonclassicality test for a single particle using single detectors. <i>Physical Review A</i> , 2009, 79, .	2.5	20
12	Investigating the Effects of the Interaction Intensity in a Weak Measurement. <i>Scientific Reports</i> , 2018, 8, 6959.	3.3	16
13	Optimal estimation of entanglement and discord in two-qubit states. <i>Scientific Reports</i> , 2019, 9, 3030.	3.3	15
14	Joint multipartite photon statistics by on/off detection. <i>Optics Letters</i> , 2006, 31, 3508.	3.3	14
15	Metrology for industrial quantum communications: the MIQC project. <i>Metrologia</i> , 2014, 51, S267-S275.	1.2	12
16	Quantum Zeno and Anti-Zeno Probes of Noise Correlations in Photon Polarization. <i>Physical Review Letters</i> , 2022, 129, .	7.8	12
17	Scalable multiplexed detector system for high-rate telecom-band single-photon detection. <i>Review of Scientific Instruments</i> , 2009, 80, 116103.	1.3	11
18	Positive operator-valued measure reconstruction of a beam-splitter tree-based photon-number-resolving detector. <i>Optics Letters</i> , 2015, 40, 1548.	3.3	11

#	ARTICLE	IF	CITATIONS
19	Ti/Au TES AS SUPERCONDUCTING DETECTOR FOR QUANTUM TECHNOLOGIES. International Journal of Quantum Information, 2011, 09, 405-413.	1.1	10
20	Theoretical description and experimental simulation of quantum entanglement near open time-like curves via pseudo-density operators. Nature Communications, 2019, 10, 182.	12.8	9
21	Anomalous weak values via a single photon detection. Light: Science and Applications, 2021, 10, 106.	16.6	8
22	Experimental Test of an Event-Based Corpuscular Model Modification as an Alternative to Quantum Mechanics. Journal of the Physical Society of Japan, 2013, 82, 034004.	1.6	7
23	Anomalous values, Fisher information, and contextuality, in generalized quantum measurements. Quantum Science and Technology, 2020, 5, 025007.	5.8	7
24	Experimental tests of hidden variable theories from dBB to stochastic electrodynamics. Journal of Physics: Conference Series, 2007, 67, 012047.	0.4	6
25	Experimental local realism tests without fair sampling assumption. European Physical Journal D, 2007, 44, 577-580.	1.3	6
26	Constrained MaxLik reconstruction of multimode photon distributions. Journal of Modern Optics, 2009, 56, 196-200.	1.3	6
27	Towards a standard procedure for the measurement of the multi-photon component in a CW telecom heralded single-photon source. Metrologia, 2019, 56, 025004.	1.2	5
28	Temporal teleportation with pseudo-density operators: How dynamics emerges from temporal entanglement. Science Advances, 2021, 7, eabe4742.	10.3	5
29	Non-Monogamy of Spatio-Temporal Correlations and the Black Hole Information Loss Paradox. Entropy, 2020, 22, 228.	2.2	4
30	Emergence of Constructor-Based Irreversibility in Quantum Systems: Theory and Experiment. Physical Review Letters, 2022, 128, 080401.	7.8	4
31	RECENT EXPERIMENTS PERFORMED AT "CARLO NOVERO" LAB AT INRIM ON QUANTUM INFORMATION AND FOUNDATIONS OF QUANTUM MECHANICS. International Journal of Quantum Information, 2007, 05, 265-272.	1.1	3
32	On reconstructing photon statistics by on/off detectors: Toward the multi-partite case. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2007, 103, 90-97.	0.6	3
33	Recent experimental progresses in testing Quantum Mechanics. Journal of Physics: Conference Series, 2011, 306, 012011.	0.4	2
34	Measurement facility for the evaluation of the backscattering in fiber: Realization of an OTDR operating at single photon level. International Journal of Quantum Information, 2014, 12, 1461014.	1.1	2
35	Optimal estimation of parameters of an entangled quantum state. Journal of Physics: Conference Series, 2017, 841, 012033.	0.4	2
36	Protective Measurement – A New Quantum Measurement Paradigm: Detailed Description of the First Realization. Applied Sciences (Switzerland), 2021, 11, 4260.	2.5	2

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37	Quantum and Classical Characterization of Single/Few Photon Detectors. Quantum Matter, 2015, 4, 200-212.	0.2	2
38	Improved multiplexed infrared single photon detectors. , 2008, , .		1
39	Recent tests of realistic models. Journal of Physics: Conference Series, 2009, 174, 012014.	0.4	1
40	Practical Implementation of a Test of Event-Based Corpuscular Model as an Alternative to Quantum Mechanics. Foundations of Physics, 2013, 43, 913-922.	1.3	1
41	Some recent progresses in quantum tomography realised at INRIM. , 2013, , .		1
42	Metrology for Quantum Communication. , 2015, , .		1
43	Tools for quantum information: work at INRIM on characterization of quantum optical states, communication channels, and photo-detectors. , 2007, , .		0
44	Some Recent Tests on Foundations of Quantum Mechanics Performed at INRIM. , 2009, , .		0
45	On/off Detection Method for Reconstructing the Statistics of Quantum Optical States: An Overview. , 2009, , .		0
46	Foundations of Quantum Mechanics: recent developments at INRIM. , 2011, , .		0
47	Entanglement-assisted calibration of a photon-number-resolving detector. , 2012, , .		0
48	On determinism, realism, non-locality and free will. , 2012, , .		0
49	An extremely low-noise heralded single-photon source without temporal post-selection. , 2013, , .		0
50	Reply to Comment on "Experimental Test of an Event-Based Corpuscular Model Modification as an Alternative to Quantum Mechanics": Journal of the Physical Society of Japan, 2013, 82, 086002.	1.6	0
51	Mode reconstruction by multi-photon statistics. , 2013, , .		0
52	Reconstruction of mode structure of faint light sources and its applications. Physica Scripta, 2014, T163, 014024.	2.5	0
53	Towards joint reconstruction of noise and losses in quantum channels. Quantum Measurements and Quantum Metrology, 2016, 3, .	3.3	0
54	Weak measurements: From measuring incompatible observables and testing quantum contextuality to protective measurements. , 2017, , .		0

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55	Review of recent progresses at INRIM on studies on quantum communication. , 2006, , .		0
56	Improved Multiplexed Infrared Detectors for High-Rate Single-Photon Detection. , 2009, , .		0
57	Protective measurements: extracting the expectation value by measuring a single particle. , 2018, , .		0
58	Quantum weak-interaction-based measurement: from sequential weak measurement to protective measurement. , 2018, , .		0
59	Experimental realization of robust weak measurements. , 2020, , .		0