List of Publications by Year in descending order

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ALBERTO RADCHIELLI

#	Article	IF	CITATIONS
1	Quantum optomechanical system in a Mach-Zehnder interferometer. Physical Review A, 2021, 104, .	2.5	1
2	Entropic measurement uncertainty relations for all the infinite components of a spin vector. Journal of Physics Communications, 2020, 4, 055003.	1.2	0
3	Measurement Uncertainty Relations for Discrete Observables: Relative Entropy Formulation. Communications in Mathematical Physics, 2018, 357, 1253-1304.	2.2	20
4	Measurement Uncertainty Relations for Position and Momentum: Relative Entropy Formulation. Entropy, 2017, 19, 301.	2.2	11
5	Quantum Stochastic Equations for an Opto-Mechanical Oscillator with Radiation Pressure Interaction and Non-Markovian Effects. Reports on Mathematical Physics, 2016, 77, 315-333.	0.8	4
6	Quantum Langevin equations for optomechanical systems. New Journal of Physics, 2015, 17, 083004.	2.9	23
7	Stochastic Schrödinger Equations for Markovian and non-Markovian Cases. Open Systems and Information Dynamics, 2014, 21, 1440008.	1.2	10
8	ENTANGLEMENT PROTECTION AND GENERATION UNDER CONTINUOUS MONITORING. QP-PQ, Quantum Probability and White Noise Analysis, 2013, , 17-42.	0.1	1
9	Quantum continuous measurements: The stochastic Schrödinger equations and the spectrum of the output. Quantum Measurements and Quantum Metrology, 2013, 1, 34-56.	3.3	16
10	Quantum trajectories: Memory and continuous observation. Physical Review A, 2012, 86, .	2.5	17
11	Quantum measurements in continuous time, non-Markovian evolutions and feedback. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5364-5385.	3.4	19
12	Quantum stochastic differential equations and continuous measurements: unbounded coefficients. Reports on Mathematical Physics, 2011, 67, 229-254.	0.8	5
13	Jump-diffusion unravelling of a non-Markovian generalized Lindblad master equation. Journal of Mathematical Physics, 2010, 51, 112104.	1.1	12
14	Stochastic SchrĶdinger equations with coloured noise. Europhysics Letters, 2010, 91, 24001.	2.0	25
15	Feedback control of the fluorescence light squeezing. Europhysics Letters, 2009, 85, 14006.	2.0	10
16	Continuous Measurements and Instruments. Lecture Notes in Physics, 2009, , 77-110.	0.7	0
17	Quantum Trajectories and Measurements in Continuous Time. Lecture Notes in Physics, 2009, , .	0.7	162
18	A Two-Level Atom: Heterodyne and Homodyne Spectra. Lecture Notes in Physics, 2009, , 183-220.	0.7	0

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19	The Stochastic SchrĶdinger Equation. Lecture Notes in Physics, 2009, , 11-49.	0.7	1
20	The Stochastic Master Equation: Part II. Lecture Notes in Physics, 2009, , 111-123.	0.7	0
21	Quantum Optical Systems. Lecture Notes in Physics, 2009, , 145-150.	0.7	0
22	A Two-Level Atom: General Setup. Lecture Notes in Physics, 2009, , 151-182.	0.7	0
23	The Stochastic Master Equation: Part I. Lecture Notes in Physics, 2009, , 51-75.	0.7	Ο
24	QUANTUM TRAJECTORIES, FEEDBACK AND SQUEEZING. International Journal of Quantum Information, 2008, 06, 581-587.	1.1	7
25	INFORMATION GAIN IN QUANTUM CONTINUAL MEASUREMENTS. , 2008, , .		1
26	QUANTUM CONTINUOUS MEASUREMENTS: THE SPECTRUM OF THE OUTPUT. , 2008, , .		3
27	ENTROPIC BOUNDS AND CONTINUAL MEASUREMENTS. , 2007, , .		2
28	Continual Measurements in Quantum Mechanics and Quantum Stochastic Calculus. , 2006, , 207-292.		26
29	Instruments and Channels in Quantum Information Theory. Optics and Spectroscopy (English) Tj ETQq1 1 0.784	314 rgBT	/Oyerlock 10
30	On the Asymptotic Behaviour of Some Stochastic Differential Equations for Quantum States. Infinite Dimensional Analysis, Quantum Probability and Related Topics, 2003, 06, 223-243.	0.5	15
31	A quantum stochastic approach to the spectrum of a two-level atom. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, 272-282.	1.4	9
32	Entropy and Information Gain in Quantum Continual Measurements. , 2002, , 49-57.		6
33	Stochastic Differential Equations for Trace-Class Operators and Quantum Continual Measurements. , 2002, , 53-68.		2
34	Quantum stochastic models of two-level atoms and electromagnetic cross sections. Journal of Mathematical Physics, 2000, 41, 7181-7205.	1.1	13
35	On stochastic differential equations and semigroups of probability operators in quantum probability. Stochastic Processes and Their Applications, 1998, 73, 69-86.	0.9	26
36	Photoemissive sources and quantum stochastic calculus. Banach Center Publications, 1998, 43, 53-62.	0.1	1

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37	On the Quantum Theory of Direct Detection. , 1997, , 243-252.		2
38	A note on a formula of the Lévy-Khinchin type in quantum probability. Nagoya Mathematical Journal, 1996, 141, 29-43.	0.8	10
39	On a class of stochastic differential equations used in quantum optics. Milan Journal of Mathematics, 1996, 66, 355-376.	0.1	8
40	Detection theory in quantum optics: stochastic representation. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1996, 8, 133-156.	0.9	22
41	Constructing quantum measurement processes via classical stochastic calculus. Stochastic Processes and Their Applications, 1995, 58, 293-317.	0.9	68
42	Stochastic differential equations anda posteriori states in quantum mechanics. International Journal of Theoretical Physics, 1993, 32, 2221-2233.	1.2	41
43	An analogue of Hunt's representation theorem in quantum probability. Journal of Theoretical Probability, 1993, 6, 231-265.	0.8	12
44	On the quantum theory of measurements continuous in time. Reports on Mathematical Physics, 1993, 33, 21-34.	0.8	12
45	A note on processes on bialgebras, quantum flows, and convolution semigroups of instruments. QP-PQ, Quantum Probability and White Noise Analysis, 1993, , 71-79.	0.1	0
46	Semigroups of Positive–Definite Maps on *-Bialgebras. QP-PQ, Quantum Probability and White Noise Analysis, 1992, , 15-29.	0.1	0
47	Measurements continuous in time and a posteriori states in quantum mechanics. Journal of Physics A, 1991, 24, 1495-1514.	1.6	237
48	A quantum analogue of Hunt's representation theorem for the generator of convolution semigroups on Lie groups. Probability Theory and Related Fields, 1991, 88, 167-194.	1.8	8
49	Detection theory in quantum optics and quantum stochastic calculus. , 1991, , 179-189.		2
50	Applications of quantum stochastic calculus to quantum optics. QP-PQ, Quantum Probability and White Noise Analysis, 1991, , 111-125.	0.1	3
51	Relativistic corrections to the quark-antiquark potential and the quarkonium spectrum. Il Nuovo Cimento A, 1990, 103, 59-83.	0.2	95
52	Some Markov semigroups in quantum probability. Lecture Notes in Mathematics, 1990, , 86-98.	0.2	2
53	Direct and heterodyne detection and other applications of quantum stochastic calculus to quantum optics. Journal of the European Optical Society Part B: Quantum Optics, 1990, 2, 423-441.	1.2	76
54	Probability operators and convolution semigroups of instruments in quantum probability. Probability Theory and Related Fields, 1989, 82, 1-8.	1.8	10

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55	Convolution semigroups in quantum probability and quantum stochastic calculus. Lecture Notes in Mathematics, 1989, , 107-127.	0.2	7
56	On a systematic derivation of the quark-antiquark potential. Nuclear Physics B, 1988, 296, 625-656.	2.5	92
57	Input and output channels in quantum systems and quantum stochastic differential equations. Lecture Notes in Mathematics, 1988, , 37-51.	0.2	9
58	Quantum stochastic differential equations: an application to the electron shelving effect. Journal of Physics A, 1987, 20, 6341-6355.	1.6	41
59	Markovian limit for a reduced operationâ€valued stochastic process. Journal of Mathematical Physics, 1987, 28, 818-826.	1.1	0
60	Measurement theory and stochastic differential equations in quantum mechanics. Physical Review A, 1986, 34, 1642-1649.	2.5	131
61	Comment on "Quantum mechanics of measurements distributed in time. A path-integral formulation". Physical Review D, 1986, 34, 2527-2530.	4.7	6
62	Stochastic processes and continual measurements in quantum mechanics. Lecture Notes in Physics, 1986, , 14-23.	0.7	9
63	On the Quantum Theory of Continuous Measurements. NATO ASI Series Series B: Physics, 1986, , 65-73.	0.2	3
64	Dilations of operation valued stochastic processes. Lecture Notes in Mathematics, 1985, , 57-66.	0.2	13
65	Quantum stochastic calculus, operation valued stochastic processes, and continual measurements in quantum mechanics. Journal of Mathematical Physics, 1985, 26, 2222-2230.	1.1	82
66	Continuous observations in quantum mechanics: An application to gravitational-wave detectors. Physical Review D, 1985, 32, 347-367.	4.7	22
67	Continual Observations in Quantum Mechanics. NATO ASI Series Series B: Physics, 1985, , 321-344.	0.2	3
68	Continual measurements for quantum open systems. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1983, 74, 113-138.	0.2	106
69	Statistics of continuous trajectories in quantum mechanics: Operation-valued stochastic processes. Foundations of Physics, 1983, 13, 779-812.	1.3	92
70	A model for the macroscopic description and continual observations in quantum mechanics. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1982, 72, 79-121.	0.2	232
71	Jahn-Teller effect in crystals: Optical response function and vibronic states. Physica A: Statistical Mechanics and Its Applications, 1982, 110, 451-470.	2.6	1
72	Open-system approach to Jahn-Teller systems. Physical Review B, 1981, 24, 3166-3185.	3.2	6

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73	HOMOGENEOUS BROADENING OF ZERO-PHONON LINES FOR A MULTILEVEL SYSTEM IN A CRYSTAL : THE ROLE OF THE ELECTRON-PHONON INTERACTIONS. Journal De Physique Colloque, 1981, 42, C6-475-C6-477.	0.2	0
74	A new treatment of macroscopic observables in quantum mechanics. Physica A: Statistical Mechanics and Its Applications, 1979, 99, 77-102.	2.6	0
75	Quantum-dynamical semi-groups and nucleon-nucleus scattering. Il Nuovo Cimento A, 1978, 47, 187-199.	0.2	4
76	Quantum mechanics with only positive-time evolution for an isolated system. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1978, 44, 241-264.	0.2	6
77	Instruments and mutual entropies in quantum information. , 0, , .		19