

# Roberto Floreanini

## List of Publications by Year in descending order

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64  
papers

1,703  
citations

361045

20  
h-index

288905

40  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1013  
citing authors

#	ARTICLE	IF	CITATIONS
1	Entanglement and Non-Locality in Quantum Protocols with Identical Particles. Entropy, 2021, 23, 479.	1.1	5
2	Quantum-enhanced measurements without entanglement. Reviews of Modern Physics, 2018, 90, .	16.4	257
3	Generation and detection of squeezed phonons in lattice dynamics by ultrafast optical excitations. New Journal of Physics, 2017, 19, 023032.	1.2	7
4	Photon number statistics uncover the fluctuations in non-equilibrium lattice dynamics. Nature Communications, 2015, 6, 10249.	5.8	23
5	Dissipative dynamics of quantum fluctuations. Annalen Der Physik, 2015, 527, 639-655.	0.9	8
6	Complete Positivity and Thermodynamics in a Driven Open Quantum System. Journal of Statistical Physics, 2015, 159, 1127-1153.	0.5	6
7	Entanglement and algebraic independence in fermion systems. International Journal of Quantum Information, 2014, 12, 1461002.	0.6	6
8	Noise effects in perfect transmission of quantum states. Physical Review A, 2012, 86, .	1.0	5
9	Loss of coherence and memory effects in quantum dynamics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 150201.	0.6	7
10	Non-divisibility and non-Markovianity in a Gaussian dissipative dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2951-2954.	0.9	17
11	Quantum contextuality in $N$ -boson systems. Physical Review A, 2011, 84, .	1.0	2
12	Charge oscillations in superconducting nanodevices coupled to external environments. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1968-1971.	0.9	3
13	Cooper pair boxes weakly coupled to external environments. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 235304.	0.7	9
14	Noise Induced Current in a Double-Well Trap. Open Systems and Information Dynamics, 2008, 15, 143-153.	0.5	2
15	Redfield reduced dynamics and entanglement. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 1625-1632.	0.7	12
16	Extended reduction criterion and lattice states. Journal of Mathematical Physics, 2007, 48, 052103.	0.5	4
17	Tests of Complete Positivity in Fiber Optics. Open Systems and Information Dynamics, 2006, 13, 229-238.	0.5	4
18	OPEN QUANTUM DYNAMICS: COMPLETE POSITIVITY AND ENTANGLEMENT. International Journal of Modern Physics B, 2005, 19, 3063-3139.	1.0	128

#	ARTICLE	IF	CITATIONS
19	Non-Decomposable Quantum Dynamical Semigroups and Bound Entangled States. Open Systems and Information Dynamics, 2004, 11, 325-338.	0.5	29
20	Quantum dynamical semigroups and non-decomposable positive maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 326, 187-198.	0.9	20
21	Quantum Superalgebra, q-oscillator realization. , 2004, , 327-328.		0
22	Environment Induced Entanglement in Markovian Dissipative Dynamics. Physical Review Letters, 2003, 91, 070402.	2.9	347
23	Complete positivity and dissipative factorized dynamics. Journal of Physics A, 2002, 35, L551-L556.	1.6	18
24	The dynamical algebra of the three-body Calogero model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 421, 229-236.	1.5	4
25	Algebraic description of SN-invariant oscillator states. Journal of Mathematical Physics, 1998, 39, 5739-5761.	0.5	4
26	Complete positivity and the neutral kaon system. Banach Center Publications, 1998, 43, 71-85.	0.1	11
27	Testing Complete Positivity. Modern Physics Letters A, 1997, 12, 1465-1472.	0.5	24
28	Symmetry techniques for the Al-Salam - Chihara polynomials. Journal of Physics A, 1997, 30, 3107-3114.	1.6	10
29	A q-deformed $e(4)$ and continuous q-Jacobi polynomials. Journal of Mathematical Physics, 1996, 37, 4135-4149.	0.5	3
30	q-gamma and q-beta functions in quantum algebra representation theory. Journal of Computational and Applied Mathematics, 1996, 68, 57-68.	1.1	17
31	Symmetries of the heat equation on the lattice. Letters in Mathematical Physics, 1996, 36, 351-355.	0.5	41
32	The polynomial $SU(2)$ symmetry algebra of the two-body Calogero model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 389, 327-333.	1.5	25
33	A model for the continuous q-ultraspherical polynomials. Journal of Mathematical Physics, 1995, 36, 3800-3813.	0.5	31
34	An algebraic interpretation of the continuous big q-Hermite polynomials. Journal of Mathematical Physics, 1995, 36, 5091-5097.	0.5	12
35	Quantum algebra approach to q Gegenbauer polynomials. Journal of Computational and Applied Mathematics, 1995, 57, 123-133.	1.1	5
36	Quantum symmetries of q-difference equations. Journal of Mathematical Physics, 1995, 36, 3134-3156.	0.5	30

#	ARTICLE	IF	CITATIONS
37	Lie symmetries of finite-difference equations. Journal of Mathematical Physics, 1995, 36, 7024-7042.	0.5	69
38	Symmetries of the q-difference heat equation. Letters in Mathematical Physics, 1994, 32, 37-44.	0.5	36
39	q-Hypergeometric functions, quantum algebras and free fields. Theoretical and Mathematical Physics(Russian Federation), 1994, 98, 259-265.	0.3	2
40	Generalized $q$ -Bessel functions. Canadian Journal of Physics, 1994, 72, 345-354.	0.4	6
41	q-difference realizations of quantum algebras. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 315, 299-303.	1.5	2
42	Automorphisms of the q-oscillator algebra and basic orthogonal polynomials. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 180, 393-401.	0.9	33
43	On the quantum group and quantum algebra approach to q-special functions. Letters in Mathematical Physics, 1993, 27, 179-190.	0.5	31
44	Quantum Algebras and Quantum Groups in q-Special Function Theory. , 1993, , 83-94.		0
45	A Quantum Algebraic Interpretation of the Basic Hypergeometric Series $r \hat{1} s$ . , 1993, , 235-245.		0
46	The metaplectic representation of $su_q(1,1)$ and the $q$ -Gegenbauer polynomials. Journal of Mathematical Physics, 1992, 33, 1358-1362.	0.5	15
47	Using quantum algebras in q-special function theory. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 170, 21-28.	0.9	16
48	Addition formulas for $q$ -Bessel functions. Journal of Mathematical Physics, 1992, 33, 2984-2988.	0.5	19
49	q-conformal quantum mechanics and q-special functions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 277, 442-446.	1.5	11
50	$q$ -oscillator realizations of the metaplectic representation of quantum $osp(3,2)$ . Journal of Mathematical Physics, 1991, 32, 1427-1429.	0.5	12
51	Infinite dimensional algebras in Chern-Simons quantum mechanics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 261, 51-56.	1.5	10
52	q-Oscillator realizations of the quantum superalgebras $q(m, n)$ and $osp_q(m, 2n)$ . Communications in Mathematical Physics, 1991, 137, 149-160.	1.0	66
53	On the defining relations of quantum superalgebras. Letters in Mathematical Physics, 1991, 23, 127-131.	0.5	53
54	Braid group action on the q-Weyl algebra. Letters in Mathematical Physics, 1991, 23, 151-158.	0.5	3

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55	q-Orthogonal polynomials and the oscillator quantum group. Letters in Mathematical Physics, 1991, 22, 45-54.	0.5	73
56	Parasupersymmetry in quantum mechanics and field theory. Physical Review D, 1991, 44, 3851-3856.	1.6	10
57	Bosonic realization of the quantum superalgebra $ospq(1, 2n)$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 242, 383-386.	1.5	43
58	Symmetries of semiclassical gravity in two dimensions. Physical Review D, 1990, 41, 1862-1866.	1.6	1
59	Schrödinger picture for self-dual superfields. Physical Review D, 1989, 40, 450-455.	1.6	1
60	Conformal parasuperalgebras and their realizations on the line. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 233, 158-162.	1.5	20
61	Sigma models with purely Wess-Zumino-Witten actions. Nuclear Physics B, 1989, 322, 255-276.	0.9	10
62	Functional representation of the superconformal group in two dimensions. Physical Review D, 1988, 38, 543-546.	1.6	6
63	Vacuum state of complex scalar fields in $SO(2,1)$ -invariant backgrounds. Physical Review D, 1987, 36, 1731-1739.	1.6	8
64	Stochastic quantization of non-renormalizable theories. Zeitschrift für Physik C-Particles and Fields, 1985, 27, 447-453.	1.5	0