

Stefan Weigert

List of Publications by Year in descending order

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70
papers

1,337
citations

304743

22
h-index

377865

34
g-index

73
all docs

73
docs citations

73
times ranked

760
citing authors

#	ARTICLE	IF	CITATIONS
1	Paul Busch: Contributions to Quantum Theory. Journal of Physics: Conference Series, 2020, 1638, 012014.	0.4	0
2	Gleason-Type Theorems from Cauchy's Functional Equation. Foundations of Physics, 2019, 49, 594-606.	1.3	3
3	A Gleason-type theorem for qubits based on mixtures of projective measurements. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 055301.	2.1	13
4	Geometry of uncertainty relations for linear combinations of position and momentum. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 025303.	2.1	9
5	Preparational Uncertainty Relations for N Continuous Variables. Mathematics, 2016, 4, 49.	2.2	7
6	Mutually unbiased product bases for multiple qudits. Journal of Mathematical Physics, 2016, 57, .	1.1	9
7	Friction causing unpredictability. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 125102.	2.1	0
8	Universality in uncertainty relations for a quantum particle. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 355303.	2.1	8
9	Heisenberg uncertainty relation for three canonical observables. Physical Review A, 2014, 90, .	2.5	35
10	All mutually unbiased product bases in dimension 6. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 135307.	2.1	14
11	The limited role of mutually unbiased product bases in dimension 6. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 102001.	2.1	25
12	ON THE IMPOSSIBILITY TO EXTEND TRIPLES OF MUTUALLY UNBIASED PRODUCT BASES IN DIMENSION SIX. International Journal of Quantum Information, 2012, 10, 1250056.	1.1	20
13	Isolated Hadamard matrices from mutually unbiased product bases. Journal of Mathematical Physics, 2012, 53, .	1.1	9
14	Affine constellations without mutually unbiased counterparts. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 402002.	2.1	2
15	Mutually unbiased bases and semi-definite programming. Journal of Physics: Conference Series, 2010, 254, 012008.	0.4	23
16	Quantum Groups, Quantum Foundations and Quantum Information: a Festschrift for Tony Sudbery. Journal of Physics: Conference Series, 2010, 254, 011001.	0.4	1
17	All mutually unbiased bases in dimensions two to five. Quantum Information and Computation, 2010, 10, 803-820.	0.3	43
18	Constructing mutually unbiased bases in dimension six. Physical Review A, 2009, 79, .	2.5	74

#	ARTICLE	IF	CITATIONS
19	Quantum Chaos. , 2009, , 514-517.		0
20	Quantum State Reconstruction. , 2009, , 609-611.		0
21	Maximal sets of mutually unbiased quantum states in dimension 6. Physical Review A, 2008, 78, .	2.5	64
22	Mutually unbiased bases for continuous variables. Physical Review A, 2008, 78, .	2.5	28
23	Upper Quantum Lyapunov Exponent and Anosov Relations for Quantum Systems Driven by a Classical Flow. Journal of Statistical Physics, 2007, 127, 699-719.	1.2	5
24	Detecting broken \mathcal{P} -symmetry. Journal of Physics A, 2006, 39, 10239-10246.	1.6	10
25	An algorithmic test for diagonalizability of finite-dimensional \mathcal{PT} -invariant systems. Journal of Physics A, 2006, 39, 235-245.	1.6	5
26	SIMPLE MINIMAL INFORMATIONALLY COMPLETE MEASUREMENTS FOR QUDITS. International Journal of Modern Physics B, 2006, 20, 1942-1955.	2.0	22
27	How to test for diagonalizability: the discretized \mathcal{PT} -invariant square-well potential. European Physical Journal D, 2005, 55, 1183-1186.	0.4	12
28	Expanding Hermitian operators in a basis of projectors on coherent spin states. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, 489-490.	1.4	3
29	The Gram Matrix of a \mathcal{PT} -Symmetric Quantum System. European Physical Journal D, 2004, 54, 147-149.	0.4	12
30	The Physical Interpretation of \mathcal{PT} -invariant Potentials. European Physical Journal D, 2004, 54, 1139-1142.	0.4	15
31	Quantum correlation games. Journal of Physics A, 2004, 37, 5873-5885.	1.6	31
32	$\mathcal{P}\mathcal{T}$ -symmetry and its spontaneous breakdown explained by anti-linearity. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S416-S419.	1.4	18
33	L \ddot{u} rders theorem for coherent-state POVMs. Journal of Mathematical Physics, 2003, 44, 5474.	1.1	2
34	Completeness and orthonormality in \mathcal{PT} -symmetric quantum systems. Physical Review A, 2003, 68, .	2.5	49
35	A quantum search for zeros of polynomials. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, S586-S588.	1.4	1
36	Commensurate harmonic oscillators: Classical symmetries. Journal of Mathematical Physics, 2002, 43, 4110-4126.	1.1	13

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37	Quantum parametric resonance. Journal of Physics A, 2002, 35, 4169-4181.	1.6	13
38	Quantum diagonalization of Hermitean matrices. Journal of Physics A, 2001, 34, 5619-5624.	1.6	2
39	Discrete Q- and P-symbols for spins. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 118-121.	1.4	21
40	Quantum Time Evolution in Terms of Nonredundant Probabilities. Physical Review Letters, 2000, 84, 802-805.	7.8	62
41	Discrete Moyal-type representations for a spin. Physical Review A, 2000, 63, .	2.5	50
42	Contracting the Wigner kernel of a spin to the Wigner kernel of a particle. Physical Review A, 2000, 63, .	2.5	18
43	Coherent states and the reconstruction of pure spin states. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, L5-L8.	1.4	29
44	Reconstructing the density matrix of a spin through Stern-Gerlach measurements: II. Journal of Physics A, 1999, 32, L269-L274.	1.6	33
45	Reconstructing a pure state of a spin through three Stern-Gerlach measurements. Journal of Physics A, 1999, 32, 2777-2784.	1.6	33
46	Gauge Transformations for a Driven Quantum Particle in an Infinite Square Well. Foundations of Physics, 1999, 29, 1785-1805.	1.3	1
47	Solvable three-state model of a driven double-well potential and coherent destruction of tunneling. Physical Review A, 1998, 57, 68-78.	2.5	6
48	Many-path interference and topologically suppressed tunneling. Europhysics Letters, 1998, 42, 599-604.	2.0	2
49	Reconstructing the density matrix of a spin through Stern - Gerlach measurements. Journal of Physics A, 1998, 31, L543-L548.	1.6	16
50	Baker - Campbell - Hausdorff relation for special unitary groups. Journal of Physics A, 1997, 30, 8739-8749.	1.6	29
51	Electric conductivity near the percolation transition of a nonionic water-in-oil microemulsion. Physica A: Statistical Mechanics and Its Applications, 1997, 242, 95-103.	2.6	14
52	How to determine a quantum state by measurements: The Pauli problem for a particle with arbitrary potential. Physical Review A, 1996, 53, 2078-2083.	2.5	39
53	Hamiltonian Chaos IV. Computers in Physics, 1996, 10, 39.	0.5	1
54	Spatial squeezing of the vacuum and the Casimir effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 214, 215-220.	2.1	8

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55	Small denominators, frequency operators, and Lie transforms for nearly integrable quantum spin systems. <i>Physical Review A</i> , 1996, 53, 2971-2982.	2.5	3
56	Landscape of uncertainty in Hilbert space for one-particle states. <i>Physical Review A</i> , 1996, 53, 2084-2088.	2.5	4
57	Frequency shifts of cantilevers vibrating in various media. <i>Applied Physics Letters</i> , 1996, 69, 2834-2836.	3.3	56
58	Quantum integrability and action operators in spin dynamics. <i>Chaos, Solitons and Fractals</i> , 1995, 5, 1419-1438.	5.1	21
59	Quantum Particle on a Rotating Loop: Topological Quenching due to a Coriolis-Aharonov-Bohm Effect. <i>Physical Review Letters</i> , 1995, 75, 1435-1438.	7.8	7
60	Topologically Quenched Tunnel Splitting in a Spin System Obtained from Quantum-Mechanical Perturbation Theory. <i>Europhysics Letters</i> , 1994, 26, 561-564.	2.0	12
61	Topological quenching of the tunnel splitting for a particle in a double-well potential on a planar loop. <i>Physical Review A</i> , 1994, 50, 4572-4581.	2.5	14
62	Diagonalization of multicomponent wave equations with a Born-Oppenheimer example. <i>Physical Review A</i> , 1993, 47, 3506-3512.	2.5	41
63	Adiabatic motion of a neutral spinning particle in an inhomogeneous magnetic field. <i>Physical Review A</i> , 1993, 48, 924-940.	2.5	52
64	Quantum chaos in the configurational quantum cat map. <i>Physical Review A</i> , 1993, 48, 1780-1798.	2.5	19
65	Classical degeneracy and the existence of additional constants of motion. <i>American Journal of Physics</i> , 1993, 61, 272-277.	0.7	6
66	Pauli problem for a spin of arbitrary length: A simple method to determine its wave function. <i>Physical Review A</i> , 1992, 45, 7688-7696.	2.5	51
67	The problem of quantum integrability. <i>Physica D: Nonlinear Phenomena</i> , 1992, 56, 107-119.	2.8	57
68	Chaos and quantum-nondemolition measurements. <i>Physical Review A</i> , 1991, 43, 6597-6603.	2.5	10
69	Optimal Detection of Rotations about Unknown Axes by Coherent and Anticoherent States. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 285.	0.0	15
70	General Probabilistic Theories with a Gleason-type Theorem. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 5, 588.	0.0	7