

Ruediger Schack

List of Publications by Year in descending order

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44
papers

2,225
citations

279798

23
h-index

265206

42
g-index

46
all docs

46
docs citations

46
times ranked

965
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum probabilities as Bayesian probabilities. <i>Physical Review A</i> , 2002, 65, .	2.5	280
2	Unknown quantum states: The quantum de Finetti representation. <i>Journal of Mathematical Physics</i> , 2002, 43, 4537-4559.	1.1	257
3	An introduction to QBism with an application to the locality of quantum mechanics. <i>American Journal of Physics</i> , 2014, 82, 749-754.	0.7	233
4	Quantum-Bayesian coherence. <i>Reviews of Modern Physics</i> , 2013, 85, 1693-1715.	45.6	181
5	Subjective probability and quantum certainty. <i>Studies in History and Philosophy of Science Part B - Studies in History and Philosophy of Modern Physics</i> , 2007, 38, 255-274.	1.4	125
6	Quantum Bayes rule. <i>Physical Review A</i> , 2001, 64, .	2.5	100
7	A Quantum-Bayesian Route to Quantum-State Space. <i>Foundations of Physics</i> , 2011, 41, 345-356.	1.3	100
8	Using a quantum computer to investigate quantum chaos. <i>Physical Review A</i> , 1998, 57, 1634-1635.	2.5	76
9	Information-theoretic characterization of quantum chaos. <i>Physical Review E</i> , 1996, 53, 3257-3270.	2.1	66
10	Classical model for bulk-ensemble NMR quantum computation. <i>Physical Review A</i> , 1999, 60, 4354-4362.	2.5	62
11	Conditions for compatibility of quantum-state assignments. <i>Physical Review A</i> , 2002, 66, .	2.5	60
12	A C++ library using quantum trajectories to solve quantum master equations. <i>Computer Physics Communications</i> , 1997, 102, 210-228.	7.5	59
13	Hypersensitivity to perturbation in the quantum kicked top. <i>Physical Review E</i> , 1994, 50, 972-987.	2.1	56
14	Hypersensitivity to perturbations in the quantum baker's map. <i>Physical Review Letters</i> , 1993, 71, 525-528.	7.8	55
15	QBism and the Greeks: why a quantum state does not represent an element of physical reality. <i>Physica Scripta</i> , 2015, 90, 015104.	2.5	44
16	Chaos for Liouville probability densities. <i>Physical Review E</i> , 1996, 53, 3387-3401.	2.1	37
17	Moment hierarchies and cumulants in quantum optics. <i>Physical Review A</i> , 1990, 41, 3847-3852.	2.5	35
18	Explicit product ensembles for separable quantum states. <i>Journal of Modern Optics</i> , 2000, 47, 387-399.	1.3	32

#	ARTICLE	IF	CITATIONS
19	PositivePrepresentation. Physical Review A, 1991, 44, 682-687.	2.5	29
20	Shifts on a Finite Qubit String: A Class of Quantum Baker's Maps. Applicable Algebra in Engineering, Communications and Computing, 2000, 10, 305-310.	0.5	29
21	Realizing the quantum baker's map on a NMR quantum computer. Physical Review A, 1999, 59, 2649-2658.	2.5	26
22	Quantum-state diffusion with a moving basis: Computing quantum-optical spectra. Physical Review A, 1996, 53, 2694-2697.	2.5	24
23	Entanglement purification of unknown quantum states. Physical Review A, 2001, 63, .	2.5	24
24	Quantum Theory from Four of Hardy's Axioms. Foundations of Physics, 2003, 33, 1461-1468.	1.3	24
25	De Finetti representation theorem for quantum-process tomography. Physical Review A, 2004, 69, .	2.5	22
26	Information and entropy in the baker's map. Physical Review Letters, 1992, 69, 3413-3416.	7.8	20
27	Classical limit in terms of symbolic dynamics for the quantum baker's map. Physical Review E, 2000, 61, 5108-5114.	2.1	20
28	Properties of the frequency operator do not imply the quantum probability postulate. Annals of Physics, 2005, 315, 123-146.	2.8	18
29	Respecting One's Fellow: QBism's Analysis of Wigner's Friend. Foundations of Physics, 2020, 50, 1859-1874.	1.3	18
30	Effects of noise on quantum error correction algorithms. Physical Review A, 1997, 56, 1177-1188.	2.5	17
31	Quantum-nondemolition measurement of small photon numbers and the preparation of number states. Physical Review A, 1992, 45, 3260-3267.	2.5	13
32	5 Unknown Quantum States and Operations,a Bayesian View. Lecture Notes in Physics, 0, , 147-187.	0.7	12
33	Finite de Finetti Theorem for Infinite-Dimensional Systems. Physical Review Letters, 2007, 98, 160406.	7.8	12
34	Algorithmic information and simplicity in statistical physics. International Journal of Theoretical Physics, 1997, 36, 209-226.	1.2	11
35	Homer Nodded: Von Neumann's Surprising Oversight. Foundations of Physics, 2018, 48, 1007-1020.	1.3	11
36	Comment on "Exponential Sensitivity and Chaos in Quantum Systems". Physical Review Letters, 1995, 75, 581-581.	7.8	10

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37	Priors in Quantum Bayesian Inference. , 2009, , .		7
38	A simple necessary decoherence condition for a set of histories. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 326, 307-314.	2.1	4
39	Simulation on a quantum computer. Computer Science - Research and Development, 2006, 21, 21-27.	0.9	4
40	Reply to Nauenberg. American Journal of Physics, 2015, 83, 198-198.	0.7	3
41	Bayesian versus Frequentist Predictions in Quantum Tomography. AIP Conference Proceedings, 2007, , .	0.4	2
42	Preparation information and optimal decompositions for mixed quantum states. Journal of Modern Optics, 2000, 47, 2265-2276.	1.3	1
43	Hypothesis Elimination on a Quantum Computer. AIP Conference Proceedings, 2004, , .	0.4	1
44	Explicit product ensembles for separable quantum states. Journal of Modern Optics, 2000, 47, 387-399.	1.3	1