

Rafael Sala Mayato

List of Publications by Year in descending order

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33
papers

675
citations

623734

14
h-index

552781

26
g-index

35
all docs

35
docs citations

35
times ranked

192
citing authors

#	ARTICLE	IF	CITATIONS
1	Systematic approach to define and classify quantum transmission and reflection times. <i>Physical Review A</i> , 1994, 49, 4312-4325.	2.5	111
2	Transmission and reflection tunneling times. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 167, 24-28.	2.1	74
3	Time-of-arrival distribution for arbitrary potentials and Wigner's time-energy uncertainty relation. <i>Physical Review A</i> , 2000, 61, .	2.5	63
4	The time of arrival concept in quantum mechanics. <i>Superlattices and Microstructures</i> , 1998, 23, 833-842.	3.1	53
5	Wigner trajectories and Liouville's theorem. <i>Journal of Chemical Physics</i> , 1993, 99, 2708-2714.	3.0	43
6	Time-of-arrival distributions from position-momentum and energy-time joint measurements. <i>Physical Review A</i> , 2000, 61, .	2.5	28
7	Comparison of classical and quantal evolution of phase space distribution functions. <i>Physica Scripta</i> , 1993, 47, 732-739.	2.5	27
8	Average local values and local variances in quantum mechanics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1998, 238, 90-94.	2.1	26
9	Equivalence between tunnelling times based on: (a) absorption probabilities, (b) the Larmor clock, and (c) scattering projectors. <i>Journal of Physics Condensed Matter</i> , 1992, 4, L579-L584.	1.8	23
10	Transmission, Reflection, and Interference Contributions to the Tunnelling Dwell Time. <i>Europhysics Letters</i> , 1993, 22, 159-165.	2.0	22
11	Phase space formalisms of quantum mechanics with singular kernel. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 231, 304-310.	2.1	19
12	Are predicted superluminal tunneling times an artifact of using the nonrelativistic Schrödinger equation?. <i>Annalen Der Physik</i> , 1998, 7, 662-670.	2.4	18
13	Quantum time-of-flight measurements: Kicked clock versus continuous clock. <i>Physical Review A</i> , 2003, 67, .	2.5	17
14	Comparison of positive flux operators for transition state theory using a solvable model. <i>Journal of Chemical Physics</i> , 1996, 104, 7015-7026.	3.0	16
15	“Superluminal” transmission via entanglement, superoscillations, and quasi-Dirac distributions. <i>Physical Review A</i> , 2010, 81, .	2.5	15
16	Path summation and von Neumann-like quantum measurements. <i>Physical Review A</i> , 2005, 71, .	2.5	11
17	Discriminating between the von Neumann and Lüders reduction rule. <i>Physical Review A</i> , 2012, 85, .	2.5	11
18	Quantal methods for classical dynamics in Liouville space. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 192, 180-184.	2.1	10

#	ARTICLE	IF	CITATIONS
19	Path integrals, the ABL rule and the three-box paradox. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 6578-6583.	2.1	10
20	Wigner function for the square barrier. <i>Solid State Communications</i> , 1995, 94, 877-882.	1.9	9
21	The influence functional: application to tunnelling. <i>Journal of Physics A</i> , 1995, 28, 6233-6244.	1.6	8
22	Simultaneous histories, path sums, and measurements for noncommuting variables. <i>Physical Review A</i> , 2006, 73, .	2.5	8
23	Feynman-path analysis of Hardy's paradox: Measurements and the uncertainty principle. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 3784-3791.	2.1	8
24	On constructing the wave function of a quantum particle from its Wigner phase-space distribution function. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2001, 280, 163-172.	2.1	7
25	Discrimination of measurement contexts in quantum mechanics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 3167-3170.	2.1	6
26	General N-box problem. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 359, 416-423.	2.1	5
27	Action scales for quantum decoherence and their relation to structures in phase space. <i>Physical Review A</i> , 2004, 69, .	2.5	4
28	Superluminal systematic particle velocity in relativistic stochastic Bohmian mechanics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 263, 1-8.	2.1	3
29	First-arrival-time distributions for a Dirac electron in 1+1 dimensions. <i>Physical Review A</i> , 2002, 66, .	2.5	3
30	M-indeterminate distributions in quantum mechanics and the non-overlapping wave function paradox. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 2914-2921.	2.1	3
31	Generating M-Indeterminate Probability Densities by Way of Quantum Mechanics. <i>Journal of Theoretical Probability</i> , 2022, 35, 1537-1555.	0.8	3
32	Quantum Clocks and Stopwatches. , 2008, , 235-278.		3
33	Comment on "Foundations of quantum mechanics: Connection with stochastic processes". <i>Physical Review A</i> , 2001, 64, .	2.5	2