

# Juan Gonzalo Muga

## List of Publications by Year in descending order

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258  
papers

10,381  
citations

47006

47  
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42399

92  
g-index

263  
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263  
docs citations

263  
times ranked

2965  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shortcuts to adiabaticity: Concepts, methods, and applications. <i>Reviews of Modern Physics</i> , 2019, 91, .	45.6	583
2	Shortcuts to Adiabaticity. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2013, 62, 117-169.	2.3	536
3	Fast Optimal Frictionless Atom Cooling in Harmonic Traps: Shortcut to Adiabaticity. <i>Physical Review Letters</i> , 2010, 104, 063002.	7.8	534
4	Shortcut to Adiabatic Passage in Two- and Three-Level Atoms. <i>Physical Review Letters</i> , 2010, 105, 123003.	7.8	485
5	Complex absorbing potentials. <i>Physics Reports</i> , 2004, 395, 357-426.	25.6	418
6	Physical realization of $\gamma$ -symmetric potential scattering in a planar slab waveguide. <i>Journal of Physics A</i> , 2005, 38, L171-L176.	1.6	418
7	Arrival time in quantum mechanics. <i>Physics Reports</i> , 2000, 338, 353-438.	25.6	304
8	Lewis-Riesenfeld invariants and transitionless quantum driving. <i>Physical Review A</i> , 2011, 83, .	2.5	300
9	Optimally robust shortcuts to population inversion in two-level quantum systems. <i>New Journal of Physics</i> , 2012, 14, 093040.	2.9	287
10	Multiple Schrödinger Pictures and Dynamics in Shortcuts to Adiabaticity. <i>Physical Review Letters</i> , 2012, 109, 100403.	7.8	204
11	Engineering of fast population transfer in three-level systems. <i>Physical Review A</i> , 2012, 86, .	2.5	194
12	Fast atomic transport without vibrational heating. <i>Physical Review A</i> , 2011, 83, .	2.5	190
13	Optimal trajectories for efficient atomic transport without final excitation. <i>Physical Review A</i> , 2011, 84, .	2.5	119
14	Frictionless dynamics of Bose-Einstein condensates under fast trap variations. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 241001.	1.5	118
15	Systematic approach to define and classify quantum transmission and reflection times. <i>Physical Review A</i> , 1994, 49, 4312-4325.	2.5	111
16	Transient energy excitation in shortcuts to adiabaticity for the time-dependent harmonic oscillator. <i>Physical Review A</i> , 2010, 82, .	2.5	111
17	Quantum transients. <i>Physics Reports</i> , 2009, 476, 1-50.	25.6	106
18	Arrival time in quantum mechanics. <i>Physical Review A</i> , 1997, 56, 3425-3435.	2.5	99

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19	Shortcuts to adiabaticity for non-Hermitian systems. <i>Physical Review A</i> , 2011, 84, .	2.5	99
20	Shortcuts to adiabaticity: Fast-forward approach. <i>Physical Review A</i> , 2012, 86, .	2.5	98
21	Transitionless quantum drivings for the harmonic oscillator. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 085509.	1.5	95
22	Shortcuts to adiabaticity in three-level systems using Lie transforms. <i>Physical Review A</i> , 2014, 89, .	2.5	95
23	Measurement-based approach to quantum arrival times. <i>Physical Review A</i> , 2002, 66, .	2.5	91
24	Time of Arrival in Quantum Mechanics. <i>Annals of Physics</i> , 1995, 240, 351-366.	2.8	83
25	Hamiltonian engineering via invariants and dynamical algebra. <i>Physical Review A</i> , 2014, 89, .	2.5	83
26	Fast transport of Bose-Einstein condensates. <i>New Journal of Physics</i> , 2012, 14, 013031.	2.9	80
27	Improving shortcuts to adiabaticity by iterative interaction pictures. <i>Physical Review A</i> , 2013, 87, .	2.5	75
28	Transmission and reflection tunneling times. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1992, 167, 24-28.	2.1	74
29	Arrival time distributions and perfect absorption in classical and quantum mechanics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 253, 21-27.	2.1	74
30	Fast and robust population transfer in two-level quantum systems with dephasing noise and/or systematic frequency errors. <i>Physical Review A</i> , 2013, 88, .	2.5	73
31	Atom diode: A laser device for a unidirectional transmission of ground-state atoms. <i>Physical Review A</i> , 2004, 70, .	2.5	69
32	Free-motion time-of-arrival operator and probability distribution. <i>Physical Review A</i> , 1999, 61, .	2.5	66
33	Space-time properties of free-motion time-of-arrival eigenfunctions. <i>Physical Review A</i> , 1998, 58, 4336-4344.	2.5	65
34	Fast and Robust Spin Manipulation in a Quantum Dot by Electric Fields. <i>Physical Review Letters</i> , 2012, 109, 206602.	7.8	65
35	Fast transitionless expansion of cold atoms in optical Gaussian-beam traps. <i>Physical Review A</i> , 2012, 85, .	2.5	64
36	Time-of-arrival distribution for arbitrary potentials and Wigner's time-energy uncertainty relation. <i>Physical Review A</i> , 2000, 61, .	2.5	63

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37	Dynamics of a Tonks-Girardeau gas released from a hard-wall trap. <i>Europhysics Letters</i> , 2006, 74, 965-971.	2.0	63
38	Fast quasiadiabatic dynamics. <i>Physical Review A</i> , 2015, 92, .	2.5	63
39	Adiabaticity condition for non-Hermitian Hamiltonians. <i>Physical Review A</i> , 2014, 89, .	2.5	62
40	One-photon atomic cooling with an optical Maxwell demon valve. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, 3833-3838.	1.5	55
41	Bounds and enhancements for negative scattering time delays. <i>Physical Review A</i> , 2002, 66, .	2.5	54
42	The time of arrival concept in quantum mechanics. <i>Superlattices and Microstructures</i> , 1998, 23, 833-842.	3.1	53
43	Collapse of spin-orbit-coupled Bose-Einstein condensates. <i>Physical Review A</i> , 2015, 91, .	2.5	52
44	Optimization of absorbing potentials. <i>Chemical Physics Letters</i> , 1994, 228, 672-677.	2.6	51
45	Energy consumption for shortcuts to adiabaticity. <i>Physical Review A</i> , 2017, 96, .	2.5	51
46	Transient and asymptotic effects in tunneling. <i>Physical Review A</i> , 1996, 54, 3055-3066.	2.5	50
47	Decay by tunneling of bosonic and fermionic Tonks-Girardeau gases. <i>Physical Review A</i> , 2006, 74, .	2.5	49
48	Transport in a harmonic trap: Shortcuts to adiabaticity and robust protocols. <i>Physical Review A</i> , 2014, 90, .	2.5	47
49	Nonequilibrium Solutions of the Boltzmann Equation under the Action of an External Force. <i>Physical Review Letters</i> , 2014, 112, 180602.	7.8	46
50	Vibrational Mode Multiplexing of Ultracold Atoms. <i>Physical Review Letters</i> , 2013, 111, 213001.	7.8	45
51	Compact and high conversion efficiency mode-sorting asymmetric Y junction using shortcuts to adiabaticity. <i>Optics Letters</i> , 2014, 39, 2306.	3.3	45
52	Fast phase gates with trapped ions. <i>Physical Review A</i> , 2017, 95, .	2.5	45
53	Wigner trajectories and Liouville's theorem. <i>Journal of Chemical Physics</i> , 1993, 99, 2708-2714.	3.0	43
54	Fast generation of spin-squeezed states in bosonic Josephson junctions. <i>Physical Review A</i> , 2012, 86, .	2.5	43

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55	Noise resistant quantum control using dynamical invariants. <i>New Journal of Physics</i> , 2018, 20, 025006.	2.9	43
56	Zeno physics in ultrastrong-coupling circuit QED. <i>Physical Review A</i> , 2010, 81, .	2.5	42
57	Fast transport of two ions in an anharmonic trap. <i>Physical Review A</i> , 2013, 88, .	2.5	41
58	Time-of-arrival distributions for interaction potentials. <i>Physical Review A</i> , 2001, 64, .	2.5	39
59	Shortcuts to adiabaticity in optical waveguides using fast quasiadiabatic dynamics. <i>Optics Express</i> , 2017, 25, 159.	3.4	39
60	Composite Absorbing Potentials. <i>Physical Review Letters</i> , 1998, 80, 5469-5472.	7.8	38
61	Barrier traversal times using a phenomenological track formation model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 233, 227-232.	2.1	37
62	Time dependence of evanescent quantum waves. <i>Physical Review A</i> , 2000, 62, .	2.5	37
63	Exact and approximate complex potentials for modelling time observables. <i>Europhysics Letters</i> , 2004, 67, 1-7.	2.0	37
64	Disclosing hidden information in the quantum Zeno effect: Pulsed measurement of the quantum time of arrival. <i>Physical Review A</i> , 2008, 77, .	2.5	37
65	Fast transport of mixed-species ion chains within a Paul trap. <i>Physical Review A</i> , 2014, 90, .	2.5	36
66	Perfect absorbers for stationary and wavepacket scattering. <i>Journal of Physics A</i> , 1994, 27, L439-L445.	1.6	34
67	Time modulation of atom sources. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 975-987.	1.5	33
68	Fast shuttling of a trapped ion in the presence of noise. <i>Physical Review A</i> , 2014, 89, .	2.5	33
69	Pulse design without the rotating-wave approximation. <i>Physical Review A</i> , 2015, 92, .	2.5	33
70	Operator-normalized quantum arrival times in the presence of interactions. <i>Physical Review A</i> , 2004, 70, .	2.5	31
71	Solvable three-boson model with attractive $\delta$ -function interactions. <i>Physical Review A</i> , 1998, 57, 3317-3329.	2.5	30
72	On atomic time-of-arrival measurements with a laser of finite beam width. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 2657-2669.	1.5	30

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73	Dwell time and asymptotic behavior of the probability density. <i>Physical Review B</i> , 1995, 52, 16381-16384.	3.2	29
74	Hamiltonian design to prepare arbitrary states of four-level systems. <i>Physical Review A</i> , 2018, 97, .	2.5	29
75	Time-of-arrival distributions from position-momentum and energy-time joint measurements. <i>Physical Review A</i> , 2000, 61, .	2.5	28
76	Detecting quantum backflow by the density of a Bose-Einstein condensate. <i>Physical Review A</i> , 2013, 87, .	2.5	28
77	Shortcuts to adiabaticity in optical waveguides. <i>Europhysics Letters</i> , 2019, 127, 34001.	2.0	28
78	Comparison of classical and quantal evolution of phase space distribution functions. <i>Physica Scripta</i> , 1993, 47, 732-739.	2.5	27
79	Short-time behaviour of the quantum survival probability. <i>Europhysics Letters</i> , 1996, 35, 247-252.	2.0	27
80	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
81	Resonance expansions in quantum mechanics. <i>European Physical Journal D</i> , 2005, 55, 1141-1150.	0.4	26
82	Role of initial state reconstruction in short- and long-time deviations from exponential decay. <i>Physical Review A</i> , 2006, 73, .	2.5	26
83	Adiabatic interpretation of a two-level atom diode, a laser device for unidirectional transmission of ground-state atoms. <i>Physical Review A</i> , 2006, 73, .	2.5	26
84	Qubit gates with simultaneous transport in double quantum dots. <i>New Journal of Physics</i> , 2018, 20, 113029.	2.9	26
85	Sources of quantum waves. <i>Journal of Physics A</i> , 2001, 34, 4289-4299.	1.6	24
86	Tunneling dynamics in relativistic and nonrelativistic wave equations. <i>Physical Review A</i> , 2003, 68, .	2.5	24
87	Ultrafast propagation of Schrödinger waves in absorbing media. <i>Physical Review A</i> , 2004, 69, .	2.5	24
88	Preparation of atomic Fock states by trap reduction. <i>Physical Review A</i> , 2009, 79, .	2.5	24
89	Manufacturing time operators: Covariance, selection criteria, and examples. <i>Physical Review A</i> , 2010, 82, .	2.5	24
90	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

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91	Resonant tunneling transients and decay for a one-dimensional double barrier potential. Journal of Applied Physics, 2005, 97, 013705.	2.5	23
92	Fast driving between arbitrary states of a quantum particle by trap deformation. Physical Review A, 2016, 94, .	2.5	23
93	Robust state preparation in quantum simulations of Dirac dynamics. Physical Review A, 2017, 95, .	2.5	23
94	Transmission, Reflection, and Interference Contributions to the Tunnelling Dwell Time. Europhysics Letters, 1993, 22, 159-165.	2.0	22
95	Are Anomalously Short Tunnelling Times Measurable?. Annals of Physics, 1996, 248, 122-133.	2.8	22
96	Survival Probability for the Yamaguchi Potential. Annals of Physics, 1996, 252, 336-356.	2.8	22
97	Quantum kinetic energy densities: An operational approach. Journal of Chemical Physics, 2005, 122, 154106.	3.0	22
98	Improvement by laser quenching of an $\tilde{\text{atom diode}}^{\text{TM}}$ : a one-way barrier for ultra-cold atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, L133-L138.	1.5	22
99	Time scales of tunneling decay of a localized state. Physical Review A, 2010, 82, .	2.5	22
100	Fast and stable manipulation of a charged particle in a Penning trap. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 075503.	1.5	22
101	Invariant-Based Inverse Engineering of Crane Control Parameters. Physical Review Applied, 2017, 8, .	3.8	22
102	Quantum times of arrival for multiparticle states. Physical Review A, 2002, 65, .	2.5	21
103	Enhanced observability of quantum postexponential decay using distant detectors. Physical Review A, 2009, 80, .	2.5	21
104	Shortcut to adiabaticity in internal bosonic Josephson junctions. Physical Review A, 2013, 88, .	2.5	21
105	Time-Dependent Quantum-Mechanical Approaches to the Continuous Spectrum: Scattering Resonances in a Finite Box. Israel Journal of Chemistry, 1989, 29, 461-471.	2.3	20
106	Single-particle matter wave pulses. Journal of Physics A, 2005, 38, 9803-9819.	1.6	20
107	Generalized relation between pulsed and continuous measurements in the quantum Zeno effect. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 175501.	1.5	20
108	Explanation and observability of diffraction in time. Physical Review A, 2011, 83, .	2.5	20

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109	Engineering fast and stable splitting of matter waves. <i>Physical Review A</i> , 2013, 87, .	2.5	20
110	Optimal shortcuts for atomic transport in anharmonic traps. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 125503.	1.5	20
111	Transient Particle Energies in Shortcuts to Adiabatic Expansions of Harmonic Traps. <i>Journal of Physical Chemistry A</i> , 2016, 120, 2962-2969.	2.5	20
112	Classical transmittance and tunnelling. <i>Journal of Physics A</i> , 1991, 24, 2003-2012.	1.6	19
113	Transmittance for wave-packet scattering. <i>Physical Review A</i> , 1992, 46, 6075-6078.	2.5	19
114	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
115	Atom Fock-state preparation by trap reduction. <i>Physical Review A</i> , 2008, 78, .	2.5	19
116	Quantum Decay at Long Times. <i>Advances in Quantum Chemistry</i> , 2010, 60, 485-535.	0.8	19
117	Fast shuttling of a particle under weak spring-constant noise of the moving trap. <i>Physical Review A</i> , 2018, 97, .	2.5	19
118	Matter-wave diffraction in time with a linear potential. <i>Journal of Physics A</i> , 2006, 39, 5897-5906.	1.6	18
119	Three-dimensional effects in atom diodes: Atom-optical devices for one-way motion. <i>Physical Review A</i> , 2007, 76, .	2.5	18
120	Symmetries and time operators. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 505303.	2.1	18
121	Interaction of strongly chirped pulses with two-level atoms. <i>Physical Review A</i> , 2011, 84, .	2.5	18
122	Energy consumption for ion-transport in a segmented Paul trap. <i>New Journal of Physics</i> , 2018, 20, 065002.	2.9	18
123	Does positive flux provide a valid definition of tunnelling times?. <i>Solid State Communications</i> , 1995, 94, 979-982.	1.9	17
124	Quantum time-of-flight measurements: Kicked clock versus continuous clock. <i>Physical Review A</i> , 2003, 67, .	2.5	17
125	Long-time deviations from exponential decay for inverse-square potentials. <i>Physical Review A</i> , 2008, 77, .	2.5	17
126	Fast transitionless expansions of Gaussian anharmonic traps for cold atoms: Bang-singular-bang control. <i>Physical Review A</i> , 2014, 89, .	2.5	17



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127	Fast separation of two trapped ions. <i>New Journal of Physics</i> , 2015, 17, 093031.	2.9	17
128	Shortcuts to adiabaticity for an ion in a rotating radially-tight trap. <i>New Journal of Physics</i> , 2016, 18, 043014.	2.9	17
129	Asymmetric scattering by non-Hermitian potentials. <i>Europhysics Letters</i> , 2017, 120, 20001.	2.0	17
130	Vanishing efficiency of a speeded-up ion-in-Paul-trap Otto engine. <i>Europhysics Letters</i> , 2019, 127, 20005.	2.0	17
131	Noise Sensitivities for an Atom Shuttled by a Moving Optical Lattice via Shortcuts to Adiabaticity. <i>Entropy</i> , 2020, 22, 262.	2.2	17
132	Violation of the Pure-State Condition by the Classically Evolved Wigner Function. <i>Europhysics Letters</i> , 1992, 19, 569-573.	2.0	16
133	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
134	Optimal atomic detection of ultracold atoms by control of detuning and spatial dependence of laser intensity. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 3899-3907.	1.5	16
135	A proposed mechanism for resonances in H+H <sub>2</sub> collisions. <i>Chemical Physics Letters</i> , 1989, 162, 7-13.	2.6	15
136	Quantum optical time-of-arrival model in three dimensions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, 409-420.	1.5	15
137	Fast expansions and compressions of trapped-ion chains. <i>Physical Review A</i> , 2015, 91, .	2.5	15
138	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle S \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -matrix pole symmetries for non-Hermitian scattering Hamiltonians. <i>Physical Review A</i> , 2019, 99, .	2.5	15
139	Scattering by a separable potential in one dimension. <i>Canadian Journal of Physics</i> , 1990, 68, 403-410.	1.1	14
140	Solvable model for quantum wavepacket scattering in one dimension. <i>Journal of Physics A</i> , 1998, 31, 9519-9534.	1.6	14
141	Collisional Transitory Enhancement of the High Momentum Components of a Quantum Wave Packet. <i>Physical Review Letters</i> , 1998, 81, 2621-2625.	7.8	14
142	Evanescent waves in a time-of-arrival measurement model. <i>Physical Review A</i> , 2001, 64, .	2.5	14
143	Transient interference of transmission and incidence. <i>Physical Review A</i> , 2001, 64, .	2.5	14
144	Suppression of Rabi oscillations for moving atoms. <i>Physical Review A</i> , 2003, 67, .	2.5	14

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145	Explicit solution for a Gaussian wave packet impinging on a square barrier. <i>Journal of Physics A</i> , 2003, 36, 2371-2378.	1.6	14
146	Ramsey interferometry with guided ultracold atoms. <i>European Physical Journal D</i> , 2007, 41, 71-75.	1.3	14
147	Quantum matter-wave dynamics with moving mirrors. <i>Physical Review A</i> , 2008, 77, .	2.5	14
148	Dynamical normal modes for time-dependent Hamiltonians in two dimensions. <i>Physical Review A</i> , 2017, 95, .	2.5	14
149	Fast atom transport and launching in a nonrigid trap. <i>Scientific Reports</i> , 2017, 7, 5753.	3.3	14
150	Symmetries and invariants for non-Hermitian Hamiltonians. <i>Mathematics</i> , 2018, 6, 111.	2.2	14
151	Asymptotic behavior in phase-space scattering. <i>Physical Review A</i> , 1992, 45, 2940-2950.	2.5	13
152	A simple construction procedure of absorbing potentials. <i>Chemical Physics Letters</i> , 1998, 292, 1-6.	2.6	13
153	Comparison of Complex Potentials: Absorption Width and Robustness. <i>Journal of Physical Chemistry A</i> , 1998, 102, 9464-9469.	2.5	13
154	Time scale of forerunners in quantum tunneling. <i>Physical Review A</i> , 2002, 66, .	2.5	13
155	Comment on: "On the standard quantum-mechanical approach to times of arrival". <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 313, 498-501.	2.1	13
156	Motional frequency shifts of trapped ions in the Lamb-Dicke regime. <i>Physical Review A</i> , 2007, 76, .	2.5	13
157	Local rectification of heat flux. <i>Europhysics Letters</i> , 2017, 119, 64001.	2.0	13
158	Statistical properties of the delay time matrix. <i>Physical Review E</i> , 1995, 51, 5377-5391.	2.1	12
159	Moderately dense gas quantum kinetic theory: Aspects of pair correlations. <i>Journal of Chemical Physics</i> , 1996, 105, 3057-3065.	3.0	12
160	The transient response of a quantum wave to an instantaneous potential step switching. <i>Journal of Physics A</i> , 2002, 35, 10377-10389.	1.6	12
161	Suppression of Zeno effect for distant detectors. <i>Physical Review A</i> , 2006, 74, .	2.5	12
162	Atom cooling by nonadiabatic expansion. <i>Physical Review A</i> , 2009, 80, .	2.5	12

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163	Interference of spin-orbit-coupled Bose-Einstein condensates. Europhysics Letters, 2014, 106, 60004.	2.0	12
164	Invariant-based inverse engineering of time-dependent, coupled harmonic oscillators. Physical Review A, 2020, 102, .	2.5	12
165	Ramsey interferometry with a two-level generalized Tonks-Girardeau gas. Physical Review A, 2007, 76, .	2.5	11
166	Atomic Fock states by gradual trap reduction: From sudden to adiabatic limits. Physical Review A, 2011, 83, .	2.5	11
167	Quantum state engineering of spin-orbit-coupled ultracold atoms in a Morse potential. Physical Review A, 2015, 91, .	2.5	11
168	Optimal transport of two ions under slow spring-constant drifts. Physica Scripta, 2015, 90, 074038.	2.5	11
169	Interferometer with a driven trapped ion. Physical Review A, 2018, 98, .	2.5	11
170	Stationary scattering theories. Physica Scripta, 1989, 40, 129-140.	2.5	10
171	Quantal methods for classical dynamics in Liouville space. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 192, 180-184.	2.1	10
172	Consistent histories, the quantum Zeno effect, and time of arrival. Physical Review A, 2000, 62, .	2.5	10
173	Asymptotic behavior of the probability density in one dimension. American Journal of Physics, 2002, 70, 738-740.	0.7	10
174	Stability of spinor Fermi gases in tight waveguides. Physical Review A, 2007, 76, .	2.5	10
175	Vibronic Rabi resonances in harmonic and hard-wall ion traps for arbitrary laser intensity and detuning. Physical Review A, 2007, 75, .	2.5	10
176	Stopping particles of arbitrary velocities with an accelerated wall. Physical Review A, 2009, 80, .	2.5	10
177	Relation between quantum dwell times and flux-flux correlations. Physical Review A, 2009, 79, .	2.5	10
178	Reduction of local velocity spreads by linear potentials. Physical Review A, 2014, 89, .	2.5	10
179	Shortcuts to adiabaticity in two-level systems: control and optimization. Journal of Modern Optics, 2014, 61, 828-832.	1.3	10
180	Heat rectification with a minimal model of two harmonic oscillators. Physical Review E, 2021, 103, 012134.	2.1	10

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181	Quantum second virial coefficient paradox. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 118, 375-376.	2.1	9
182	Wigner function for the square barrier. Solid State Communications, 1995, 94, 877-882.	1.9	9
183	Moller operators and Lippmann-Schwinger equations for steplike potentials. Journal of Physics A, 2001, 34, 5341-5353.	1.6	9
184	Local spin-density oscillations in coupled quantum wells. Physical Review B, 2004, 70, .	3.2	9
185	Velocity selection of ultra-cold atoms with Fabry-Perot laser devices: improvements and limits. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 2665-2674.	1.5	9
186	Fast state and trap rotation of a particle in an anisotropic potential. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 465301.	2.1	9
187	Asymmetric heat transport in ion crystals. Physical Review E, 2019, 100, 032109.	2.1	9
188	Interferometer for force measurement via a shortcut to adiabatic arm guiding. Physical Review Research, 2020, 2, .	3.6	9
189	Stationary scattering as an initial value problem. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 157, 325-329.	2.1	8
190	Coherent and escape tunneling processes in asymmetric coupled quantum wells. Journal of Applied Physics, 1992, 72, 5750-5755.	2.5	8
191	Characteristic times for resonant tunneling through double barrier heterostructures. Physica B: Condensed Matter, 1992, 179, 326-334.	2.7	8
192	The influence functional: application to tunnelling. Journal of Physics A, 1995, 28, 6233-6244.	1.6	8
193	Comment on "Quantum and classical probability distributions for position and momentum," by R. W. Robinett [Am. J. Phys. 63 (9), 823-832 (1995)]. American Journal of Physics, 1997, 65, 157-158.	0.7	8
194	Vibrational Bloch-Siegert effect in trapped ions. Physical Review A, 2008, 77, .	2.5	8
195	Cold-atom dynamics in crossed-laser-beam waveguides. Physical Review A, 2010, 82, .	2.5	8
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