

Wenhua Hai

List of Publications by Year in descending order

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108
papers

1,571
citations

331538

21
h-index

395590

33
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108
all docs

108
docs citations

108
times ranked

413
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent control of spin tunneling in a driven spin-orbit coupled bosonic triple well. Communications in Theoretical Physics, 2022, 74, 055104.	1.1	1
2	Physics of manipulation of spin dynamics in a driven double well made transparent. Results in Physics, 2022, 39, 105706.	2.0	3
3	Transparent qubit manipulations with spin-orbit coupled two-electron nanowire quantum dot. Scientific Reports, 2021, 11, 18839.	1.6	2
4	Quantum transport and control of a classically chaotic open system. Results in Physics, 2020, 17, 103157.	2.0	9
5	Alternative Interpretation and Prediction of Quantum Hall Effect via Electron Pairing Picture. Few-Body Systems, 2020, 61, 1.	0.7	1
6	Transparently manipulating spin-orbit qubit via exact degenerate ground states*. Chinese Physics B, 2020, 29, 083203.	0.7	4
7	Phase-controlled and chaos-assisted or -suppressed quantum entanglement for a spin-orbit coupled Bose-Einstein condensate. Chaos, 2019, 29, 103148.	1.0	7
8	Implementing two-qubit phase gates by exchanging non-Abelian quasiparticles. Quantum Information Processing, 2019, 18, 1.	1.0	3
9	Chaos-assisted localization and delocalization of a particle in a driven optical lattice. Chaos, Solitons and Fractals, 2019, 122, 80-88.	2.5	2
10	Controlling chaotic spin-motion entanglement of ultracold atoms via spin-orbit coupling. Chaos, 2018, 28, 023115.	1.0	11
11	Controlled ultrafast transfer and stability degree of generalized coherent states of a kicked two-level ion. Results in Physics, 2018, 9, 424-431.	2.0	1
12	Constructing multiwing attractors from a robust chaotic system with non-hyperbolic equilibrium points. Automatika, 2018, 59, 184-193.	1.2	11
13	Coherent control of quasi-degenerate stationary-like states via multiple resonances. Scientific Reports, 2017, 7, 21.	1.6	6
14	Analytical evidence of ultrafast generation of spin-motion entanglement. Quantum Information and Computation, 2017, 17, 456-468.	0.1	9
15	Controlling chaos-assisted directed transport via quantum resonance. Chaos, 2016, 26, 063106.	1.0	6
16	Controlling spin-dependent localization and directed transport in a bipartite lattice. Physical Review A, 2016, 93, .	1.0	11
17	A novel exact solution to transmission problem of electron wave in a nonlinear Kronig-Penney superlattice. Superlattices and Microstructures, 2016, 91, 129-137.	1.4	1
18	Controlling instability and phase hops of a kicked two-level ion in Lamb-Dicke regime. European Physical Journal D, 2015, 69, 1.	0.6	4

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19	Transparent control of three-body selective destruction of tunneling via unusual states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 015002.	0.6	6
20	Interplay between interaction and nonidentical coupling for a Bose-Einstein Condensate in a triple-well potential. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 1881-1886.	0.9	2
21	Directed selective-tunneling of bosons with periodically modulated interaction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 947-951.	0.9	4
22	Phase-controlled localization and directed transport in an optical bipartite lattice. <i>Optics Express</i> , 2014, 22, 4277.	1.7	9
23	Directed selective tunneling of dipolar bosons in a driven triple well. <i>Physical Review A</i> , 2014, 89, .	1.0	11
24	Does chaos assist localization or delocalization?. <i>Chaos</i> , 2014, 24, 043114.	1.0	11
25	Exact matter-wave vortices in a driven optical lattice. <i>European Physical Journal D</i> , 2013, 67, 1.	0.6	2
26	Coherent control via interplay between driving field and two-body interaction in a double well. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 3078-3083.	0.9	6
27	Transparent control of an exactly solvable two-level system via combined modulations. <i>Physical Review A</i> , 2013, 87, .	1.0	20
28	Quantum manipulation of tunnelling for two bosons held in a driven triple-well. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 045004.	0.6	9
29	Second-order tunneling of two interacting bosons in a driven triple well. <i>New Journal of Physics</i> , 2013, 15, 123020.	1.2	13
30	Algebraic bright and vortex solitons in self-defocusing media with spatially inhomogeneous nonlinearity. <i>Physical Review A</i> , 2013, 87, .	1.0	33
31	A biperiodically driven matter-wave nonautonomous deformed soliton. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 435003.	0.7	1
32	Non-Floquet states and a two-pathway switch in a driven planar four-well. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 185504.	0.6	1
33	Phase effects of a two-dimensional Bose-Einstein condensate. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 135301.	0.6	3
34	Chaotic transport of a matter-wave soliton in a biperiodically driven optical superlattice. <i>Chaos, Solitons and Fractals</i> , 2012, 45, 1423-1429.	2.5	12
35	Different routes from a matter wavepacket to spatiotemporal chaos. <i>Chaos</i> , 2012, 22, 033109.	1.0	0
36	Coherent control of quantum tunneling in an open double-well system. <i>Physical Review A</i> , 2012, 85, .	1.0	17

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37	Coherent control of atomic tunneling in a driven triple well. <i>Physical Review A</i> , 2011, 83, .	1.0	35
38	Quantum tunneling switch in a planar four-well system. <i>Physical Review A</i> , 2011, 83, .	1.0	19
39	A direct connection between quantum Hall plateaus and exact pair states in a 2D electron gas. <i>Open Physics</i> , 2011, 9, .	0.8	0
40	Instability inducing directed tunnelling of a single particle in a bipartite lattice. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011, 44, 035507.	0.6	3
41	Incoherent control in a non-Hermitian Bose-Hubbard dimer. <i>Physical Review A</i> , 2011, 84, .	1.0	29
42	Coherent control of quantum tunneling in different driving-frequency regions. <i>Physical Review A</i> , 2010, 81, .	1.0	12
43	Analytical results for a monochromatically driven two-level system. <i>Physical Review A</i> , 2010, 82, .	1.0	40
44	Photon-assisted tunneling of a driven two-mode Bose-Einstein condensate. <i>Physical Review A</i> , 2010, 82, .	1.0	17
45	Controlling transport and entanglement of two particles in a bipartite lattice. <i>Physical Review A</i> , 2010, 82, .	1.0	21
46	Quantum control of a Paul-trapped ion via double radio-frequency driving. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 455302.	0.7	4
47	Chaos enhancing tunneling in a coupled Bose-Einstein condensate with a double driving. <i>Chaos</i> , 2009, 19, 033129.	1.0	13
48	Quantum control in a double well with symmetric or asymmetric driving. <i>Physical Review A</i> , 2009, 80, .	1.0	25
49	Transition probability from matter-wave soliton to chaos. <i>Physical Review E</i> , 2009, 80, 016203.	0.8	19
50	Chaotic shock waves of a Bose-Einstein condensate. <i>Physical Review A</i> , 2009, 79, .	1.0	21
51	Nonlinear Floquet states and quasienergies of a Bose-Einstein condensate in a driven double-well potential. <i>Physical Review A</i> , 2009, 80, .	1.0	11
52	Exact transmission state of a Bose-Einstein condensate in a near-harmonic trap. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 1560-1564.	0.9	7
53	Relation between chaos probability and zero-point number of the Melnikov function for a Bose-Einstein condensate. <i>Open Physics</i> , 2009, 7, .	0.8	1
54	Regular and chaotic Bose-Einstein condensate in an accelerated Wannier-Stark lattice. <i>Physical Review A</i> , 2009, 79, .	1.0	7

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55	Stabilities of one-dimensional stationary states of Bose-Einstein condensates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2558-2562.	0.9	5
56	Discrete chaotic states of a Bose-Einstein condensate. Physical Review E, 2008, 78, 066214.	0.8	17
57	MAGNETO-CONTROLLING QUANTUM STATES OF A SINGLE PARTICLE INTERACTING WITH A SQUARE BARRIER. Modern Physics Letters B, 2008, 22, 1231-1241.	1.0	1
58	Exact Floquet states of a driven condensate and their stabilities. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 095301.	0.6	14
59	Exact coherent control to two weakly coupled Bose-Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 175301.	0.6	4
60	Phase locking of two weakly coupled Bose-Einstein condensates under a high-frequency driving field. Physical Review A, 2008, 78, .	1.0	3
61	Dynamical evolutions of matter-wave bright solitons in an inverted parabolic potential. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 211-220.	0.6	14
62	Coherent control of self-trapping of two weakly coupled Bose-Einstein condensates. Physical Review A, 2007, 75, .	1.0	21
63	Exact manipulations to Bloch states of a particle in a double cosine potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 367, 445-449.	0.9	5
64	Controlling quantum motions of a trapped and driven electron: an exact analytic treatment. Journal of Physics A, 2006, 39, 401-415.	1.6	11
65	Stability and chaotic behavior of a two-component Bose-Einstein condensate. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 351, 136-142.	0.9	12
66	Chaotic phase oscillation of a proton beam in a synchrotron. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 355, 104-109.	0.9	5
67	Near coherent states of an electron in a time-dependent linear potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 357, 181-187.	0.9	13
68	Exact Floquet states of a two-component Bose-Einstein condensate induced by a laser standing wave. Journal of Physics A, 2006, 39, 15061-15071.	1.6	10
69	Chaotic Josephson effects in two-coupled Bose-Einstein condensates. Physica A: Statistical Mechanics and Its Applications, 2005, 349, 133-142.	1.2	15
70	Wannier-Stark chaos of a Bose-Einstein condensate in 1D optical lattices. Physica B: Condensed Matter, 2005, 370, 61-72.	1.3	13
71	Three-body recombination in two coupled Bose-Einstein condensates. Journal of Physics A, 2005, 38, 4105-4114.	1.6	18
72	Dynamic chaos and stability of a weakly open Bose-Einstein condensate in a double-well trap. Chaos, 2005, 15, 033702.	1.0	20

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73	Controlling chaos in a weakly coupled array of Bose-Einstein condensates. <i>Physical Review E</i> , 2005, 71, 016202.	0.8	45
74	Quantum chaos and order based on classically moving reference frames. <i>Physical Review A</i> , 2005, 72, .	1.0	20
75	Propagation and breathing of matter-wave-packet trains. <i>Physical Review A</i> , 2004, 70, .	1.0	35
76	Transient and stationary chaos of a Bose-Einstein condensate loaded into a moving optical lattice potential. <i>Physical Review E</i> , 2004, 70, 036213.	0.8	54
77	Phase-dependent spontaneous spin polarization and bifurcation delay in coupled two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2004, 69, .	1.0	44
78	Optical operation of ultracold atomic quasi-clusters. <i>European Physical Journal D</i> , 2004, 28, 267-272.	0.6	18
79	Exactly formulated Bose-Einstein condensates in optical lattices. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 335, 445-454.	1.2	20
80	Spatial chaos of trapped Bose-Einstein condensate in one-dimensional weak optical lattice potential. <i>Chaos</i> , 2004, 14, 217-223.	1.0	62
81	Wavepacket trains of a Paul trapped ion. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 3055-3061.	0.6	23
82	Quasispin model for macroscopic quantum tunneling between two coupled Bose-Einstein condensates. <i>Physical Review A</i> , 2003, 68, .	1.0	28
83	Chaotic atomic tunneling between two periodically driven Bose-Einstein condensates. <i>Chaos</i> , 2003, 13, 801-805.	1.0	43
84	Exact Solutions for Hydrogenic Impurity States in Quantum Dots. <i>Modern Physics Letters B</i> , 2003, 17, 1111-1117.	1.0	4
85	CONTROLLING HYPERRADIANCE FROM CHAOTIC SOLITON OSCILLATOR IN JOSEPHSON JUNCTIONS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2003, 13, 3287-3293.	0.7	1
86	Chaotic probability density in two periodically driven and weakly coupled Bose-Einstein condensates. <i>Physical Review E</i> , 2002, 66, 026202.	0.8	88
87	Transitions between chaos and order in rf-driven Josephson junction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 295, 220-225.	0.9	10
88	Chaotic solitons in Sine-Gordon system. <i>European Physical Journal B</i> , 2001, 21, 103-107.	0.6	4
89	CHAOTIC SOLUTION OF THE rf-DRIVEN JOSEPHSON SYSTEM WITH QUADRATIC DAMPING. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2001, 11, 2263-2269.	0.7	11
90	Numerical instability in Rayleigh-Schrödinger quantum mechanics. <i>Journal of Physics A</i> , 2001, 34, L79-L87.	1.6	20

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91	Chaotic and frequency-locked atomic population oscillations between two coupled Bose-Einstein condensates. <i>Physical Review A</i> , 2001, 64, .	1.0	95
92	Analytically bounded and numerically unbounded compound pendulum chaos. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 275, 54-59.	0.9	19
93	Current-voltage characteristic of the Josephson chaos. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2000, 265, 128-132.	0.9	23
94	Energy Eigenstates of a Quantum Gate System. <i>International Journal of Theoretical Physics</i> , 2000, 39, 1405-1411.	0.5	6
95	Alternative quantum perturbation theory without divergences. <i>Physical Review A</i> , 2000, 61, .	1.0	39
96	Energy gaps of a trapped ion interacting with a laser field. <i>Journal of Physics A</i> , 1999, 32, 8265-8273.	1.6	20
97	Series solution of two trapped ions experiencing the standing wave of a resonant laser. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1999, 263, 209-217.	0.9	2
98	Stable orbits embedded in a chaotic attractor for a trapped ion interacting with a laser field. <i>Journal of Physics A</i> , 1998, 31, 2991-2996.	1.6	21
99	An analytical study for controlling unstable periodic motion in magneto-elastic chaos. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1997, 234, 198-204.	0.9	29
100	Soliton solution of a singularly perturbed KdV equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995, 208, 79-83.	0.9	21
101	Stability of Soliton Solutions of Multidimensional Sine-Gordon Equation. <i>Europhysics Letters</i> , 1994, 28, 305-310.	0.7	2
102	Kink couples in deoxyribonucleic acid (DNA) double helices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 186, 309-316.	0.9	8
103	A Bäcklund Transformation of a Kind of Nonlinear Wave Equation. <i>Chinese Physics Letters</i> , 1993, 10, 389-392.	1.3	0
104	Canonical transformations and general soliton solutions of some multidimensional field equations. <i>Journal of Physics A</i> , 1993, 26, 969-980.	1.6	4
105	General soliton solutions of an n-dimensional nonlinear Schrodinger equation. <i>Journal of Physics A</i> , 1992, 25, L515-L519.	1.6	6
106	Quadric solitons and breathers of n-dimensional nonlinear wave equations. <i>Physical Review A</i> , 1992, 46, 6757-6760.	1.0	6
107	Canonical Backlund transformations and new solutions of some field equations. <i>Journal of Physics A</i> , 1990, 23, L877-L880.	1.6	0
108	On the canonical variational 2-form and the canonical transformation of fields. <i>Journal of Physics A</i> , 1989, 22, 5033-5041.	1.6	3