

Christian Miniatura

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

2,692
citations

159358

30
h-index

197535

49
g-index

102
all docs

102
docs citations

102
times ranked

1624
citing authors

#	ARTICLE	IF	CITATIONS
1	Momentum signatures of site percolation in disordered two-dimensional ferromagnets. <i>Physical Review B</i> , 2022, 106, .	1.1	0
2	Machine-learning engineering of quantum currents. <i>Physical Review Research</i> , 2021, 3, .	1.3	14
3	Wave-packet dynamic in a SU(2) non-Abelian Gauge field. , 2021, , .		0
4	Coherent forward scattering peak and multifractality. <i>Physical Review Research</i> , 2021, 3, .	1.3	4
5	Roadmap on Atomtronics: State of the art and perspective. <i>AVS Quantum Science</i> , 2021, 3, .	1.8	87
6	Transfer learning for scalability of neural-network quantum states. <i>Physical Review E</i> , 2020, 101, 053301.	0.8	26
7	Graph-theory treatment of one-dimensional strongly repulsive fermions. <i>Physical Review Research</i> , 2020, 2, .	1.3	4
8	Universal graph description for one-dimensional exchange models. <i>Physical Review Research</i> , 2020, 2, .	1.3	2
9	Two-dimensional network of atomtronic qubits. <i>Physical Review A</i> , 2018, 97, .	1.0	5
10	SU(3) topological insulators in the honeycomb lattice. <i>Physical Review A</i> , 2018, 98, .	1.0	5
11	Scaling behavior of Tan's contact for trapped Lieb-Liniger bosons: From two to many. <i>Physical Review A</i> , 2018, 98, .	1.0	8
12	Non-Abelian adiabatic geometric transformations in a cold strontium gas. <i>Nature Communications</i> , 2018, 9, 3580.	5.8	34
13	Coherent forward scattering as a signature of Anderson metal-insulator transitions. <i>Physical Review A</i> , 2017, 95, .	1.0	14
14	Coherent backscattering and forward-scattering peaks in the quantum kicked rotor. <i>Physical Review A</i> , 2017, 95, .	1.0	9
15	Half-skyrmion and vortex-antivortex pairs in spinor condensates. <i>Physical Review A</i> , 2015, 92, .	1.0	25
16	Berry curvature of interacting bosons in a honeycomb lattice. <i>Physical Review A</i> , 2015, 92, .	1.0	11
17	Triangular and honeycomb lattices of cold atoms in optical cavities. <i>Physical Review A</i> , 2015, 92, .	1.0	13
18	Thermalization of matter waves in speckle potentials. <i>Physical Review A</i> , 2015, 92, .	1.0	20

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19	Coherent Backscattering Reveals the Anderson Transition. <i>Physical Review Letters</i> , 2015, 115, 200602.	2.9	15
20	Speckle-intensity correlations of photons scattered by cold atoms. <i>Physical Review A</i> , 2015, 92, .	1.0	4
21	Coherent forward scattering in two-dimensional disordered systems. <i>Physical Review A</i> , 2014, 90, .	1.0	20
22	Momentum-space dynamics of Dirac quasiparticles in correlated random potentials: Interplay between dynamical and Berry phases. <i>Physical Review A</i> , 2014, 89, .	1.0	2
23	U(3) artificial gauge fields for cold atoms. <i>Physical Review A</i> , 2014, 90, .	1.0	11
24	Dynamics of localized waves in one-dimensional random potentials: Statistical theory of the coherent forward scattering peak. <i>Physical Review A</i> , 2014, 90, .	1.0	21
25	Half-integer Mott-insulator phases in the imbalanced honeycomb lattice. <i>Physical Review A</i> , 2014, 89, .	1.0	1
26	Analytical and numerical study of uncorrelated disorder on a honeycomb lattice. <i>Physical Review B</i> , 2013, 87, .	1.1	11
27	Multiple scattering of light in cold atomic clouds in a magnetic field. <i>Physical Review A</i> , 2013, 88, .	1.0	9
28	Enhanced backscattering of a dilute Bose-Einstein condensate. <i>Europhysics Letters</i> , 2012, 100, 66001.	0.7	19
29	Coherent backscattering of ultracold matter waves: Momentum space signatures. <i>Physical Review A</i> , 2012, 85, .	1.0	35
30	Coherent Forward Scattering Peak Induced by Anderson Localization. <i>Physical Review Letters</i> , 2012, 109, 190601.	2.9	41
31	Superfluid fountain effect in a Bose-Einstein condensate. <i>Physical Review A</i> , 2012, 86, .	1.0	16
32	Editorial Note: One-dimensional Anderson localization in certain correlated random potentials [<i>Phys. Rev. A</i> 80, 023605 (2009)]. <i>Physical Review A</i> , 2011, 84, .	1.0	1
33	Emergent spin liquids in the hubbard model on the anisotropic honeycomb lattice. <i>Europhysics Letters</i> , 2011, 95, 47013.	0.7	12
34	Topological quantum phase transitions of attractive spinless fermions in a honeycomb lattice. <i>Europhysics Letters</i> , 2011, 93, 37008.	0.7	16
35	Synthetic magnetic fluxes on the honeycomb lattice. <i>Physical Review A</i> , 2011, 84, .	1.0	9
36	Exact solution for the degenerate ground-state manifold of a strongly interacting one-dimensional Bose-Fermi mixture. <i>Physical Review A</i> , 2011, 84, .	1.0	52

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37	Entanglement detection from interference fringes in atom-photon systems. Physical Review A, 2010, 81, .	1.0	4
38	Finite-temperature quantum Monte Carlo study of the one-dimensional polarized Fermi gas. Physical Review A, 2010, 82, .	1.0	28
39	Average transmission probability of a random stack. European Journal of Physics, 2010, 31, 47-55.	0.3	5
40	Properties of the Photonic Hall Effect in Cold Atomic Clouds. Physical Review Letters, 2009, 102, 217401.	2.9	4
41	Fermionization of a strongly interacting Bose-Fermi mixture in a one-dimensional harmonic trap. Physical Review A, 2009, 79, .	1.0	19
42	Ultracold fermions in a graphene-type optical lattice. Physical Review A, 2009, 80, .	1.0	118
43	Attractive Hubbard model on a honeycomb lattice: Quantum Monte Carlo study. Physical Review B, 2009, 80, .	1.1	16
44	Quantum diffusion of matter waves in 2D speckle potentials. European Physical Journal B, 2009, 68, 353-364.	0.6	15
45	One-dimensional Anderson localization in certain correlated random potentials. Physical Review A, 2009, 80, .	1.0	97
46	Comment on "Intensity Correlations and Mesoscopic Fluctuations of Diffusing Photons in Cold Atoms". Physical Review Letters, 2008, 100, 199301; discussion 199302.	2.9	3
47	Spin Orbit Interaction Induced Spin-Separation In Platinum Nanostructure. NATO Science for Peace and Security Series B: Physics and Biophysics, 2008, , 49-58.	0.2	0
48	Path distinguishability in double scattering of light by atoms. Physical Review A, 2007, 76, .	1.0	8
49	Coherent matter wave transport in speckle potentials. New Journal of Physics, 2007, 9, 161-161.	1.2	112
50	Towards the observation of the photonic Hall effect in cold atomic clouds. , 2007, , .		0
51	Light Transport in Cold Atoms and Thermal Decoherence. Physical Review Letters, 2006, 97, 013004.	2.9	27
52	Coherent backscattering in nonlinear atomic media: Quantum Langevin approach. Physical Review A, 2006, 74, .	1.0	23
53	Coherent backscattering of light with nonlinear atomic scatterers. Physical Review A, 2006, 73, .	1.0	21
54	Phase coherence in multiple scattering: weak and intense monochromatic light wave propagating in a cold strontium cloud. , 2005, , .		2

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55	Mesoscopic scattering of spinsparticles. Journal of Physics A, 2005, 38, 7807-7830.	1.6	6
56	Multiple scattering of photons by atomic hyperfine multiplets. Physical Review A, 2005, 72, .	1.0	12
57	Localization of Matter Waves in Two-Dimensional Disordered Optical Potentials. Physical Review Letters, 2005, 95, 250403.	2.9	78
58	Coherent backscattering of light by nonlinear scatterers. Physical Review E, 2005, 71, 055603.	0.8	14
59	Coherent light scattering by cold atoms. , 2005, , .		0
60	Extra-heating mechanism in Doppler cooling experiments. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1819.	0.9	25
61	Quantum mesoscopic physics: Coherent backscattering of light by cold atoms. European Physical Journal Special Topics, 2004, 119, 19-26.	0.2	0
62	Magnetic Field Enhanced Coherence Length in Cold Atomic Gases. Physical Review Letters, 2004, 93, 143906.	2.9	33
63	Saturation-induced coherence loss in coherent backscattering of light. Physical Review E, 2004, 70, 036602.	0.8	48
64	Coherent backscattering of light by two atoms in the saturated regime. Physical Review A, 2004, 70, .	1.0	32
65	Multiple scattering of light in a resonant medium. Optics Communications, 2004, 243, 157-164.	1.0	26
66	Coherent backscattering of light by resonant atomic dipole transitions. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 183.	0.9	12
67	Light transport in cold atoms: the fate of coherent backscattering in the weak localization regime. Physica B: Condensed Matter, 2003, 328, 157-162.	1.3	8
68	Weak Localisation of Light by Atoms with Quantum Internal Structure. , 2003, , 45-58.		0
69	Slow Diffusion of Light in a Cold Atomic Cloud. Physical Review Letters, 2003, 91, 223904.	2.9	114
70	Coherent backscattering of light by an inhomogeneous cloud of cold atoms. Physical Review A, 2003, 67, .	1.0	42
71	Coherent backscattering of light by cold atoms: Theory meets experiment. Europhysics Letters, 2003, 61, 327-333.	0.7	40
72	Coherent Light Transport in a Cold Strontium Cloud. Physical Review Letters, 2002, 88, 203902.	2.9	87

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73	Hanle Effect in Coherent Backscattering. Physical Review Letters, 2002, 89, 163901.	2.9	30
74	Multiple scattering of light by atoms with internal degeneracy. Journal of Physics A, 2002, 35, 10163-10188.	1.6	45
75	Speckle statistics in a chaotic multimode fiber. Physical Review E, 2002, 65, 056223.	0.8	52
76	Large Faraday rotation of resonant light in a cold atomic cloud. Physical Review A, 2001, 64, .	1.0	76
77	Light Scarring in an Optical Fiber. Physical Review Letters, 2001, 88, 014102.	2.9	55
78	Weak localization of light by cold atoms: The impact of quantum internal structure. Physical Review A, 2001, 64, .	1.0	48
79	Chaos-assisted tunneling with cold atoms. Physical Review E, 2001, 64, 016221.	0.8	59
80	Observation of coherent backscattering of light by cold atoms. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 672-685.	1.4	52
81	Multiple Scattering of Light by Atoms in the Weak Localization Regime. Physical Review Letters, 2000, 85, 4269-4272.	2.9	74
82	Coherent backscattering of light from a cold atomic cloud. European Physical Journal Special Topics, 2000, 10, Pr8-63.	0.2	0
83	Coherent Backscattering of Light by Cold Atoms. Physical Review Letters, 1999, 83, 5266-5269.	2.9	212
84	Backscattering in fractal aggregates: theoretical and numerical studies. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 4467-4476.	0.6	4
85	Atomic interferences in a comoving magnetic field. Physical Review A, 1997, 56, 2954-2958.	1.0	11
86	Delayed choices in atom Stern-Gerlach interferometry. Physical Review A, 1996, 54, 5042-5047.	1.0	44
87	Time selection in atomic Stern-Gerlach interferometry. Physical Review A, 1995, 52, 2457-2459.	1.0	3
88	Stern-Gerlach Atomic Interferometry with Space- and Time-dependent Magnetic Fieldsa. Annals of the New York Academy of Sciences, 1995, 755, 173-181.	1.8	2
89	Interf�rom�trie atomique : un bref survol. Annales De Physique, 1995, 20, 487-492.	0.2	0
90	Doppler-tuned multiphoton resonances in an atom reflection by a standing evanescent wave. Physical Review A, 1994, 49, 4733-4741.	1.0	13

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91	Dispersive and nondispersive phase shifts in atomic Stern-Gerlach interferometry. <i>Physical Review A</i> , 1994, 50, 5007-5013.	1.0	2
92	Least-bias description of atomic beams. <i>Journal De Physique II</i> , 1994, 4, 2043-2059.	0.9	7
93	Reflection of metastable neon atoms by a surface plasmon wave. <i>Optics Communications</i> , 1993, 102, 83-88.	1.0	43
94	Longitudinal Stern-Gerlach atomic interferometry using velocity selected atomic beams. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 1271-1279.	0.6	12
95	Atomic interferences and the topological phase. <i>Physical Review Letters</i> , 1992, 69, 261-264.	2.9	46
96	A longitudinal stern-gerlach atomic interferometer. <i>Applied Physics B: Lasers and Optics</i> , 1992, 54, 347-350.	1.1	22
97	Optical potentials for $\text{Ne}^*(3P2,0) \leftrightarrow \text{Ar}, \text{N}_2$ interactions. <i>Journal of Chemical Physics</i> , 1991, 95, 1801-1807.	1.2	32
98	Geometrical Phase Factor for a Non-Hermitian Hamiltonian. <i>Europhysics Letters</i> , 1991, 14, 91-91.	0.7	0
99	Atomic Interferometry with Metastable Hydrogen Atoms. <i>Europhysics Letters</i> , 1991, 16, 29-34.	0.7	46
100	Polarization effects in metastable neon atom ($\text{Ne}^*(3P2)$) on ground state neon atom collision at thermal energy. <i>Chemical Physics</i> , 1990, 145, 153-161.	0.9	12
101	Geometrical Phase Factor for a Non-Hermitian Hamiltonian. <i>Europhysics Letters</i> , 1990, 13, 199-203.	0.7	28
102	Survival of Metastable Hydrogen Atoms Passing Through Crossed Electric and Magnetic Fields. <i>Europhysics Letters</i> , 1989, 9, 651-656.	0.7	7