

# Cord Mueller

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,682  
citations

279798  
23  
h-index

289244  
40  
g-index

61  
all docs

61  
docs citations

61  
times ranked

908  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent Backscattering of Light by Cold Atoms. Physical Review Letters, 1999, 83, 5266-5269.	7.8	212
2	Slow Diffusion of Light in a Cold Atomic Cloud. Physical Review Letters, 2003, 91, 223904.	7.8	114
3	Coherent matter wave transport in speckle potentials. New Journal of Physics, 2007, 9, 161-161.	2.9	112
4	One-dimensional Anderson localization in certain correlated random potentials. Physical Review A, 2009, 80, .	2.5	97
5	Localization of Matter Waves in Two-Dimensional Disordered Optical Potentials. Physical Review Letters, 2005, 95, 250403.	7.8	78
6	Multiple Scattering of Light by Atoms in the Weak Localization Regime. Physical Review Letters, 2000, 85, 4269-4272.	7.8	74
7	Bogoliubov excitations of disordered Bose-Einstein condensates. Physical Review A, 2011, 83, .	2.5	56
8	Observation of coherent backscattering of light by cold atoms. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 672-685.	1.4	52
9	Weak localization of light by cold atoms: The impact of quantum internal structure. Physical Review A, 2001, 64, .	2.5	48
10	Anderson Localization of Solitons. Physical Review Letters, 2009, 103, 210402.	7.8	45
11	Coherent Backscattering of Bose-Einstein Condensates in Two-Dimensional Disorder Potentials. Physical Review Letters, 2008, 101, 020603.	7.8	44
12	Coherent backscattering of light by an inhomogeneous cloud of cold atoms. Physical Review A, 2003, 67, .	2.5	42
13	Coherent Inelastic Backscattering of Intense Laser Light by Cold Atoms. Physical Review Letters, 2005, 94, 043603.	7.8	42
14	Coherent Forward Scattering Peak Induced by Anderson Localization. Physical Review Letters, 2012, 109, 190601.	7.8	41
15	Coherent backscattering of light by cold atoms: Theory meets experiment. Europhysics Letters, 2003, 61, 327-333.	2.0	40
16	Stable Bloch Oscillations of Cold Atoms with Time-Dependent Interaction. Physical Review Letters, 2009, 102, 255303.	7.8	39
17	Coherent backscattering of ultracold matter waves: Momentum space signatures. Physical Review A, 2012, 85, .	2.5	35
18	Electronic Raman scattering in $\text{HgBa}_2\text{Ca}_2\text{Cu}_3\text{O}_8$ single crystals: Analysis of the superconducting state. Physical Review B, 1998, 58, 11721-11733.	3.2	34

#	ARTICLE	IF	CITATIONS
19	Hanle Effect in Coherent Backscattering. Physical Review Letters, 2002, 89, 163901.	7.8	30
20	Condensate deformation and quantum depletion of Bose-Einstein condensates in external potentials. New Journal of Physics, 2012, 14, 075025.	2.9	27
21	Multiple scattering of light in a resonant medium. Optics Communications, 2004, 243, 157-164.	2.1	26
22	Strong spin-dependent negative differential resistance in composite graphene superlattices. Physical Review B, 2013, 88, .	3.2	25
23	Localization behavior of Dirac particles in disordered graphene superlattices. Physical Review B, 2012, 85, .	3.2	24
24	Strong Anderson Localization in Cold Atom Quantum Quenches. Physical Review Letters, 2014, 112, 110602.	7.8	19
25	Semiclassical spectral function for matter waves in random potentials. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 245102.	2.1	18
26	Stability and decay of Bloch oscillations in the presence of time-dependent nonlinearity. Physical Review A, 2011, 84, .	2.5	17
27	Elastic versus inelastic coherent backscattering of laser light by cold atoms: A master-equation treatment. Physical Review A, 2006, 73, .	2.5	16
28	Speed of sound in disordered Bose-Einstein condensates. Physical Review A, 2009, 80, .	2.5	15
29	Quantum diffusion of matter waves in 2D speckle potentials. European Physical Journal B, 2009, 68, 353-364.	1.5	15
30	Spin-wave localization in disordered magnets. Physical Review B, 2015, 92, .	3.2	15
31	Finite-temperature fidelity-metric approach to the Lipkin-Meshkov-Glick model. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 465304.	2.1	13
32	Optimal Control of Effective Hamiltonians. Physical Review Letters, 2014, 113, 010501.	7.8	13
33	Josephson relation for disordered superfluids. Physical Review A, 2015, 91, .	2.5	13
34	Critical dynamics at the Anderson localization mobility edge. Physical Review A, 2016, 94, .	2.5	13
35	Multiple scattering of photons by atomic hyperfine multiplets. Physical Review A, 2005, 72, .	2.5	12
36	Thermal breakdown of coherent backscattering: A case study of quantum duality. Europhysics Letters, 2006, 74, 240-246.	2.0	12

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37	Bogoliubov theory on the disordered lattice. European Physical Journal: Special Topics, 2013, 217, 69-78.	2.6	12
38	Momentum isotropisation in random potentials. European Physical Journal: Special Topics, 2013, 217, 79-84.	2.6	12
39	Comment on "Three-Dimensional Anderson Localization in Variable Scale Disorder". Physical Review Letters, 2014, 113, 099601.	7.8	12
40	Quantum and classical superballistic transport in a relativistic kicked-rotor system. Physical Review E, 2014, 90, 022921.	2.1	12
41	Echo spectroscopy of Anderson localization. Physical Review B, 2015, 91, .	3.2	12
42	Anisotropic scattering of Bogoliubov excitations. Europhysics Letters, 2008, 83, 10006.	2.0	10
43	Dynamics and stability of Bose-Einstein solitons in tilted optical lattices. Physical Review A, 2010, 81, .	2.5	10
44	Localization of solitons: linear response of the mean-field ground state to weak external potentials. Applied Physics B: Lasers and Optics, 2011, 102, 459-467.	2.2	9
45	Coherent backscattering and forward-scattering peaks in the quantum kicked rotor. Physical Review A, 2017, 95, .	2.5	9
46	Light transport in cold atoms: the fate of coherent backscattering in the weak localization regime. Physica B: Condensed Matter, 2003, 328, 157-162.	2.7	8
47	Path distinguishability in double scattering of light by atoms. Physical Review A, 2007, 76, .	2.5	8
48	Mesoscopic scattering of spinparticles. Journal of Physics A, 2005, 38, 7807-7830.	1.6	6
49	Backscattering in fractal aggregates: theoretical and numerical studies. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 4467-4476.	1.5	4
50	Diffusive Spin Transport. Lecture Notes in Physics, 2009, , 277-314.	0.7	4
51	Speckle-intensity correlations of photons scattered by cold atoms. Physical Review A, 2015, 92, .	2.5	4
52	Weak localization of magnons in chiral magnets. Physical Review B, 2018, 97, .	3.2	4
53	Entanglement witnesses from single-particle interference. Europhysics Letters, 2008, 83, 60006.	2.0	3
54	Comment on "Intensity Correlations and Mesoscopic Fluctuations of Diffusing Photons in Cold Atoms". Physical Review Letters, 2008, 100, 199301; discussion 199302.	7.8	3

#	ARTICLE	IF	CITATIONS
55	Anderson localization of Bogoliubov excitations on quasi-1D strips. Annalen Der Physik, 2015, 527, 531-535.	2.4	3
56	Coherent backscattering of light from saturated atoms. European Physical Journal: Special Topics, 2007, 151, 51-57.	2.6	2
57	A grand-canonical approach to the disordered Bose gas. Applied Physics B: Lasers and Optics, 2014, 117, 775-784.	2.2	2
58	Full distribution of the superfluid fraction and extreme value statistics in a one-dimensional disordered Bose gas. Physical Review A, 2020, 101, .	2.5	2
59	Hypothesis-based Acceptance Sampling for Modules F and F1 of the European Measuring Instruments Directive. Statistics and Public Policy (Philadelphia, Pa ), 0, , 1-9.	1.6	2
60	Optimal acceptance sampling for modules F and F1 of the European Measuring Instruments Directive. Journal of Applied Statistics, 2019, 46, 2338-2356.	1.3	1
61	Weak Localisation of Light by Atoms with Quantum Internal Structure. , 2003, , 45-58.		0