

Stephan Drr

List of Publications by Citations

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39
papers

2,741
citations

26
h-index

41
g-index

41
ext. papers

3,087
ext. citations

6.8
avg, IF

4.89
L-index

#	Paper	IF	Citations
39	Origin of quantum-mechanical complementarity probed by a Which-way Experiment in an atom interferometer. <i>Nature</i> , 1998 , 395, 33-37	50.4	292
38	Strong dissipation inhibits losses and induces correlations in cold molecular gases. <i>Science</i> , 2008 , 320, 1329-31	33.3	235
37	Feshbach resonances in rubidium 87: precision measurement and analysis. <i>Physical Review Letters</i> , 2002 , 89, 283202	7.4	208
36	Observation of molecules produced from a Bose-Einstein condensate. <i>Physical Review Letters</i> , 2004 , 92, 020406	7.4	204
35	Single-photon transistor using a Feshbach resonance. <i>Physical Review Letters</i> , 2014 , 113, 053602	7.4	202
34	Single-photon switch based on Rydberg blockade. <i>Physical Review Letters</i> , 2014 , 112, 073901	7.4	176
33	Fringe Visibility and Which-Way Information in an Atom Interferometer. <i>Physical Review Letters</i> , 1998 , 81, 5705-5709	7.4	149
32	Control of a magnetic Feshbach resonance with laser light. <i>Nature Physics</i> , 2009 , 5, 339-342	16.2	117
31	Optical phase shift created with a single-photon pulse. <i>Science Advances</i> , 2016 , 2, e1600036	14.3	104
30	Remote entanglement between a single atom and a Bose-Einstein condensate. <i>Physical Review Letters</i> , 2011 , 106, 210503	7.4	89
29	Preparation of a quantum state with one molecule at each site of an optical lattice. <i>Nature Physics</i> , 2006 , 2, 692-695	16.2	87
28	Dissipation-induced hard-core boson gas in an optical lattice. <i>New Journal of Physics</i> , 2009 , 11, 013053	2.9	80
27	A photon-photon quantum gate based on Rydberg interactions. <i>Nature Physics</i> , 2019 , 15, 124-126	16.2	71
26	Quantitative wave-particle duality in multibeam interferometers. <i>Physical Review A</i> , 2001 , 64,	2.6	70
25	Dissociation of ultracold molecules with Feshbach resonances. <i>Physical Review A</i> , 2004 , 70,	2.6	67
24	Characterization of elastic scattering near a Feshbach resonance in 87Rb. <i>Physical Review A</i> , 2003 , 68,	2.6	66
23	Adiabatic following in standing-wave diffraction of atoms. <i>Applied Physics B: Lasers and Optics</i> , 1999 , 69, 303-309	1.9	52

22	Lieb-Liniger model of a dissipation-induced Tonks-Girardeau gas. <i>Physical Review A</i> , 2009 , 79,	2.6	42
21	Can waveparticle duality be based on the uncertainty relation?. <i>American Journal of Physics</i> , 2000 , 68, 1021-1024	0.7	40
20	Pendellung oscillations in second-order Bragg scattering of atoms from a standing light wave. <i>Quantum and Semiclassical Optics: Journal of the European Optical Society Part B</i> , 1996 , 8, 531-539		35
19	Bose-Einstein condensate as a quantum memory for a photonic polarization qubit. <i>Physical Review A</i> , 2012 , 85,	2.6	33
18	Atom-molecule Rabi oscillations in a Mott insulator. <i>Physical Review Letters</i> , 2007 , 99, 033201	7.4	29
17	Acceptance angle for Bragg reflection of atoms from a standing light wave. <i>Physical Review A</i> , 1999 , 59, 1495-1499	2.6	29
16	Standing wave diffraction with a beam of slow atoms. <i>Journal of Modern Optics</i> , 1997 , 44, 1863-1881	1.1	27
15	Combination of a magnetic Feshbach resonance and an optical bound-to-bound transition. <i>Physical Review A</i> , 2009 , 79,	2.6	26
14	Feshbach spectroscopy of a shape resonance. <i>Physical Review A</i> , 2005 , 72,	2.6	26
13	Influence of static electric fields on an optical ion trap. <i>Physical Review A</i> , 2012 , 85,	2.6	23
12	Collisional decay of Rb87 Feshbach molecules at 1005.8G. <i>Physical Review A</i> , 2006 , 74,	2.6	22
11	Collisional relaxation of Feshbach molecules and three-body recombination in Rb87 Bose-Einstein condensates. <i>Physical Review A</i> , 2007 , 75,	2.6	22
10	rf-induced Sisyphus cooling in an optical dipole trap. <i>Physical Review A</i> , 2002 , 66,	2.6	21
9	Complementarity and quantum erasure in an atom interferometer. <i>Optics Communications</i> , 2000 , 179, 323-335	2	20
8	Dissociation of Feshbach molecules into different partial waves. <i>Physical Review A</i> , 2005 , 72,	2.6	19
7	Coherent logic gate for light pulses based on storage in a Bose-Einstein condensate. <i>Physical Review Letters</i> , 2012 , 109, 263602	7.4	13
6	Wave-Particle Duality in an Atom Interferometer. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2000 , 42, 29-71	1.7	13
5	Localization of cold atoms in state-dependent optical lattices via a Rabi Pulse. <i>Physical Review Letters</i> , 2010 , 105, 160402	7.4	11

4	Breakdown of atomic hyperfine coupling in a deep optical-dipole trap. <i>Physical Review A</i> , 2015 , 92,	2.6	9
3	Improved loading of an optical dipole trap by suppression of radiative escape. <i>Physical Review A</i> , 2000 , 63,	2.6	7
2	Dark-time decay of the retrieval efficiency of light stored as a Rydberg excitation in a noninteracting ultracold gas. <i>Physical Review A</i> , 2020 , 101,	2.6	3
1	Increased dimensionality of Raman cooling in a slightly nonorthogonal optical lattice. <i>Physical Review A</i> , 2018 , 98,	2.6	2