

Kevin J Weatherill

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

36
papers

1,533
citations

18
h-index

39
g-index

42
ext. papers

1,781
ext. citations

3.9
avg, IF

4.3
L-index

#	Paper	IF	Citations
36	Collectively Encoded Rydberg Qubit. <i>Physical Review Letters</i> , 2021 , 127, 063604	7.4	1
35	Full-Field Terahertz Imaging at Kilohertz Frame Rates Using Atomic Vapor. <i>Physical Review X</i> , 2020 , 10,	9.1	16
34	Single-photon stored-light Ramsey interferometry using Rydberg polaritons. <i>Optics Letters</i> , 2020 , 45, 5888-5891	3	1
33	High-Speed THz Imaging for Production Line Monitoring 2019 ,		1
32	Probing interactions of thermal Sr Rydberg atoms using simultaneous optical and ion detection. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 115002	1.3	3
31	Intrinsic optical bistability in a strongly driven Rydberg ensemble. <i>Physical Review A</i> , 2016 , 93,	2.6	23
30	Driven-dissipative many-body systems with mixed power-law interactions: Bistabilities and temperature-driven nonequilibrium phase transitions. <i>Physical Review A</i> , 2016 , 94,	2.6	30
29	Dressed-state electromagnetically induced transparency for light storage in uniform-phase spin waves. <i>Physical Review A</i> , 2016 , 94,	2.6	10
28	Observation of interference effects via four-photon excitation of highly excited Rydberg states in thermal cesium vapor. <i>Optics Letters</i> , 2015 , 40, 5570-3	3	10
27	Probing an excited-state atomic transition using hyperfine quantum-beat spectroscopy. <i>Physical Review A</i> , 2014 , 90,	2.6	6
26	Nonequilibrium phase transition in a dilute Rydberg ensemble. <i>Physical Review Letters</i> , 2013 , 111, 113901.	7.4	141
25	NONLINEAR OPTICS USING COLD RYDBERG ATOMS. <i>Annual Review of Cold Atoms and Molecules</i> , 2013 , 301-350		44
24	Storage and control of optical photons using Rydberg polaritons. <i>Physical Review Letters</i> , 2013 , 110, 103001	7.4	202
23	Fast and quasideterministic single ion source from a dipole-blockaded atomic ensemble. <i>Physical Review Letters</i> , 2013 , 110, 213003	7.4	17
22	Three-photon electromagnetically induced transparency using Rydberg states: erratum. <i>Optics Letters</i> , 2013 , 38, 1853	3	
21	Optical coherences and wavelength mismatch in ladder systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013 , 46, 245001	1.3	25
20	Realization of the manipulation of ultracold atoms with a reconfigurable nanomagnetic system of domain walls. <i>Nano Letters</i> , 2012 , 12, 4065-9	11.5	22

19	A simple model for calculating magnetic nanowire domain wall fringing fields. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 095002	3	6
18	Three-photon electromagnetically induced transparency using Rydberg states. <i>Optics Letters</i> , 2012 , 37, 3858-60	3	42
17	Polarization spectroscopy of an excited state transition. <i>Optics Letters</i> , 2012 , 37, 118-20	3	44
16	Subnatural linewidths in two-photon excited-state spectroscopy. <i>Physical Review A</i> , 2012 , 85,	2.6	19
15	Piezoelectrically actuated time-averaged atomic microtraps. <i>Applied Physics Letters</i> , 2012 , 101, 023115	3.4	9
14	Optical non-linearity in a dynamical Rydberg gas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 184019	1.3	17
13	Nanomagnetic engineering of the properties of domain wall atom traps. <i>Journal of Applied Physics</i> , 2011 , 110, 123918	2.5	7
12	Quantum interference in interacting three-level Rydberg gases: coherent population trapping and electromagnetically induced transparency. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 184018	1.3	47
11	Microwave dressing of Rydberg dark states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 184020	1.3	54
10	Design and characterization of a field-switchable nanomagnetic atom mirror. <i>Journal of Applied Physics</i> , 2010 , 108, 043906	2.5	6
9	Cooperative atom-light interaction in a blockaded Rydberg ensemble. <i>Physical Review Letters</i> , 2010 , 105, 193603	7.4	354
8	A versatile and reliably reusable ultrahigh vacuum viewport. <i>Review of Scientific Instruments</i> , 2009 , 80, 026105	1.7	9
7	Narrow absorptive resonances in a four-level atomic system. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009 , 42, 075503	1.3	44
6	Laser frequency stabilization to excited state transitions using electromagnetically induced transparency in a cascade system. <i>Applied Physics Letters</i> , 2009 , 94, 071107	3.4	73
5	A giant electro-optic effect using polarizable dark states. <i>Nature Physics</i> , 2008 , 4, 890-894	16.2	132
4	Electro-optic control of atom-light interactions using Rydberg dark-state polaritons. <i>Physical Review A</i> , 2008 , 77,	2.6	16
3	Electromagnetically induced transparency of an interacting cold Rydberg ensemble. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008 , 41, 201002	1.3	67
2	Spatially selective loading of an optical lattice by light-shift engineering using an auxiliary laser field. <i>New Journal of Physics</i> , 2006 , 8, 11-11	2.9	20

1 Fast switching of alkali atom dispensers using laser-induced heating. *Review of Scientific Instruments*, **2005**, 76, 093102

1.7 13