James Keaveney

List of Publications by Year in descending order

38 papers	982 citations	471509 17 h-index	501196 28 g-index
40 all docs	40 docs citations	40 times ranked	584 citing authors

#	Article	IF	Citations
1	Quantitative optical spectroscopy of ⁸⁷Rb vapour in the Voigt geometry in DC magnetic fields up to 0.4 T. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 055003.	1.5	13
2	Optical Transmission of an Atomic Vapor in the Mesoscopic Regime. Physical Review Letters, 2019, 122, 113401.	7.8	26
3	Atomic Vapor Confined in a Nanoscale Geometry: From Mesoscopic to Collective Effects. , 2019, , .		0
4	Quasisimultons in Thermal Atomic Vapors. Physical Review Letters, 2019, 123, 243604.	7.8	3
5	Selective Reflection of Potassium Vapor Nanolayers in a Magnetic Field. Journal of Experimental and Theoretical Physics, 2018, 126, 293-301.	0.9	5
6	Automated translating beam profiler for in situ laser beam spot-size and focal position measurements. Review of Scientific Instruments, 2018, 89, 035114.	1.3	12
7	ElecSus: Extension to arbitrary geometry magneto-optics. Computer Physics Communications, 2018, 224, 311-324.	7.5	30
8	Four-wave mixing in a non-degenerate four-level diamond configuration in the hyperfine Paschenâ€“Back regime. Journal of Modern Optics, 2018, 65, 713-722.	1.3	31
9	Optimized ultra-narrow atomic bandpass filters via magneto-optic rotation in an unconstrained geometry. Optics Letters, 2018, 43, 4272.	3.3	26
10	Simultaneous two-photon resonant optical laser locking (STROLLing) in the hyperfine Paschenâ€“Back regime. Optics Letters, 2018, 43, 4204.	3.3	16
11	Collective Lamb Shift of a Nanoscale Atomic Vapor Layer within a Sapphire Cavity. Physical Review Letters, 2018, 120, 243401.	7.8	52
12	Single-Photon Interference due to Motion in an Atomic Collective Excitation. Physical Review Letters, 2017, 118, 253601.	7.8	38
13	A single-mode external cavity diode laser using an intra-cavity atomic Faraday filter with short-term linewidth <400 kHz and long-term stability of <1 MHz. Review of Scientific Instruments, 2016, 87, 095111.	1.3	33
14	Direct measurement of excited-state dipole matrix elements using electromagnetically induced transparency in the hyperfine Paschen-Back regime. Physical Review A, 2016, 93, .	2.5	35
15	Spectroscopic detection of atom-surface interactions in an atomic-vapor layer with nanoscale thickness. Physical Review A, 2015, 92, .	2.5	18
16	Publisher's Note: Hilbert transform: Applications to atomic spectra [Phys. Rev. A91, 032513 (2015)]. Physical Review A, 2015, 92, .	2.5	0
17	Interrogation and fabrication of nm scale hot alkali vapour cells. Journal of Physics: Conference Series, 2015, 635, 122006.	0.4	16
18	Optimization of atomic Faraday filters in the presence of homogeneous line broadening. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 185001.	1.5	24

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19	ElecSus: A program to calculate the electric susceptibility of an atomic ensemble. Computer Physics Communications, 2015, 189, 162-174.	7.5	105
20	Atomic Faraday filter with equivalent noise bandwidth less than 1â€‰â€‰GHz. Optics Letters, 2015, 40, 2000.	3.3	55
21	Hilbert transform: Applications to atomic spectra. Physical Review A, 2015, 91, .	2.5	16
22	Electromagnetically induced absorption in a nondegenerate three-level ladder system. Optics Letters, 2015, 40, 4289.	3.3	37
23	Optical Response of Gas-Phase Atoms at Less than<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î»</mml:mi><mml:mo stretchy="false">/</mml:mo><mml:mn>80</mml:mn></mml:math>from a Dielectric Surface. Physical Review Letters, 2014, 112, 253201.	7.8	37
24	Probing an excited-state atomic transition using hyperfine quantum-beat spectroscopy. Physical Review A, 2014, 90, .	2.5	7
25	Active narrowband filtering, line narrowing and gain using ladder electromagnetically induced transparency in an optically thick atomic vapour. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 075002.	1.5	17
26	High-contrast atomic dark resonances formed in a ladder system of rubidium atoms in submicron structures. Journal of Experimental and Theoretical Physics, 2014, 119, 8-14.	0.9	7
27	Collective Atomâ€“Light Interactions in Dense Atomic Vapours. Springer Theses, 2014, , .	0.1	14
28	Atomâ€“Light Interactions for Independent Atoms. Springer Theses, 2014, , 9-19.	0.1	0
29	Project Outlook. Springer Theses, 2014, , 127-128.	0.1	0
30	Fast Light in Dense Thermal Vapour. Springer Theses, 2014, , 85-102.	0.1	0
31	Giant Refractive Index. Springer Theses, 2014, , 73-84.	0.1	0
32	Fluorescence Lifetime. Springer Theses, 2014, , 103-110.	0.1	0
33	Atomâ€“Atom Interactions. Springer Theses, 2014, , 43-71.	0.1	0
34	Atomâ€“Surface Interactions. Springer Theses, 2014, , 35-42.	0.1	0
35	Thin Cell Spectroscopy. Springer Theses, 2014, , 21-34.	0.1	0
36	Cooperative Lamb Shift in an Atomic Vapor Layer of Nanometer Thickness. Physical Review Letters, 2012, 108, 173601.	7.8	222

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37	Maximal Refraction and Superluminal Propagation in a Gaseous Nanolayer. Physical Review Letters, 2012, 109, 233001.	7.8	59
38	Effect of buffer gas on an electromagnetically induced transparency in a ladder system using thermal rubidium vapor. Physical Review A, 2010, 82, .	2.5	28