

# James Keaveney

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Cooperative Lamb Shift in an Atomic Vapor Layer of Nanometer Thickness. <i>Physical Review Letters</i> , 2012, 108, 173601.	7.8	222
2	ElecSus: A program to calculate the electric susceptibility of an atomic ensemble. <i>Computer Physics Communications</i> , 2015, 189, 162-174.	7.5	105
3	Maximal Refraction and Superluminal Propagation in a Gaseous Nanolayer. <i>Physical Review Letters</i> , 2012, 109, 233001.	7.8	59
4	Atomic Faraday filter with equivalent noise bandwidth less than 1â€‰GHz. <i>Optics Letters</i> , 2015, 40, 2000.	3.3	55
5	Collective Lamb Shift of a Nanoscale Atomic Vapor Layer within a Sapphire Cavity. <i>Physical Review Letters</i> , 2018, 120, 243401.	7.8	52
6	Single-Photon Interference due to Motion in an Atomic Collective Excitation. <i>Physical Review Letters</i> , 2017, 118, 253601.	7.8	38
7	Optical Response of Gas-Phase Atoms at Less than $\hat{\nu}$ from a Dielectric Surface. <i>Physical Review Letters</i> , 2014, 112, 253201.	7.8	37
8	Electromagnetically induced absorption in a nondegenerate three-level ladder system. <i>Optics Letters</i> , 2015, 40, 4289.	3.3	37
9	Direct measurement of excited-state dipole matrix elements using electromagnetically induced transparency in the hyperfine Paschen-Back regime. <i>Physical Review A</i> , 2016, 93, .	2.5	35
10	A single-mode external cavity diode laser using an intra-cavity atomic Faraday filter with short-term linewidth $\leq$ 400 kHz and long-term stability of $\leq$ 1 MHz. <i>Review of Scientific Instruments</i> , 2016, 87, 095111.	1.3	33
11	Four-wave mixing in a non-degenerate four-level diamond configuration in the hyperfine Paschen-Back regime. <i>Journal of Modern Optics</i> , 2018, 65, 713-722.	1.3	31
12	ElecSus: Extension to arbitrary geometry magneto-optics. <i>Computer Physics Communications</i> , 2018, 224, 311-324.	7.5	30
13	Effect of buffer gas on an electromagnetically induced transparency in a ladder system using thermal rubidium vapor. <i>Physical Review A</i> , 2010, 82, .	2.5	28
14	Optimized ultra-narrow atomic bandpass filters via magneto-optic rotation in an unconstrained geometry. <i>Optics Letters</i> , 2018, 43, 4272.	3.3	26
15	Optical Transmission of an Atomic Vapor in the Mesoscopic Regime. <i>Physical Review Letters</i> , 2019, 122, 113401.	7.8	26
16	Optimization of atomic Faraday filters in the presence of homogeneous line broadening. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 185001.	1.5	24
17	Spectroscopic detection of atom-surface interactions in an atomic-vapor layer with nanoscale thickness. <i>Physical Review A</i> , 2015, 92, .	2.5	18
18	Active narrowband filtering, line narrowing and gain using ladder electromagnetically induced transparency in an optically thick atomic vapour. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 075002.	1.5	17

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19	Interrogation and fabrication of nm scale hot alkali vapour cells. Journal of Physics: Conference Series, 2015, 635, 122006.	0.4	16
20	Hilbert transform: Applications to atomic spectra. Physical Review A, 2015, 91, .	2.5	16
21	Simultaneous two-photon resonant optical laser locking (STROLLing) in the hyperfine Paschenâ€œBack regime. Optics Letters, 2018, 43, 4204.	3.3	16
22	Collective Atomâ€œLight Interactions in Dense Atomic Vapours. Springer Theses, 2014, , .	0.1	14
23	Quantitative optical spectroscopy of <sup>87</sup> Rb 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
24	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
25	Probing an excited-state atomic transition using hyperfine quantum-beat spectroscopy. Physical Review A, 2014, 90, .	2.5	7
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	Selective Reflection of Potassium Vapor Nanolayers in a Magnetic Field. Journal of Experimental and Theoretical Physics, 2018, 126, 293-301.	0.9	5
28	Quasisimultons in Thermal Atomic Vapors. Physical Review Letters, 2019, 123, 243604.	7.8	3
29	Publisher's Note: Hilbert transform: Applications to atomic spectra [Phys. Rev. A <b>91</b> , 032513 (2015)]. Physical Review A, 2015, 92, .	2.5	0
30	Atomic Vapor Confined in a Nanoscale Geometry: From Mesoscopic to Collective Effects. , 2019, , .		0
31	Atomâ€œLight Interactions for Independent Atoms. Springer Theses, 2014, , 9-19.	0.1	0
32	Project Outlook. Springer Theses, 2014, , 127-128.	0.1	0
33	Fast Light in Dense Thermal Vapour. Springer Theses, 2014, , 85-102.	0.1	0
34	Giant Refractive Index. Springer Theses, 2014, , 73-84.	0.1	0
35	Fluorescence Lifetime. Springer Theses, 2014, , 103-110.	0.1	0
36	Atomâ€œAtom Interactions. Springer Theses, 2014, , 43-71.	0.1	0

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37	Atom-Surface Interactions. Springer Theses, 2014, , 35-42.	0.1	0
38	Thin Cell Spectroscopy. Springer Theses, 2014, , 21-34.	0.1	0