

Elizabeth A Donley

List of Publications by Year in descending order

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101
papers

4,835
citations

159358

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h-index

91712

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104
all docs

104
docs citations

104
times ranked

3183
citing authors

#	ARTICLE	IF	CITATIONS
1	General Methods for Suppressing the Light Shift in Atomic Clocks Using Power Modulation. <i>Physical Review Applied</i> , 2020, 14, .	1.5	21
2	Dynamic Characterization of an Alkali-Ion Battery as a Source for Laser-Cooled Atoms. <i>Physical Review Applied</i> , 2020, 13, .	1.5	14
3	Robust inertial sensing with point-source atom interferometry for interferograms spanning a partial period. <i>Optics Express</i> , 2020, 28, 34516.	1.7	3
4	A cold-atom beam clock based on coherent population trapping. <i>Applied Physics Letters</i> , 2019, 115, 033503.	1.5	19
5	Single-Source Multiaxis Cold-Atom Interferometer in a Centimeter-Scale Cell. <i>Physical Review Applied</i> , 2019, 12, .	1.5	32
6	Ramsey Spectroscopy with Displaced Frequency Jumps. <i>Physical Review Letters</i> , 2019, 122, 113601.	2.9	24
7	Reduction of light shifts in Ramsey spectroscopy with a combined error signal. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	19
8	Magneto-optic trap using a reversible, solid-state alkali-metal source. <i>Optics Letters</i> , 2019, 44, 3002.	1.7	18
9	A Cold Atomic Beam Ramsey CPT Clock. , 2018, , .		0
10	ac Stark shifts of dark resonances probed with Ramsey spectroscopy. <i>Physical Review A</i> , 2018, 98, .	1.0	19
11	Combined error signal in Ramsey spectroscopy of clock transitions. <i>New Journal of Physics</i> , 2018, 20, 123016.	1.2	16
12	Editorial Introduction to the Special Issue on the IEEE International Frequency Control Symposium (IFCS) and European Frequency and Time Forum (EFTF). <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018, 65, 897-897.	1.7	0
13	Active stabilization of alkali-atom vapor density with a solid-state electrochemical alkali-atom source. <i>Optics Express</i> , 2018, 26, 3696.	1.7	8
14	Analytical tools for point source interferometry. , 2017, , .		0
15	Trade-offs in size and performance for a point source interferometer gyroscope. , 2017, , .		0
16	A low-power reversible alkali atom source. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	18
17	An optimized microfabricated platform for the optical generation and detection of hyperpolarized ^{129}Xe . <i>Scientific Reports</i> , 2017, 7, 43994.	1.6	18
18	High contrast dark resonances in a cold-atom clock probed with counterpropagating circularly polarized beams. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	35

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19	Low-Drift Coherent Population Trapping Clock Based on Laser-Cooled Atoms and High-Coherence Excitation Fields. <i>Physical Review Applied</i> , 2017, 8, .	1.5	46
20	Frequency shift mitigation in a cold-atom CPT clock. , 2016, , .		1
21	Compact atom-interferometer gyroscope based on an expanding ball of atoms. <i>Journal of Physics: Conference Series</i> , 2016, 723, 012058.	0.3	3
22	Low helium permeation cells for atomic microsystems technology. <i>Optics Letters</i> , 2016, 41, 2775.	1.7	42
23	Dependence of scale factor on initial cloud size for an atom-ball gyroscope. , 2016, , .		0
24	NIST on a chip with alkali vapor cells: Initial results. , 2016, , .		1
25	NIST on a Chip: Realizing SI units with microfabricated alkali vapour cells. <i>Journal of Physics: Conference Series</i> , 2016, 723, 012056.	0.3	35
26	Extended source interferometry in the compact regime. , 2016, , .		0
27	Point source atom interferometry with a cloud of finite size. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	31
28	Chip-scale MOT for Microsystems Technology. , 2016, , .		1
29	Light shifts in a pulsed cold-atom coherent-population-trapping clock. <i>Physical Review A</i> , 2015, 91, .	1.0	35
30	First accuracy evaluation of NIST-F2. <i>Metrologia</i> , 2014, 51, 174-182.	0.6	153
31	Optical hyperpolarization and NMR detection of ^{129}Xe on a microfluidic chip. <i>Nature Communications</i> , 2014, 5, 3908.	5.8	58
32	High-Accuracy Measurement of the Blackbody Radiation Frequency Shift of the Ground-State Hyperfine Transition in ^{133}Cs . <i>Physical Review Letters</i> , 2014, 112, 050801.	2.9	25
33	Frequency biases in a cold-atom coherent population trapping clock. , 2014, , .		2
34	A View on Energy Transfer Between Cold Atoms. <i>Science</i> , 2013, 342, 942-943.	6.0	0
35	Atom number in magneto-optic traps with millimeter scale laser beams. <i>Optics Letters</i> , 2013, 38, 661.	1.7	20
36	Cold-atom double- $\hat{\Lambda}$ coherent population trapping clock. <i>Physical Review A</i> , 2013, 88, .	1.0	68

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37	Cancellation of Doppler shifts in a cold-atom CPT clock. , 2013, , .		0
38	A compact cold-atom frequency standard based on coherent population trapping. , 2012, , .		0
39	Atom-number amplification in a magneto-optical trap via stimulated light forces. <i>Physical Review A</i> , 2012, 85, .	1.0	13
40	Atomic Sensors – A Review. <i>IEEE Sensors Journal</i> , 2011, 11, 1749-1758.	2.4	231
41	MOT loading enhancement with stimulated light forces. , 2011, , .		0
42	Status of a compact cold-atom CPT frequency standard. , 2011, , .		1
43	Offset phase locking of noisy diode lasers aided by frequency division. <i>Review of Scientific Instruments</i> , 2011, 82, 083110.	0.6	15
44	Towards a compact cold atom frequency standard based on coherent population trapping. , 2010, , .		1
45	Number enhancement for compact laser-cooled atomic samples by use of stimulated radiation forces. , 2010, , .		0
46	Nuclear magnetic resonance gyroscopes. , 2010, , .		54
47	Cryogenic fountain development at NIST and INRIM: preliminary characterization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010, 57, 600-605.	1.7	20
48	Nuclear quadrupole resonances in compact vapor cells: The crossover between the NMR and the nuclear quadrupole resonance interaction regimes. <i>Physical Review A</i> , 2009, 79, .	1.0	43
49	The cryogenic fountain ITCsF2. , 2009, , .		3
50	Rubidium vapor cell with integrated Bragg reflectors for compact atomic MEMS. <i>Sensors and Actuators A: Physical</i> , 2009, 154, 295-303.	2.0	24
51	CHIP-SCALE ATOMIC DEVICES: PRECISION ATOMIC INSTRUMENTS BASED ON MEMS. , 2009, , .		5
52	Glass-blown spherical microcells for chip-scale atomic devices. <i>Sensors and Actuators A: Physical</i> , 2008, 143, 175-180.	2.0	63
53	Differential atomic magnetometry based on a diverging laser beam. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	15
54	Demonstration of high-performance compact magnetic shields for chip-scale atomic devices. <i>Review of Scientific Instruments</i> , 2007, 78, 083102.	0.6	35

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55	Spherical rubidium vapor cells fabricated by micro glass blowing. , 2007, , .		3
56	Absolute Optical Frequency Measurements with a Fractional Frequency Uncertainty at 1×10^{-15} . , 2006, , .		0
57	Single-Atom Optical Clock with High Accuracy. Physical Review Letters, 2006, 97, 020801.	2.9	251
58	Atom-Molecule Coherence in 85Rb BEC. , 2005, , 311-319.		0
59	PARCS: NASA's laser-cooled atomic clock in space. Advances in Space Research, 2005, 36, 107-113.	1.2	18
60	Recent Improvements in NIST-F1 and a Resulting Accuracy of $\Delta f/f = 0.61 \times 10^{-15}$. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 842-845.	2.4	19
61	Optical Molasses Loaded From a Low-Velocity Intense Source of Atoms: An Atom Source for Improved Atomic Fountains. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 1905-1910.	2.4	8
62	NIST-F1: recent improvements and accuracy evaluations. Metrologia, 2005, 42, 411-422.	0.6	169
63	Double-pass acousto-optic modulator system. Review of Scientific Instruments, 2005, 76, 063112.	0.6	145
64	Operation of the NIST-F1 caesium fountain primary frequency standard with a maser ensemble, including the impact of frequency transfer noise. Metrologia, 2005, 42, 423-430.	0.6	36
65	Quantum-based microwave power measurements: Proof-of-concept experiment. Review of Scientific Instruments, 2004, 75, 2575-2580.	0.6	34
66	Measurement of dynamic end-to-end cavity phase shifts in cesium-fountain frequency standards. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 652-653.	1.7	3
67	Cesium Primary Frequency References. Japanese Journal of Applied Physics, 2004, 43, 2803-2807.	0.8	6
68	Measurement of dynamic end-to-end cavity phase shifts in cesium-fountain frequency standards. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2004, 51, 652-653.	1.7	1
69	Very-high-precision bound-state spectroscopy near a 85Rb Feshbach resonance. Physical Review A, 2003, 67, .	1.0	116
70	Atom-Molecule Coherence Near a Feshbach Resonance in a Bose-Einstein Condensate. , 2003, , .		0
71	Microscopic Dynamics in a Strongly Interacting Bose-Einstein Condensate. Physical Review Letters, 2002, 89, 010401.	2.9	87
72	Atom-molecule coherence in a Bose-Einstein condensate. Nature, 2002, 417, 529-533.	13.7	600

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73	QUANTUM IMPLOSIONS AND EXPLOSIONS IN A 85RB BEC. , 2002, , .		0
74	Dynamics of collapsing and exploding Bose-Einstein condensates. Nature, 2001, 412, 295-299.	13.7	670
75	Some simple mechanisms of multiphoton excitation in many-level systems. Molecular Physics, 2001, 99, 1275-1287.	0.8	13
76	Statistics for Single Molecule Spectroscopy Data. Single Molecules, 2001, 2, 23-30.	1.7	10
77	Controlled Collapse of a Bose-Einstein Condensate. Physical Review Letters, 2001, 86, 4211-4214.	2.9	375
78	Electronic Energy Relaxation and Transition Frequency Jumps of Single Molecules at 30 mK. Physical Review Letters, 2001, 87, 015504.	2.9	4
79	Luminescence lifetimes of single molecules in disordered media. Journal of Chemical Physics, 2001, 114, 9993-9997.	1.2	21
80	Improved characterization of elastic scattering near a Feshbach resonance in 85Rb. Physical Review A, 2001, 64, .	1.0	38
81	Statistics of a single terrylene molecule in hexadecane. Journal of Luminescence, 2000, 86, 175-180.	1.5	4
82	Zero-phonon lines of single molecules in polyethylene down to millikelvin temperatures. Journal of Luminescence, 2000, 87-89, 109-114.	1.5	20
83	Spectral diffusion in polyethylene: Single-molecule studies performed between 30 mK and 1.8 K. Journal of Chemical Physics, 2000, 113, 9294-9299.	1.2	16
84	The distribution of line widths of single probe molecules in a crystalline host at milliKelvin temperatures. Journal of Luminescence, 1999, 83-84, 255-259.	1.5	30
85	Coupling Strength Distributions for Dynamic Interactions Experienced by Probe Molecules in a Polymer Host. Journal of Physical Chemistry A, 1999, 103, 2282-2289.	1.1	32
86	Single molecule microscopy: peak-frequency trajectories and linewidth distribution. Optical Materials, 1998, 9, 376-380.	1.7	11
87	A comparison of molecular hyperpolarizabilities from gas and liquid phase measurements. Journal of Chemical Physics, 1998, 108, 849-856.	1.2	240
88	Optical-dipole-force fiber guiding and heating of atoms. Physical Review A, 1997, 55, 3684-3696.	1.0	52
89	SINGLE-MOLECULE SPECTROSCOPY. Annual Review of Physical Chemistry, 1997, 48, 181-212.	4.8	203
90	Evanescent-wave guiding of atoms in hollow optical fibers. Physical Review A, 1996, 53, R648-R651.	1.0	133

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91	Hyperpolarizabilities measured for interacting molecular pairs. Chemical Physics Letters, 1993, 215, 156-162.	1.2	18
92	Gas pump with a magnetically coupled piston. Review of Scientific Instruments, 1993, 64, 2399-2400.	0.6	1
93	A comparison of calculated and experimental hyperpolarizabilities for acetonitrile in gas and liquid phases. Journal of Chemical Physics, 1993, 98, 5595-5603.	1.2	83
94	The hyperpolarizability dispersion of neon is not anomalous. Chemical Physics Letters, 1992, 195, 591-595.	1.2	24
95	Progress on a miniature laser-cooled cesium fountain frequency standard. , 0, , .		0
96	A quantum-based microwave power measurement performed with a miniature atomic fountain. , 0, , .		4
97	Development of a quantum based microwave power measurement. , 0, , .		1
98	Progress towards the second-generation atomic fountain clock at NIST. , 0, , .		2
99	Laser cooling and launching performance in a (1,1,1)-geometry atomic fountain. , 0, , .		1
100	A new microwave synthesis chain for the primary frequency standard NIST-F1. , 0, , .		12
101	On the power dependence of extraneous microwave fields in atomic frequency standards. , 0, , .		5