

# Benjamin L Augenbraun

## 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.

18  
papers

738  
citations

11  
h-index

19  
g-index

19  
ext. papers

1,059  
ext. citations

7  
avg, IF

4.4  
L-index

#	Paper	IF	Citations
18	Franck-Condon Tuning of Optical Cycling Centers by Organic Functionalization. <i>Physical Review Letters</i> , <b>2021</b> , 126, 123002	7.4	10
17	Establishing a nearly closed cycling transition in a polyatomic molecule. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	9
16	Observation and laser spectroscopy of ytterbium monomethoxide, YbOCH <sub>3</sub> . <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	5
15	Accurate prediction and measurement of vibronic branching ratios for laser cooling linear polyatomic molecules. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 091101	3.9	5
14	Zeeman-Sisyphus Deceleration of Molecular Beams.. <i>Physical Review Letters</i> , <b>2021</b> , 127, 263002	7.4	3
13	1D Magneto-Optical Trap of Polyatomic Molecules. <i>Physical Review Letters</i> , <b>2020</b> , 124, 133201	7.4	34
12	Laser-cooled polyatomic molecules for improved electron electric dipole moment searches. <i>New Journal of Physics</i> , <b>2020</b> , 22, 022003	2.9	48
11	Branching Ratios, Radiative Lifetimes, and Transition Dipole Moments for YbOH. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 3135-3148	2.8	7
10	Assessment and mitigation of aerosol airborne SARS-CoV-2 transmission in laboratory and office environments. <i>Journal of Occupational and Environmental Hygiene</i> , <b>2020</b> , 17, 447-456	2.9	17
9	Molecular Asymmetry and Optical Cycling: Laser Cooling Asymmetric Top Molecules. <i>Physical Review X</i> , <b>2020</b> , 10,	9.1	17
8	Direct laser cooling of a symmetric top molecule. <i>Science</i> , <b>2020</b> , 369, 1366-1369	33.3	44
7	Enhanced Imaging of Molecules in an Optical Trap. <i>Physical Review Letters</i> , <b>2018</b> , 121, 083201	7.4	59
6	3D Magneto-Optical Trap of Yttrium Monoxide. <i>Physical Review Letters</i> , <b>2018</b> , 121, 213201	7.4	92
5	Laser cooling of optically trapped molecules. <i>Nature Physics</i> , <b>2018</b> , 14, 890-893	16.2	111
4	One-dimensional magneto-optical compression of a cold CaF molecular beam. <i>New Journal of Physics</i> , <b>2017</b> , 19, 033035	2.9	11
3	Radio Frequency Magneto-Optical Trapping of CaF with High Density. <i>Physical Review Letters</i> , <b>2017</b> , 119, 103201	7.4	123
2	Sisyphus Laser Cooling of a Polyatomic Molecule. <i>Physical Review Letters</i> , <b>2017</b> , 118, 173201	7.4	139

- 1 Measurement of the scalar polarizability of the indium  $6p_{1/2}$  state using two-step atomic-beam spectroscopy. *Physical Review A*, **2016**, 94, 2.6 4