Dimitrios Sofikitis

List of Publications by Year
in descending order

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40 papers	578 citations	623734 14 h-index	642732 23 g-index
40 all docs	40 docs citations	40 times ranked	496 citing authors

#	Article	IF	Citations
1	Evanescent-wave and ambient chiral sensing by signal-reversing cavity ringdown polarimetry. Nature, 2014, 514, 76-79.	27.8	107
2	Photofragment slice imaging studies of pyrrole and the Xeâ‹¯pyrrole cluster. Journal of Chemical Physics, 2007, 127, 064306.	3.0	43
3	Chiral cavity ring down polarimetry: Chirality and magnetometry measurements using signal reversals. Journal of Chemical Physics, 2015, 143, 104202.	3.0	32
4	Laser detection of spin-polarized hydrogen from HCl and HBr photodissociation: Comparison of H- and halogen-atom polarizations. Journal of Chemical Physics, 2008, 129, 144302.	3.0	28
5	Molecular vibrational cooling by optical pumping with shaped femtosecond pulses. New Journal of Physics, 2009, 11, 055037.	2.9	28
6	Ultrahigh-Density Spin-Polarized H and D Observed via Magnetization Quantum Beats. Physical Review Letters, 2018, 121, 083001.	7.8	27
7	Highly Nuclear-Spin-Polarized Deuterium Atoms from the UV Photodissociation of Deuterium Iodide. Physical Review Letters, 2017, 118, 233401.	7.8	25
8	Polarized proton beams from laser-induced plasmas. High Power Laser Science and Engineering, 2019, 7, .	4.6	25
9	Vibrational cooling of cesium molecules using noncoherent broadband light. Physical Review A, 2009, 80, .	2.5	22
10	Preparation of oriented and aligned H2 and HD by stimulated Raman pumping. Journal of Chemical Physics, 2008, 129, 084312.	3.0	20
11	Time-dependent polarization transfer from molecular rotation to nuclear spin. Physical Review A, 2006, 74, .	2.5	19
12	Preparation of highly polarized nuclei: Observation and control of time-dependent polarization transfer from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">H</mml:mi><mml:mmultiscripts><mml:mi mathvariant="normal">Cl</mml:mi><mml:mprescripts /><mml:none /><mml:mn>35</mml:mn></mml:mmultiscripts></mml:mrow></mml:math>molecular rotation to<mml:	2.5	18
13	Time-dependent depolarization of aligned HD molecules. Physical Chemistry Chemical Physics, 2009, 11, 142-147.	2.8	17
14	Optical control of ground-state atomic orbital alignment: Cl(P3âˆ•22) atoms from HCl(v=2,J=1) photodissociation. Journal of Chemical Physics, 2007, 127, 144307.	3.0	15
15	Nanosecond control and high-density production of spin-polarized hydrogen atoms. Europhysics Letters, 2008, 81, 68002.	2.0	15
16	Ultrahigh-density spin-polarized hydrogen isotopes from the photodissociation of hydrogen halides: new applications for laser-ion acceleration, magnetometry, and polarized nuclear fusion. Light: Science and Applications, 2021, 10, 35.	16.6	14
17	Cold cesium molecules: from formation to cooling. Journal of Modern Optics, 2009, 56, 2089-2099.	1.3	12
18	Recoil Inversion in the Photodissociation of Carbonyl Sulfide near 234Ânm. Physical Review Letters, 2017, 118, 253001.	7.8	11

#	Article	IF	Citations
19	Vibrational cooling of cold molecules with optimised shaped pulses. Molecular Physics, 2010, 108, 795-810.	1.7	9
20	Sensitivity enhancement for evanescent-wave sensing using cavity-ring-down ellipsometry. Optics Letters, 2013, 38, 1224.	3.3	9
21	Microsecond-resolved SDR-based cavity ring down ellipsometry. Applied Optics, 2015, 54, 5861.	2.1	9
22	Polarized proton beams from a laser-plasma accelerator. International Journal of Modern Physics A, 2019, 34, 1942028.	1.5	9
23	Gas-phase optical activity measurements using a compact cavity ringdown polarimeter. Laser Physics, 2020, 30, 075602.	1.2	9
24	Loading a dipole trap from an atomic reservoir. European Physical Journal D, 2011, 61, 437-442.	1.3	8
25	Optical activity of lysozyme in solution at 532Ânm via signal-reversing cavity ring-down polarimetry. Chemical Physics Letters, 2020, 747, 137345.	2.6	7
26	Broadband Vibrational Cooling of Cold Cesium Molecules: Theory and Experiments. Chinese Journal of Chemical Physics, 2009, 22, 149-156.	1.3	5
27	Broadband lasers to detect and cool the vibration of cold molecules. Faraday Discussions, 2009, 142, 257.	3.2	5
28	Exit-channel recoil resonances by imaging the photodissociation of single quantum-state-selected OCS molecules. Physical Review A, 2018, 98, .	2.5	5
29	Depolarization of spin-polarized hydrogen via collisions with chlorine atoms at ultrahigh density. Chemical Physics Impact, 2021, 2, 100022.	3.5	4
30	Laser preparation of spin-polarized atoms from molecular photodissociation. Physica Scripta, 2006, 73, C71-C75.	2.5	3
31	(2+1) laser-induced fluorescence of spin-polarized hydrogen atoms. Journal of Chemical Physics, 2010, 133, 174308.	3.0	3
32	Spin-Polarized Hydrogen Depolarization Rates at High Hydrogen Halide Pressures: Hyperfine Depolarization via the HYâ€“H Complex. Journal of Physical Chemistry A, 2019, 123, 8130-8134.	2.5	3
33	Observation of a Freeman resonance in the femtosecond ionization of Methyl Iodide. Chemical Physics Letters, 2020, 759, 137984.	2.6	3
34	Mesoscopic production of hyperpolarizedN215OandH2Ovia optical excitation. Physical Review A, 2015, 92, .	2.5	2
35	Nuclear-spin-polarization dynamics of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>,<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">D</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>, and HD molecules in magnetic fields. Physical Review A, 2018, 98, .	2.5	2
36	Cavity-based Chiral Polarimetry. , 2018, , 649-678.		2

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37	Photofragment spin-polarization measurements via magnetization quantum beats: dynamics of DI photodissociation. Physical Chemistry Chemical Physics, 2019, 21, 14000-14004.	2.8	2
38	A nanosecond-resolved atomic hydrogen magnetometer. Physical Chemistry Chemical Physics, 2021, 23, 21521-21531.	2.8	1
39	Stark shift and parity nonconservation for near-degenerate states of xenon. Physical Review A, 2014, 89, .	2.5	0
40	Wavelength dependence of the angular distribution of the Coulomb explosion in the femtosecond ionisation of methyl iodide. Molecular Physics, 0, , .	1.7	0