

Tanya Zelevinsky

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,203
citations

361413

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434195

31
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33
all docs

33
docs citations

33
times ranked

1020
citing authors

#	ARTICLE	IF	CITATIONS
1	Precision Test of Mass-Ratio Variations with Lattice-Confined Ultracold Molecules. Physical Review Letters, 2008, 100, 043201.	7.8	239
2	Narrow Line Photoassociation in an Optical Lattice. Physical Review Letters, 2006, 96, 203201.	7.8	98
3	Precise study of asymptotic physics with subradiant ultracold molecules. Nature Physics, 2015, 11, 32-36.	16.7	89
4	Optical Production of Stable Ultracold Sr^2 Molecules. Physical Review Letters, 2012, 109, 115303.	7.8	75
5	Molecular lattice clock with long vibrational coherence. Nature Physics, 2019, 15, 1118-1122.	16.7	65
6	A broadband chip-scale optical frequency synthesizer at $2.7 \text{ \AA}^{-1} \times 10^{16}$ relative uncertainty. Science Advances, 2016, 2, e1501489.	10.3	65
7	Photodissociation of ultracold diatomic strontium molecules with quantum state control. Nature, 2016, 535, 122-126.	27.8	53
8	Prospects for application of ultracold Sr^2 molecules in precision measurements. Physical Review A, 2009, 79, .	2.5	45
9	Molecular Asymmetry and Optical Cycling: Laser Cooling Asymmetric Top Molecules. Physical Review X, 2020, 10, .	8.9	43
10	Globally Stable Microresonator Turing Pattern Formation for Coherent High-Power THz Radiation On-Chip. Physical Review X, 2017, 7, .	8.9	42
11	BaH molecular spectroscopy with relevance to laser cooling. Physical Review A, 2016, 93, .	2.5	36
12	High-resolution optical spectroscopy with a buffer-gas-cooled beam of BaH molecules. Physical Review A, 2017, 96, .	2.5	36
13	Nonadiabatic Effects in Ultracold Molecules via Anomalous Linear and Quadratic Zeeman Shifts. Physical Review Letters, 2013, 111, 243003.	7.8	33
14	Thermometry via Light Shifts in Optical Lattices. Physical Review Letters, 2015, 114, 023001.	7.8	33
15	High-precision spectroscopy of ultracold molecules in an optical lattice. New Journal of Physics, 2015, 17, 055004.	2.9	31
16	Optical cycling, radiative deflection and laser cooling of barium monohydride ($^{138}\text{Ba}^1\text{H}$). New Journal of Physics, 2020, 22, 083047.	2.9	26
17	Second-Scale Coherence Measured at the Quantum Projection Noise Limit with Hundreds of Molecular Ions. Physical Review Letters, 2020, 124, 053201.	7.8	23
18	CeNTREX: a new search for time-reversal symmetry violation in the ^{205}Tl nucleus. Quantum Science and Technology, 2021, 6, 044007.	5.8	23

#	ARTICLE	IF	CITATIONS
19	Control of Optical Transitions with Magnetic Fields in Weakly Bound Molecules. Physical Review Letters, 2015, 115, 053001.	7.8	22
20	Quantum control of molecules for fundamental physics. Physical Review A, 2022, 105, .	2.5	21
21	Ultracold ⁸⁸ Sr ₂ molecules in the absolute ground state. New Journal of Physics, 2021, 23, 115002.	2.9	16
22	Constraining domain wall dark matter with a network of superconducting gravimeters and LIGO. European Physical Journal D, 2020, 74, 1.	1.3	15
23	Large molasses-like cooling forces for molecules using polychromatic optical fields: A theoretical description. Physical Review Research, 2020, 2, .	3.6	12
24	Feedback and harmonic locking of slot-type optomechanical oscillators to external low-noise reference clocks. Applied Physics Letters, 2013, 102, .	3.3	10
25	Control of Ultracold Photodissociation with Magnetic Fields. Physical Review Letters, 2018, 120, 033201.	7.8	10
26	Assignment of excited-state bond lengths using branching-ratio measurements: The $B\hat{A}^2\Sigma^+$ state of BaH molecules. Physical Review A, 2019, 100, .	2.5	9
27	Transition Strength Measurements to Guide Magic Wavelength Selection in Optically Trapped Molecules. Physical Review Letters, 2020, 125, 153001.	7.8	9
28	Crossover from the Ultracold to the Quasiclassical Regime in State-Selected Photodissociation. Physical Review Letters, 2018, 121, 143401.	7.8	8
29	Direct laser cooling of calcium monohydride molecules. New Journal of Physics, 2022, 24, 083006.	2.9	8
30	Visible optical beats at the hertz level. American Journal of Physics, 2014, 82, 1003-1005.	0.7	5
31	Experimental and theoretical investigation of the crossover from the ultracold to the quasiclassical regime of photodissociation. Physical Review A, 2018, 98, .	2.5	3
32	Ultracold and unreactive fermionic molecules. Science, 2019, 363, 820-820.	12.6	0