

Tanya Zelevinsky

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,203
citations

361413

20
h-index

434195

31
g-index

33
all docs

33
docs citations

33
times ranked

1020
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum control of molecules for fundamental physics. Physical Review A, 2022, 105, .	2.5	21
2	Direct laser cooling of calcium monohydride molecules. New Journal of Physics, 2022, 24, 083006.	2.9	8
3	CeNTREX: a new search for time-reversal symmetry violation in the ²⁰⁵ Tl nucleus. Quantum Science and Technology, 2021, 6, 044007.	5.8	23
4	Ultracold ⁸⁸ Sr ₂ molecules in the absolute ground state. New Journal of Physics, 2021, 23, 115002.	2.9	16
5	Transition Strength Measurements to Guide Magic Wavelength Selection in Optically Trapped Molecules. Physical Review Letters, 2020, 125, 153001.	7.8	9
6	Optical cycling, radiative deflection and laser cooling of barium monohydride (¹³⁸ Ba ¹ H). New Journal of Physics, 2020, 22, 083047.	2.9	26
7	Molecular Asymmetry and Optical Cycling: Laser Cooling Asymmetric Top Molecules. Physical Review X, 2020, 10, .	8.9	43
8	Second-Scale Coherence Measured at the Quantum Projection Noise Limit with Hundreds of Molecular Ions. Physical Review Letters, 2020, 124, 053201.	7.8	23
9	Constraining domain wall dark matter with a network of superconducting gravimeters and LIGO. European Physical Journal D, 2020, 74, 1.	1.3	15
10	Large molasses-like cooling forces for molecules using polychromatic optical fields: A theoretical description. Physical Review Research, 2020, 2, .	3.6	12
11	Molecular lattice clock with long vibrational coherence. Nature Physics, 2019, 15, 1118-1122.	16.7	65
12	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
13	Ultracold and unreactive fermionic molecules. Science, 2019, 363, 820-820.	12.6	0
14	Control of Ultracold Photodissociation with Magnetic Fields. Physical Review Letters, 2018, 120, 033201.	7.8	10
15	Experimental and theoretical investigation of the crossover from the ultracold to the quasiclassical regime of photodissociation. Physical Review A, 2018, 98, .	2.5	3
16	Crossover from the Ultracold to the Quasiclassical Regime in State-Selected Photodissociation. Physical Review Letters, 2018, 121, 143401.	7.8	8
17	Globally Stable Microresonator Turing Pattern Formation for Coherent High-Power THz Radiation On-Chip. Physical Review X, 2017, 7, .	8.9	42
18	High-resolution optical spectroscopy with a buffer-gas-cooled beam of BaH molecules. Physical Review A, 2017, 96, .	2.5	36

#	ARTICLE	IF	CITATIONS
19	Photodissociation of ultracold diatomic strontium molecules with quantum state control. Nature, 2016, 535, 122-126.	27.8	53
20	BaH molecular spectroscopy with relevance to laser cooling. Physical Review A, 2016, 93, .	2.5	36
21	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
22	Control of Optical Transitions with Magnetic Fields in Weakly Bound Molecules. Physical Review Letters, 2015, 115, 053001.	7.8	22
23	Thermometry via Light Shifts in Optical Lattices. Physical Review Letters, 2015, 114, 023001.	7.8	33
24	High-precision spectroscopy of ultracold molecules in an optical lattice. New Journal of Physics, 2015, 17, 055004.	2.9	31
25	Precise study of asymptotic physics with subradiant ultracold molecules. Nature Physics, 2015, 11, 32-36.	16.7	89
26	Visible optical beats at the hertz level. American Journal of Physics, 2014, 82, 1003-1005.	0.7	5
27	Feedback and harmonic locking of slot-type optomechanical oscillators to external low-noise reference clocks. Applied Physics Letters, 2013, 102, .	3.3	10
28	Nonadiabatic Effects in Ultracold Molecules via Anomalous Linear and Quadratic Zeeman Shifts. Physical Review Letters, 2013, 111, 243003.	7.8	33
29	Optical Production of Stable Ultracold Sr_2 Molecules. Physical Review Letters, 2012, .	7.8	75
30	Prospects for application of ultracold Sr_2 molecules in precision measurements. Physical Review A, 2009, 79, .	2.5	45
31	Precision Test of Mass-Ratio Variations with Lattice-Confined Ultracold Molecules. Physical Review Letters, 2008, 100, 043201.	7.8	239
32	Narrow Line Photoassociation in an Optical Lattice. Physical Review Letters, 2006, 96, 203201.	7.8	98