

Theodore A Corcovilos

List of Publications by Year in descending order

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papers

664
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759233

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22
all docs

22
docs citations

22
times ranked

804
citing authors

#	ARTICLE	IF	CITATIONS
1	Extreme Tunability of Interactions in a Li^7 Bose-Einstein Condensate. Physical Review Letters, 2009, 102, 090402.	7.8	218
2	Coherent Addressing of Individual Neutral Atoms in a 3D Optical Lattice. Physical Review Letters, 2015, 115, 043003.	7.8	86
3	Detecting antiferromagnetism of atoms in an optical lattice via optical Bragg scattering. Physical Review A, 2010, 81, .	2.5	85
4	All-optical production of a lithium quantum gas using narrow-line laser cooling. Physical Review A, 2011, 84, .	2.5	78
5	3D Projection Sideband Cooling. Physical Review Letters, 2012, 108, 103001.	7.8	39
6	Synthesis and Hydrolysis of Uranyl, Neptunyl, and Plutonyl Gas-Phase Complexes Exhibiting Discrete Actinide-Carbon Bonds. Organometallics, 2016, 35, 1228-1240.	2.3	30
7	Project SEE (Satellite Energy Exchange): proposal for space-based gravitational measurements. Measurement Science and Technology, 1999, 10, 514-524.	2.6	21
8	Project SEE (Satellite Energy Exchange): an international effort to develop a space-based mission for precise measurements of gravitation. Classical and Quantum Gravity, 2000, 17, 2331-2346.	4.0	18
9	Dissociation of gas-phase, doubly-charged uranyl-acetone complexes by collisional activation and infrared photodissociation. International Journal of Mass Spectrometry, 2016, 396, 22-34.	1.5	15
10	Collision-induced dissociation of uranyl methoxide and uranyl ethoxide cations: Formation of $\text{UO}_2^+ \text{H}^+$ and uranyl alkyl product ions. Rapid Communications in Mass Spectrometry, 2016, 30, 1879-1890.	1.5	14
11	Revealing Disparate Chemistries of Protactinium and Uranium. Synthesis of the Molecular Uranium Tetroxide Anion, UO_4^{4-} . Inorganic Chemistry, 2017, 56, 3686-3694.	4.0	14
12	Two-dimensional optical quasicrystal potentials for ultracold atom experiments. Applied Optics, 2019, 58, 2256.	1.8	14
13	Experimental studies of Bose-Einstein condensates in disorder. Physica D: Nonlinear Phenomena, 2009, 238, 1321-1325.	2.8	6
14	A simple game simulating quantum measurements of qubits. American Journal of Physics, 2018, 86, 510-517.	0.7	6
15	Intrinsic chemistry of $[\text{OUCH}]^+$: reactions with H_2O , CH_3CN , and O_2 . Physical Chemistry Chemical Physics, 2021, 23, 4475-4479.	2.8	6
16	Destruction and reconstruction of UO_2^{2+} using gas-phase reactions. Physical Chemistry Chemical Physics, 2021, 23, 11844-11851.	2.8	4
17	Intrinsic reactivity of $[\text{OUCH}]^+$: Apparent synthesis of $[\text{OUS}]^+$ by reaction with CS_2 . Rapid Communications in Mass Spectrometry, 2022, 36, e9260.	1.5	3
18	Multi-frequency Superconducting Cavity Stabilized Oscillators (SCSO) for Quantum-Gas Measurements and Gravitational Physics. Journal of Low Temperature Physics, 2004, 134, 431-436.	1.4	2

#	ARTICLE	IF	CITATIONS
19	Experimental investigation of the asymmetric spectroscopic characteristics of electron- and hole-doped cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 408-410, 792-793.	1.2	2
20	Creation of [OUF] ⁺ using gas-phase reactions of [UO ₂ (C ₆ F ₅)] ⁺ . <i>International Journal of Mass Spectrometry</i> , 2021, 469, 116664.	1.5	2
21	Measurement of the asymmetric UO ₂ ²⁺ stretching frequency for [UVIO ₂ (F) ₃] ⁻ using IRMPD spectroscopy. <i>International Journal of Mass Spectrometry</i> , 2019, 446, 116231.	1.5	1
22	Isotope labeling and infrared multiple-photon photodissociation investigation of product ions generated by dissociation of [ZnNO ₃ (CH ₃ OH) ₂] ⁺ : Conversion of methanol to formaldehyde. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 58-72.	1.0	0