A Marjatta Lyyra

List of Publications by Year
in descending order

38	594	687363 13	642732 23
papers	citations	h-index	g-index

40	40	40	251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Autler-Townes Splitting in Molecular Lithium: Prospects for All-Optical Alignment of Nonpolar Molecules. Physical Review Letters, 1999, 83, 288-291.	7.8	104
2	Direct excitation studies of the diffuse bands of alkali metal dimers. Journal of Chemical Physics, 1988, 88, 2235-2241.	3.0	37
3	Study of the 4â€‰1Î£+g â€˜â€˜shelfâ€™â€™ state of Na2 by opticalâ€“optical double resonance spectroscopy. Journal of Chemical Physics, 1991, 94, 4756-4764.	3.0	33
4	Determination of the longâ€range potential and dissociation energy of the 1â€‰3Î”gstate of Na2. Journal of Chemical Physics, 1995, 103, 7240-7254.	3.0	30
5	Optical-optical double resonance spectroscopy of theÎ£g+1â€˜â€˜shelfâ€™â€™ states andÎg1states ofNa2using an ultrasensitive ionization detector. Physical Review Letters, 1993, 71, 1152-1155.	7.8	29
6	Bornâ€“Oppenheimer breakdown in a combined-isotopomer analysis of the Aâ€Š1Î£u+â€“Xâ€Š1Î£g+ system of Li2. Journal of Chemical Physics, 2002, 117, 9339-9346.	3.0	29
7	Predissociation of the F(4)â€Š1Î£g+ state of Li2. Journal of Chemical Physics, 2000, 112, 7080-7088.	3.0	28
8	Boundâ€“free 1â€‰3Îâ†’1â€‰3Î£+ emission from the NaK molecule: Determination of the 1â€‰3Î£+ repulsive wall above the dissociation limit. Journal of Chemical Physics, 1990, 92, 5801-5813.	3.0	27
9	Electromagnetically induced transparency and dark fluorescence in a cascade three-level diatomic lithium system. Physical Review A, 2006, 73, .	2.5	26
10	Absolute vibrational numbering and molecular constants of the Na2 23Îg state. Journal of Molecular Spectroscopy, 1989, 134, 119-128.	1.2	25
11	New observation of the , 13Î”g, and 23Îg states and molecular constants with all 6Li2, 7Li2, and 6Li7Li data. Journal of Molecular Spectroscopy, 2007, 246, 180-186.	1.2	20
12	Assignment of the diabatic and adiabatic atomic asymptotic limits of K2 Rydberg states. Journal of Chemical Physics, 1992, 96, 7965-7972.	3.0	17
13	Observation and calculation of the Cs2â€ˆ2Î”1g3 and bÎu3 states. Journal of Chemical Physics, 2008, 128, 204313.	3.0	17
14	Quantum stateâ€selected photodissociation of K2(Bâ€‰1Îuâ†Xâ€‰1Î£+g): A case study of final state alignment in allâ€optical multiple resonance photodissociation. Journal of Chemical Physics, 1995, 102, 2440-2451.	3.0	13
15	Hyperfine structure of the 13Î”g, 2â€Š3Îg, and 33Î£g+ states of 6Li7Li. Journal of Chemical Physics, 2002, 116, 10704-10712.	3.0	13
16	The K239 2Î£g+3 state: Observation and analysis. Journal of Chemical Physics, 2007, 126, 194314.	3.0	13
17	Hyperfine structures of the 2â€Š3Î£g+, 3â€Š3Î£g+, and 4â€Š3Î£g+ states of Na2. Journal of Chemical Physics, 2004, 121, 5821-5827.	3.0	12
18	Re-examination of the Cs2 ground singlet X1Î£g+ and triplet a3Î£u+ states. Journal of Chemical Physics, 2017, 147, 104301.	3.0	12

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19	Experimental study of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msup><mml:mn>6</mml:mn><mml:mn>1</mml:mn></mml:msup><mml:mi mathvariant="normal">Î£</mml:mi><mml:mi>g</mml:mi><mml:mo>+</mml:mo></mml:msubsup></mml:mrow></mml:math> state of the rubidium dimer. Physical Review A, 2019, 99, .	2.5	10
20	State-selected photodissociation of the B1.PI.u state of potassium dimer by all-optical triple resonance spectroscopy. The Journal of Physical Chemistry, 1991, 95, 8040-8044.	2.9	9
21	Electronic transition dipole moment and radiative lifetime calculations of sodium dimer ion-pair states. Journal of Chemical Physics, 2015, 143, 104304.	3.0	9
22	Observations and analysis with the spline-based Rydbergâ€“Kleinâ€“Rees approach for the 31Î£g+ state of Rb2. Journal of Chemical Physics, 2016, 144, 024308.	3.0	9
23	New pair of Î£âˆ¼Î mixed levels in 6Li7Li. Chemical Physics Letters, 2001, 349, 426-430.	2.6	8
24	The Autlerâ€“Townes Effect in Molecules: Observations, Theory, and Applications. Advances in Atomic, Molecular and Optical Physics, 2012, , 467-514.	2.3	8
25	All-optical cw quadruple resonance excitation: A coherently driven five-level molecular system. Physical Review A, 2009, 79, .	2.5	7
26	Improved molecular constants for low vibrational levels of the state of 7Li2. Journal of Molecular Spectroscopy, 2008, 247, 184-186.	1.2	6
27	Measurement of the Na251Î£g+â†'A1Î£u+ and 61Î£g+â†'A1Î£u+ transition dipole moments using optical-optical double resonance and Autlerâ€“Townes spectroscopy. Journal of Chemical Physics, 2017, 147, 204301.	3.0	6
28	The Rb2 31Îg state: Observation and analysis. Journal of Chemical Physics, 2018, 149, 224303.	3.0	6
29	The Na2 2Îg3 state: New observations and hyperfine structure. Journal of Chemical Physics, 2006, 124, 184304.	3.0	5
30	Electronic transition dipole moment and radiative lifetime calculations of lithium dimer ion-pair states. Journal of Molecular Spectroscopy, 2019, 355, 1-7.	1.2	5
31	Final-state alignment from the quantum-state-selected photodissociation ofK2by all-optical triple resonance spectroscopy. Physical Review A, 1994, 49, R1535-R1538.	2.5	4
32	Collisional Line Assignments and Hyperfine Structure Interpretation in Cs2 23Î"1g State. Chinese Journal of Chemical Physics, 2013, 26, 13-19.	1.3	3
33	Metalâ€“metal and metalâ€“hydrogen reactive transition states. Faraday Discussions of the Chemical Society, 1991, 91, 97-110.	2.2	2
34	ALL-OPTICAL TRIPLE RESONANCE: SPECTROSCOPY AND STATE-SELECTED PHOTODISSOCIATION DYNAMICS. Advanced Series in Physical Chemistry, 1995, , 459-490.	1.5	2
35	Rydberg and Doubly Excited States of Na₂ and Li₂. Journal of the Chinese Chemical Society, 2001, 48, 291-299.	1.4	2
36	Frequency domain control of quantum state singlet/triplet character and prospects for an all-optical spin switch. Journal of Modern Optics, 2014, 61, 7-12.	1.3	2

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37	ental study of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si20.gif" overflow="scroll"><mml:mrow><mml:mi>b</mml:mi><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msup><mml:msub><mml:mrow><mml:mi mathvariant="normal">Î</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn><mml:mi>u</mml:mi></mml:mrow></mml:msub> xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si84.gif" overflow="scroll"><mml:mrow><mml:mn>2</mml:mn><mml:msup>. Journal of Molecular Spectrosco	2.2	1
38	Quantum state control using multiple CW lasers. , 2004, , .		1