

A Marjatta Lyyra

List of Publications by Year in descending order

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38
papers

594
citations

777949

13
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721071

23
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40
all docs

40
docs citations

40
times ranked

279
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study of the $31\hat{g}$ state of the rubidium dimer. Physical Review A, 2019, 99, .	1.0	10
2	Electronic transition dipole moment and radiative lifetime calculations of lithium dimer ion-pair states. Journal of Molecular Spectroscopy, 2019, 355, 1-7.	0.4	5
3	The Rb_2 $31\hat{g}$ state: Observation and analysis. Journal of Chemical Physics, 2018, 149, 224303.	1.2	6
4	Experimental study of the $3\hat{g}$ state of the lithium dimer. Journal of Chemical Physics, 2017, 147, 104301.	1.2	10
5	Re-examination of the Cs_2 ground singlet $X1\hat{g}^+$ and triplet $a3\hat{u}^+$ states. Journal of Chemical Physics, 2017, 147, 104301.	1.2	12
6	Measurement of the Na_2 $1\hat{g}^+$ and $1\hat{u}^+$ transition dipole moments using optical-optical double resonance and Autler-Townes spectroscopy. Journal of Chemical Physics, 2017, 147, 204301.	1.2	6
7	Observations and analysis with the spline-based Rydberg-Klein-Rees approach for the $31\hat{g}^+$ state of Rb_2 . Journal of Chemical Physics, 2016, 144, 024308.	1.2	9
8	Electronic transition dipole moment and radiative lifetime calculations of sodium dimer ion-pair states. Journal of Chemical Physics, 2015, 143, 104304.	1.2	9
9	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.	0.6	2
10	Collisional Line Assignments and Hyperfine Structure Interpretation in Cs_2 $23\hat{f}^1g$ State. Chinese Journal of Chemical Physics, 2013, 26, 13-19.	0.6	3
11	The Autler-Townes Effect in Molecules: Observations, Theory, and Applications. Advances in Atomic, Molecular and Optical Physics, 2012, , 467-514.	2.3	8
12	All-optical cw quadruple resonance excitation: A coherently driven five-level molecular system. Physical Review A, 2009, 79, .	1.0	7
13	Improved molecular constants for low vibrational levels of the state of $7Li_2$. Journal of Molecular Spectroscopy, 2008, 247, 184-186.	0.4	6
14	Observation and calculation of the Cs_2 $2\hat{f}^1g_3$ and $b\hat{u}_3$ states. Journal of Chemical Physics, 2008, 128, 204313.	1.2	17
15	The $K239$ $2\hat{f}g_3$ state: Observation and analysis. Journal of Chemical Physics, 2007, 126, 194314.	1.2	13
16	New observation of the $13\hat{f}^1g$, and $23\hat{f}^1g$ states and molecular constants with all $6Li_2$, $7Li_2$, and $6Li_7Li$ data. Journal of Molecular Spectroscopy, 2007, 246, 180-186.	0.4	20
17	Electromagnetically induced transparency and dark fluorescence in a cascade three-level diatomic lithium system. Physical Review A, 2006, 73, .	1.0	26
18	The Na_2 $2\hat{f}g_3$ state: New observations and hyperfine structure. Journal of Chemical Physics, 2006, 124, 184304.	1.2	5

#	ARTICLE	IF	CITATIONS
19	Hyperfine structures of the $2^2S_{1/2}g+$, $3^2S_{1/2}g+$, and $4^2S_{1/2}g+$ states of Na ₂ . Journal of Chemical Physics, 2004, 121, 5821-5827.	1.2	12
20	Quantum state control using multiple CW lasers. , 2004, , .		1
21	Born-Oppenheimer breakdown in a combined-isotopomer analysis of the $A^2\Sigma^+u+$ system of Li ₂ . Journal of Chemical Physics, 2002, 117, 9339-9346.	1.2	29
22	Hyperfine structure of the $1^3\Pi_g$, $2^2S_{1/2}g$, and $3^3\Pi_g+$ states of ⁶ Li ⁷ Li. Journal of Chemical Physics, 2002, 116, 10704-10712.	1.2	13
23	Rydberg and Doubly Excited States of Na ₂ and Li ₂ . Journal of the Chinese Chemical Society, 2001, 48, 291-299.	0.8	2
24	New pair of $1^4\Pi$ mixed levels in ⁶ Li ⁷ Li. Chemical Physics Letters, 2001, 349, 426-430.	1.2	8
25	Predissociation of the $F(4)^2S_{1/2}g+$ state of Li ₂ . Journal of Chemical Physics, 2000, 112, 7080-7088.	1.2	28
26	Autler-Townes Splitting in Molecular Lithium: Prospects for All-Optical Alignment of Nonpolar Molecules. Physical Review Letters, 1999, 83, 288-291.	2.9	104
27	Determination of the long-range potential and dissociation energy of the $1^3\Pi_g$ state of Na ₂ . Journal of Chemical Physics, 1995, 103, 7240-7254.	1.2	30
28	Quantum state-selected photodissociation of K ₂ ($B^2\Sigma^+g$): A case study of final state alignment in all-optical multiple resonance photodissociation. Journal of Chemical Physics, 1995, 102, 2440-2451.	1.2	13
29	ALL-OPTICAL TRIPLE RESONANCE: SPECTROSCOPY AND STATE-SELECTED PHOTODISSOCIATION DYNAMICS. Advanced Series in Physical Chemistry, 1995, , 459-490.	1.5	2
30	Final-state alignment from the quantum-state-selected photodissociation of K ₂ by all-optical triple resonance spectroscopy. Physical Review A, 1994, 49, R1535-R1538.	1.0	4
31	Optical-optical double resonance spectroscopy of the $1^2\Sigma^+g$ and $1^2\Sigma^+g$ states and $1^2\Pi_g$ states of Na ₂ using an ultrasensitive ionization detector. Physical Review Letters, 1993, 71, 1152-1155.	2.9	29
32	Assignment of the diabatic and adiabatic atomic asymptotic limits of K ₂ Rydberg states. Journal of Chemical Physics, 1992, 96, 7965-7972.	1.2	17
33	Study of the $4^2\Sigma^+g$ state of Na ₂ by optical-optical double resonance spectroscopy. Journal of Chemical Physics, 1991, 94, 4756-4764.	1.2	33
34	Metal-metal and metal-hydrogen reactive transition states. Faraday Discussions of the Chemical Society, 1991, 91, 97-110.	2.2	2
35	State-selected photodissociation of the B ¹ Π _u state of potassium dimer by all-optical triple resonance spectroscopy. The Journal of Physical Chemistry, 1991, 95, 8040-8044.	2.9	9
36	Bound-free $1^3\Pi_g$ emission from the NaK molecule: Determination of the $1^3\Pi_g$ repulsive wall above the dissociation limit. Journal of Chemical Physics, 1990, 92, 5801-5813.	1.2	27

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37	Absolute vibrational numbering and molecular constants of the Na ₂ 23 ¹ g state. Journal of Molecular Spectroscopy, 1989, 134, 119-128.	0.4	25
38	Direct excitation studies of the diffuse bands of alkali metal dimers. Journal of Chemical Physics, 1988, 88, 2235-2241.	1.2	37