

John Huennekens

List of Publications by Year in descending order

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28
papers

413
citations

759233

12
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752698

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28
all docs

28
docs citations

28
times ranked

248
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of collisions on the rotational angular momentum of diatomic molecules studied using polarized light. Journal of Chemical Physics, 2020, 153, 184310.	3.0	0
2	Fitting an experimental potential energy curve for the 10(0+) [43 \hat{O}] electronic state of NaCs. Journal of Chemical Physics, 2019, 151, 024307.	3.0	0
3	Experimental studies of the NaCs 12(0+) [71 $\hat{\Sigma}^+$] state: Spin-orbit and non-adiabatic interactions and quantum interference in the 12(0+) [71 $\hat{\Sigma}^+$] and 11(0+) [53 \hat{O}] emission spectra. Journal of Chemical Physics, 2017, 146, 104302.	3.0	4
4	Rotationally inelastic collisions of excited NaK and NaCs molecules with noble gas and alkali atom perturbers. Journal of Chemical Physics, 2017, 147, 144303.	3.0	3
5	Measurement of the Na251 $\hat{\Sigma}g+\hat{\Lambda}^1\hat{\Sigma}u+$ and 61 $\hat{\Sigma}g+\hat{\Lambda}^1\hat{\Sigma}u+$ transition dipole moments using optical-optical double resonance and Autler-Townes spectroscopy. Journal of Chemical Physics, 2017, 147, 204301.	3.0	6
6	Experimental and theoretical studies of the coupled $A^1\Sigma^+$ and $A^1\Pi$ states of NaK. Journal of Chemical Physics, 2017, 147, 204301.	3.0	12
7	Optical control of collisional population flow between molecular electronic states of different spin multiplicity. Physical Review A, 2014, 89, .	2.5	4
8	The Autler-Townes Effect in Molecules: Observations, Theory, and Applications. Advances in Atomic, Molecular and Optical Physics, 2012, , 467-514.	2.3	8
9	Experimental studies of the NaCs 53 \hat{I} and 1(<i>a</i>)3 $\hat{\Sigma}^+$ states. Journal of Chemical Physics, 2012, 136, 114313.	3.0	12
10	Electromagnetically induced transparency in an open V-type molecular system. Physical Review A, 2011, 83, .	2.5	51
11	Global analysis of data on the spin-orbit-coupled $A^1\Sigma^+$ and $A^1\Pi$ states of NaK. Journal of Chemical Physics, 2011, 134, 174301.	2.5	41
12	NaK bound-free and bound-bound $4\ 3\hat{\Sigma}^+a\ 3\hat{\Sigma}^+$ emission. Journal of Molecular Spectroscopy, 2011, 265, 74-80.	1.2	6
13	Quantum Control of the Spin-Orbit Interaction Using the Autler-Townes Effect. Physical Review Letters, 2011, 107, 163601.	7.8	21
14	Collisional transfer of population and orientation in NaK. Journal of Chemical Physics, 2011, 134, 174301.	3.0	14
15	Spectroscopic observations, spin-orbit functions, and coupled-channel deperturbation analysis of data on the $A^1\Sigma^+$ and $A^1\Pi$ states of NaK. Journal of Chemical Physics, 2011, 134, 174301.	2.5	44
16	Measurement of absolute transition dipole moment functions of the $3a\ ^1\Sigma^+(X)\ ^1\Sigma^+$ and $3a\ ^1\Sigma^+(A)\ ^1\Sigma^+$ transitions in NaK using Autler-Townes spectroscopy and calibrated fluorescence. Journal of Chemical Physics, 2008, 129, 154303.	3.0	12
17	Hyperfine state-changing collisions of Cs(6P $1\hat{a}^2$) atoms with argon perturbers. Physical Review A, 2008, 77, .	2.5	2
18	Spin-orbit coupling of the NaK 33 \hat{I} and 31 \hat{I} states: Determination of the coupling constant and observation of quantum interference effects. Journal of Molecular Spectroscopy, 2007, 242, 182-194.	1.2	7

#	ARTICLE	IF	CITATIONS
19	Nonadiabatic coupling in the $3^1\Sigma$ and $4^1\Sigma$ states of NaK. <i>Journal of Chemical Physics</i> , 2006, 125, 154304.	3.0	7
20	The NaK $1^1\Sigma$ states: Theoretical and experimental studies of fine and hyperfine structure of rovibrational levels near the dissociation limit. <i>Journal of Chemical Physics</i> , 2005, 123, 124306.	3.0	12
21	Thermalization of fast cesium $5D_{3/2}$ atoms in collisions with ground-state cesium atoms. <i>Physical Review A</i> , 2005, 71, .	2.5	1
22	Experimental study of the NaK $3^1\Sigma$ double minimum state. <i>Journal of Chemical Physics</i> , 2005, 122, 144313.	3.0	14
23	The $4^1\Sigma^+$ state of NaK: Potential energy curve and hyperfine structure. <i>Journal of Chemical Physics</i> , 2003, 119, 4743-4754.	3.0	19
24	Experimental studies of the NaK $1^1\Sigma^+$ state. <i>Journal of Chemical Physics</i> , 2000, 113, 7384-7397.	3.0	23
25	Rotational Pattern Difference in Resolved Fluorescence Spectra with Different Detection Schemes. <i>Journal of Molecular Spectroscopy</i> , 1999, 196, 197-211.	1.2	11
26	A study of the predissociation of NaK molecules in the $6^1\Sigma^+$ state by optical double resonance spectroscopy. <i>Journal of Chemical Physics</i> , 1997, 107, 1094-1105.	3.0	18
27	Spin-orbit perturbations between the $A(2)1^1\Sigma^+$ and $b(1)3^1\Sigma^+$ states of NaK. <i>Journal of Chemical Physics</i> , 1992, 97, 4714-4722.	3.0	29
28	Wave mixing and amplified spontaneous emission in pure potassium and mixed sodium-potassium vapors. <i>Applied Physics B, Photophysics and Laser Chemistry</i> , 1988, 47, 159-167.	1.5	32