

John Huennekens

List of Publications by Year in descending order

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28
papers

413
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759233
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28
docs citations

28
times ranked

248
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Electromagnetically induced transparency in an open V-type molecular system. Physical Review A, 2011, 83, . Spectroscopic observations, spin-orbit functions, and coupled-channel deperturbation analysis of data on the $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\sum_{\mu=1}^{\infty} \frac{(-1)^{\mu+1}}{\mu} \frac{1}{\mu^2} \int_0^{\infty} \frac{e^{-x/\mu}}{x^2} dx = \frac{\pi^2}{6}$ states. Physical Review A, 2009, 80, . | 2.5 | 51 |
| 2 | Spectroscopic observations, spin-orbit functions, and coupled-channel deperturbation analysis of data on the $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\sum_{\mu=1}^{\infty} \frac{(-1)^{\mu+1}}{\mu} \frac{1}{\mu^2} \int_0^{\infty} \frac{e^{-x/\mu}}{x^2} dx = \frac{\pi^2}{6}$ states. Physical Review A, 2009, 80, . | 2.5 | 44 |
| 3 | Wave mixing and amplified spontaneous emission in pure potassium and mixed sodium-potassium vapors. Applied Physics B, Photophysics and Laser Chemistry, 1988, 47, 159-167. | 1.5 | 32 |
| 4 | Spin-orbit perturbations between the $A(2)1^1\Sigma^+$ and $b(1)3^1\Pi$ states of NaK. Journal of Chemical Physics, 1992, 97, 4714-4722. | 3.0 | 29 |
| 5 | Experimental studies of the NaK $1^1\Sigma^+$ state. Journal of Chemical Physics, 2000, 113, 7384-7397. | 3.0 | 23 |
| 6 | Quantum Control of the Spin-Orbit Interaction Using the Autler-Townes Effect. Physical Review Letters, 2011, 107, 163601. | 7.8 | 21 |
| 7 | The $4^1\Sigma^+$ state of NaK: Potential energy curve and hyperfine structure. Journal of Chemical Physics, 2003, 119, 4743-4754. | 3.0 | 19 |
| 8 | A study of the predissociation of NaK molecules in the $6^1\Sigma^+$ state by optical-optical double resonance spectroscopy. Journal of Chemical Physics, 1997, 107, 1094-1105. | 3.0 | 18 |
| 9 | Experimental study of the NaK $3^1\Sigma^+$ double minimum state. Journal of Chemical Physics, 2005, 122, 144313. | 3.0 | 14 |
| 10 | Collisional transfer of population and orientation in NaK. Journal of Chemical Physics, 2011, 134, 174301. | 3.0 | 14 |
| 11 | The NaK $1^1,3^1$ states: Theoretical and experimental studies of fine and hyperfine structure of rovibrational levels near the dissociation limit. Journal of Chemical Physics, 2005, 123, 124306. | 3.0 | 12 |
| 12 | Measurement of absolute transition dipole moment functions of the $3^1\Sigma^+ \rightarrow 1^1\Pi^+$ and $3^1\Sigma^+ \rightarrow 1^1A^+$ transitions in NaK using Autler-Townes spectroscopy and calibrated fluorescence. Journal of Chemical Physics, 2008, 129, 154303. | 3.0 | 12 |
| 13 | Experimental studies of the NaCs $5^1\Sigma^+$ and $1^1\Sigma^+$ states. Journal of Chemical Physics, 2012, 136, 114313. | 3.0 | 12 |
| 14 | Experimental and theoretical studies of the coupled $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="block">\sum_{\mu=1}^{\infty} \frac{(-1)^{\mu+1}}{\mu} \frac{1}{\mu^2} \int_0^{\infty} \frac{e^{-x/\mu}}{x^2} dx = \frac{\pi^2}{6}$ states. Journal of Chemical Physics, 2012, 136, 114313. | 3.0 | 12 |
| 15 | Rotational Pattern Difference in Resolved Fluorescence Spectra with Different Detection Schemes. Journal of Molecular Spectroscopy, 1999, 196, 197-211. | 1.2 | 11 |
| 16 | The Autler-Townes Effect in Molecules: Observations, Theory, and Applications. Advances in Atomic, Molecular and Optical Physics, 2012, , 467-514. | 2.3 | 8 |
| 17 | Nonadiabatic coupling in the $3^1\Sigma^+$ and $4^1\Sigma^+$ states of NaK. Journal of Chemical Physics, 2006, 125, 154304. | 3.0 | 7 |

| # | ARTICLE | | IF | CITATIONS |
|----|--|--|-----|-----------|
| 19 | Spin-orbit coupling of the NaK $33\hat{\ell}$ and $31\hat{\ell}$ states: Determination of the coupling constant and observation of quantum interference effects. <i>Journal of Molecular Spectroscopy</i> , 2007, 242, 182-194. | | 1.2 | 7 |
| 20 | NaK bound-free and bound-bound 4 $3\hat{\ell}\xi+\hat{\ell}\sigma$ a $3\hat{\ell}\xi+$ emission. <i>Journal of Molecular Spectroscopy</i> , 2011, 265, 74-80. | | 1.2 | 6 |
| 21 | Measurement of the Na $251\hat{\ell}\xi g+\hat{\ell}\sigma$ and $61\hat{\ell}\xi g+\hat{\ell}\sigma$ transition dipole moments using optical-optical double resonance and Autler-Townes spectroscopy. <i>Journal of Chemical Physics</i> , 2017, 147, 204301. | | 3.0 | 6 |
| 22 | Optical control of collisional population flow between molecular electronic states of different spin multiplicity. <i>Physical Review A</i> , 2014, 89, . | | 2.5 | 4 |
| 23 | Experimental studies of the NaCs $12(0+)$ [$71\hat{\ell}\xi+$] state: Spin-orbit and non-adiabatic interactions and quantum interference in the $12(0+)$ [$71\hat{\ell}\xi+$] and $11(0+)$ [$53\hat{\ell}0$] emission spectra. <i>Journal of Chemical Physics</i> , 2017, 146, 104302. | | 3.0 | 4 |
| 24 | Rotationally inelastic collisions of excited NaK and NaCs molecules with noble gas and alkali atom perturbers. <i>Journal of Chemical Physics</i> , 2017, 147, 144303. | | 3.0 | 3 |
| 25 | Hyperfine state-changing collisions of Cs($6P1\hat{\ell}\sigma^2$) atoms with argon perturbers. <i>Physical Review A</i> , 2008, 77, . | | 2.5 | 2 |
| 26 | Thermalization of fast cesium $5D3\hat{\ell}\sigma^2$ atoms in collisions with ground-state cesium atoms. <i>Physical Review A</i> , 2005, 71, . | | 2.5 | 1 |
| 27 | Fitting an experimental potential energy curve for the $10(0+)$ [$43\hat{\ell}0$] electronic state of NaCs. <i>Journal of Chemical Physics</i> , 2019, 151, 024307. | | 3.0 | 0 |
| 28 | The effect of collisions on the rotational angular momentum of diatomic molecules studied using polarized light. <i>Journal of Chemical Physics</i> , 2020, 153, 184310. | | 3.0 | 0 |