# Jason N Byrd

List of Publications by Year
in descending order



| | | 687363 | 794594 |
|---|---|---|---|
| 24 | 355 | 13 | 19 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 24 | 24 | 24 | 392 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A theoretical investigation of the hydrolysis of uranium hexafluoride: the initiation mechanism and vibrational spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 9634-9647. | 2.8 | 4 |
| 2 | Benchmark comparison of dual-basis double-hybrid density functional theory and a neural-network-optimized method for intermolecular interactions. Journal of Molecular Spectroscopy, 2021, 376, 111406. | 1.2 | 5 |
| 3 | Photoassociation of ultracold long-range polyatomic molecules. Physical Review Research, 2021, 3, . | 3.6 | 8 |
| 4 | Advanced concepts in electronic structure (ACES) software programs. Journal of Chemical Physics, 2020, 152, 184105. | 3.0 | 24 |
| 5 | Predictive coupled-cluster isomer orderings for some SinCm (m, n â‰ 12) clusters: A pragmatic comparison between DFT and complete basis limit coupled-cluster benchmarks. Journal of Chemical Physics, 2016, 145, 024312. | 3.0 | 14 |
| 6 | Approximating electronically excited states with equation-of-motion linear coupled-cluster theory. Journal of Chemical Physics, 2015, 143, 164103. | 3.0 | 18 |
| 7 | Molecular cluster perturbation theory. I. Formalism. Molecular Physics, 2015, 113, 3459-3470. | 1.7 | 6 |
| 8 | Abstract Interpretation: Testing at Scale without Testing at Scale. , 2014, , . | | 0 |
| 9 | Correlation correction to configuration interaction singles from coupled cluster perturbation theory. Journal of Chemical Physics, 2014, 140, 234108. | 3.0 | 4 |
| 10 | Tuning Ultracold Chemical Reactions via Rydberg-Dressed Interactions. Physical Review Letters, 2014, 113, 025302. | 7.8 | 16 |
| 11 | At What Chain Length Do Unbranched Alkanes Prefer Folded Conformations?. Journal of Physical Chemistry A, 2014, 118, 1706-1712. | 2.5 | 64 |
| 12 | Associative detachment of rubidium hydroxide. Physical Review A, 2013, 88, . | 2.5 | 7 |
| 13 | Feshbach-optimized photoassociation of ultracold <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow /><mml:mn>6</mml:mn></mml:msup></mml:math>Li<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow /><mml:mn>87</mml:mn></mml:msup></mml:math>Rb molecules with short pulses. Physical Review A, 2013, 88, . | 2.5 | 15 |
| 14 | Structure, energetics, and reactions of alkali tetramers. Journal of Chemical Physics, 2012, 136, 014306. | 3.0 | 16 |
| 15 | Controllable Binding of Polar Molecules and Metastability of One-Dimensional Gases with Attractive Dipole Forces. Physical Review Letters, 2012, 109, 083003. | 7.8 | 14 |
| 16 | Ab initio potential curves for the <mml:math altimg="si62.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.. Chem | 2.6 | 15 |
| 17 | Long-range forces between polar alkali-metal diatoms aligned by external electric fields. Physical Review A, 2012, 86, . | 2.5 | 16 |
| 18 | Long-range three-body atomâ€“diatom potential for doublet Li3. Chemical Physics Letters, 2012, 529, 23-26. | 2.6 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Long-range interactions between like homonuclear alkali metal diatoms. Journal of Chemical Physics, 2011, 135, 244307. | 3.0 | 22 |
| 20 | Ab initio potential curves for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si45.gif" display="inline" overflow="scroll"><mml:mrow><mml:mtext>X</mml:mtext><mml:msup><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup><mml:msubsup><mml:mrow><mml:mi mathvariant="normal">Î£</mml:mi></mml:mrow><mml:mrow><mml:mi>u</mml:mi></mml:mrow><mml:mrow><mml:mo>+</mml:mo> | 2.6 | 18 |
| 21 | display="inline"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msup><mml:msubsup><mml:mrow mathvariant="normal">K</mml:mi><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>Rb, KRb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:mrow /></mml:mrow></mml:math>, and<mml:math | 2.5 | 44 |
| 22 | Long range intermolecular interactions between the alkali diatomics Na2, K2, and NaK. Journal of Chemical Physics, 2010, 132, 244305. | 3.0 | 12 |
| 23 | Potential energy surface of the 1<sup>2</sup>Aâ€² Li<sub>2</sub> + Li doublet ground state. International Journal of Quantum Chemistry, 2009, 109, 3112-3119. | 2.0 | 9 |
| 24 | Electronic structure of the Li2 [X <sup>1</sup>Î£] Li [<sup>2</sup>p] excited <sup>2</sup>Aâ€³ surface. International Journal of Quantum Chemistry, 2009, 109, 3626-3631. | 2.0 | 2 |