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	At What Chain Length Do Unbranched Alkanes Prefer Folded Conformations?. Journal of Physical Chemistry A, 2014, 118, 1706-1712.	2.5	64
2	Structure and thermochemistry of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi 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:math>, and<mml:m	2.5	44
3	Advanced concepts in electronic structure (ACES) software programs. Journal of Chemical Physics, 2020, 152, 184105.	3.0	24
4	Long-range interactions between like homonuclear alkali metal diatoms. Journal of Chemical Physics, 2011, 135, 244307.	3.0	22
5	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:m and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si46. Chemical Physics Lett	2.6	18
6	Approximating electronically excited states with equation-of-motion linear coupled-cluster theory. Journal of Chemical Physics, 2015, 143, 164103.	3.0	18
7	Structure, energetics, and reactions of alkali tetramers. Journal of Chemical Physics, 2012, 136, 014306.	3.0	16
8	Long-range forces between polar alkali-metal diatoms aligned by external electric fields. Physical Review A, 2012, 86, .	2.5	16
9	Tuning Ultracold Chemical Reactions via Rydberg-Dressed Interactions. Physical Review Letters, 2014, 113, 025302.	7.8	16
10	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
11	<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
12	Controllable Binding of Polar Molecules and Metastability of One-Dimensional Gases with Attractive Dipole Forces. Physical Review Letters, 2012, 109, 083003.	7.8	14
13	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
14	Long range intermolecular interactions between the alkali diatomics Na2, K2, and NaK. Journal of Chemical Physics, 2010, 132, 244305.	3.0	12
15	Potential energy surface of the 1²Aâ€² Li₂ + Li doublet ground state. International Journal of Quantum Chemistry, 2009, 109, 3112-3119.	2.0	9
16	Photoassociation of ultracold long-range polyatomic molecules. Physical Review Research, 2021, 3, .	3.6	8
17	Associative detachment of rubidium hydroxide. Physical Review A, 2013, 88, .	2.5	7
18	Molecular cluster perturbation theory. I. Formalism. Molecular Physics, 2015, 113, 3459-3470.	1.7	6

#	Article	IF	Citations
19	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
20	Correlation correction to configuration interaction singles from coupled cluster perturbation theory. Journal of Chemical Physics, 2014, 140, 234108.	3.0	4
21	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
22	Electronic structure of the Li2 [X ¹Î£] Li [²p] excited ²Aâ€³ surface. International Journal of Quantum Chemistry, 2009, 109, 3626-3631.	2.0	2
23	Long-range three-body atomâ€“diatom potential for doublet Li3. Chemical Physics Letters, 2012, 529, 23-26.	2.6	2
24	Abstract Interpretation: Testing at Scale without Testing at Scale. , 2014, , .		0