

# John A Montgomery Jr

## List of Publications by Year in descending order

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33  
papers

21,085  
citations

586496

16  
h-index

466096

32  
g-index

33  
all docs

33  
docs citations

33  
times ranked

17475  
citing authors

#	ARTICLE	IF	CITATIONS
1	Benchmark comparison of dual-basis double-hybrid density functional theory and a neural-network-optimized method for intermolecular interactions. <i>Journal of Molecular Spectroscopy</i> , 2021, 376, 111406.	0.4	5
2	Photoassociation of ultracold long-range polyatomic molecules. <i>Physical Review Research</i> , 2021, 3, .	1.3	8
3	Reaction blockading in a reaction between an excited atom and a charged molecule at low collision energy. <i>Nature Chemistry</i> , 2019, 11, 615-621.	6.6	41
4	Microwave spectroscopy and curious molecular dynamics of ethyl trifluoroacetate. <i>Journal of Molecular Spectroscopy</i> , 2017, 335, 13-16.	0.4	2
5	Synthesis of mixed hypermetallic oxide BaOCa $\rightarrow$ from laser-cooled reagents in an atom-ion hybrid trap. <i>Science</i> , 2017, 357, 1370-1375.	6.0	58
6	Predictive coupled-cluster isomer orderings for some Si $_n$ C $_m$ ( $n < m$ , $n \leq 12$ ) clusters: A pragmatic comparison between DFT and complete basis limit coupled-cluster benchmarks. <i>Journal of Chemical Physics</i> , 2016, 145, 024312.	1.2	14
7	Second moments and rotational spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2016, 325, 42-49.	0.4	48
8	Production of NaCa $^+$ molecular ions in the ground state from cold atom-ion mixtures by photoassociation via an intermediate state. <i>Physical Review A</i> , 2016, 94, .	1.0	20
9	At What Chain Length Do Unbranched Alkanes Prefer Folded Conformations?. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1706-1712.	1.1	64
10	Associative detachment of rubidium hydroxide. <i>Physical Review A</i> , 2013, 88, .	1.0	7
11	Structure, energetics, and reactions of alkali tetramers. <i>Journal of Chemical Physics</i> , 2012, 136, 014306.	1.2	16
12	Controllable Binding of Polar Molecules and Metastability of One-Dimensional Gases with Attractive Dipole Forces. <i>Physical Review Letters</i> , 2012, 109, 083003.	2.9	14
13	A QM/MM approach for the study of monolayer-protected gold clusters. <i>Journal of Materials Science</i> , 2012, 47, 7686-7692.	1.7	12
14	Ab initio potential curves for the $\text{Si}_6$ <small>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..</small>	1.2	15
15	Long-range forces between polar alkali-metal diatoms aligned by external electric fields. <i>Physical Review A</i> , 2012, 86, .	1.0	16
16	Long-range three-body atom-diatom potential for doublet Li $_3$ . <i>Chemical Physics Letters</i> , 2012, 529, 23-26.	1.2	2
17	Long-range interactions between like homonuclear alkali metal diatoms. <i>Journal of Chemical Physics</i> , 2011, 135, 244307.	1.2	22
18	Microwave spectroscopy and conformations of 2-methylbutane and 2,3-dimethylbutane. <i>Journal of Molecular Structure</i> , 2010, 978, 11-13.	1.8	5

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19	Structure and thermochemistry of $X_2$ and $X_2^+$ ( $X = \text{Li, Be, B, C, N, O, F, Ne, Si, P, S, Cl, Ar, Kr, Rb, Xe, Rn}$ ). <i>Journal of Chemical Physics</i> , 2010, 132, 244305.	1.2	18
20	Helical $C_{2v}$ Structure of Perfluoropentane and the $C_{2v}$ Structure of Perfluoropropane. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1118-1122.	1.0	44
21	Rotational Spectrum, Tunneling Motions, and Potential Barriers of Benzyl Alcohol. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6913-6916.	1.1	34
22	Long range intermolecular interactions between the alkali diatomics $Na_2$ , $K_2$ , and $NaK$ . <i>Journal of Chemical Physics</i> , 2010, 132, 244305.	1.2	12
23	Potential energy surface of the $1^2A'$ $Li_2$ + $Li$ doublet ground state. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 3112-3119.	1.0	9
24	Electronic structure of the $Li_2 [X^1\Sigma^+]$ $Li [^2P]$ excited $^3A_1$ surface. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 3626-3631.	1.0	2
25	Unrestricted Coupled Cluster and Brueckner Doubles Variations of W1 Theory. <i>Journal of Chemical Theory and Computation</i> , 2009, 5, 2687-2693.	2.3	232
26	Combining Quantum Mechanics Methods with Molecular Mechanics Methods in ONIOM. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 815-826.	2.3	855
27	A restricted-open-shell complete-basis-set model chemistry. <i>Journal of Chemical Physics</i> , 2006, 125, 094106.	1.2	208
28	On the optimization of Gaussian basis sets. <i>Journal of Chemical Physics</i> , 2003, 118, 1101-1109.	1.2	61
29	An overlap criterion for selection of core orbitals. <i>Theoretical Chemistry Accounts</i> , 2002, 107, 180-186.	0.5	16
30	Transition states for chemical reactions I. Geometry and classical barrier height. <i>Journal of Chemical Physics</i> , 1998, 108, 5704-5713.	1.2	173
31	General atomic and molecular electronic structure system. <i>Journal of Computational Chemistry</i> , 1993, 14, 1347-1363.	1.5	19,020
32	Model of Charge Transfer Collisions between $C_{60}$ and Slow Ions. <i>Journal of Chemical Physics</i> , 0, , .	1.2	0