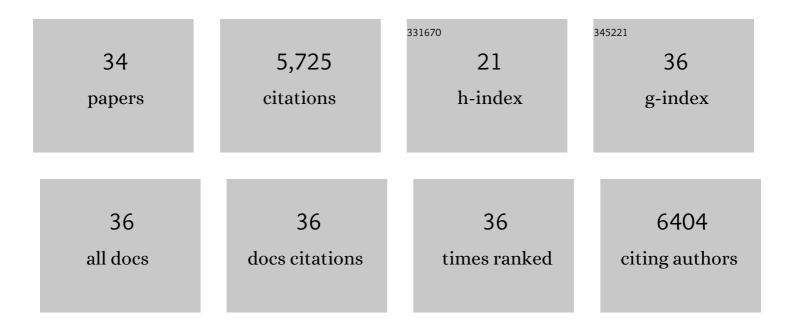
Ryan M Richard

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9209215/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. Molecular Physics, 2015, 113, 184-215. | 1.7 | 2,561 |
| 2 | <scp>Psi4</scp> 1.1: An Open-Source Electronic Structure Program Emphasizing Automation, Advanced Libraries, and Interoperability. Journal of Chemical Theory and Computation, 2017, 13, 3185-3197. | 5.3 | 961 |
| 3 | Software for the frontiers of quantum chemistry: An overview of developments in the Q-Chem 5 package. Journal of Chemical Physics, 2021, 155, 084801. | 3.0 | 518 |
| 4 | NWChem: Past, present, and future. Journal of Chemical Physics, 2020, 152, 184102. | 3.0 | 425 |
| 5 | A generalized many-body expansion and a unified view of fragment-based methods in electronic structure theory. Journal of Chemical Physics, 2012, 137, 064113. | 3.0 | 184 |
| 6 | Time-Dependent Density-Functional Description of the ¹ L _{<i>a</i>} State in Polycyclic Aromatic Hydrocarbons: Charge-Transfer Character in Disguise?. Journal of Chemical Theory and Computation, 2011, 7, 1296-1306. | 5.3 | 164 |
| 7 | Aiming for Benchmark Accuracy with the Many-Body Expansion. Accounts of Chemical Research, 2014, 47, 2828-2836. | 15.6 | 92 |
| 8 | Understanding the many-body expansion for large systems. I. Precision considerations. Journal of Chemical Physics, 2014, 141, 014108. | 3.0 | 77 |
| 9 | Accurate Ionization Potentials and Electron Affinities of Acceptor Molecules I. Reference Data at the CCSD(T) Complete Basis Set Limit. Journal of Chemical Theory and Computation, 2016, 12, 595-604. | 5.3 | 69 |
| 10 | Understanding the many-body expansion for large systems. II. Accuracy considerations. Journal of Chemical Physics, 2016, 144, 164105. | 3.0 | 65 |
| 11 | Many-Body Expansion with Overlapping Fragments: Analysis of Two Approaches. Journal of Chemical Theory and Computation, 2013, 9, 1408-1416. | 5.3 | 57 |
| 12 | Accurate Ionization Potentials and Electron Affinities of Acceptor Molecules IV: Electron-Propagator Methods. Journal of Chemical Theory and Computation, 2016, 12, 627-637. | 5.3 | 56 |
| 13 | Evaluation of Vapor Pressure and Ultra-High Vacuum Tribological Properties of Ionic Liquids. Tribology Transactions, 2011, 54, 911-919. | 2.0 | 48 |
| 14 | Periodic boundary conditions for QM/MM calculations: Ewald summation for extended Gaussian basis sets. Journal of Chemical Physics, 2013, 139, 244108. | 3.0 | 42 |
| 15 | Achieving the CCSD(T) Basis-Set Limit in Sizable Molecular Clusters: Counterpoise Corrections for the Many-Body Expansion. Journal of Physical Chemistry Letters, 2013, 4, 2674-2680. | 4.6 | 40 |
| 16 | From NWChem to NWChemEx: Evolving with the Computational Chemistry Landscape. Chemical Reviews, 2021, 121, 4962-4998. | 47.7 | 39 |
| 17 | Efficient Monomer-Based Quantum Chemistry Methods for Molecular and Ionic Clusters. Annual Reports in Computational Chemistry, 2013, 9, 25-58. | 1.7 | 37 |
| 18 | Tribological Testing and Thermal Analysis of an Alkyl Sulfate Series of Ionic Liquids for Use as Aerospace Lubricants. Tribology Transactions, 2012, 55, 815-821. | 2.0 | 32 |

Ryan M Richard

| # | Article | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Understanding the Many-Body Basis Set Superposition Error: Beyond Boys and Bernardi. Journal of Chemical Theory and Computation, 2018, 14, 2386-2400. | 5.3 | 32 |
| 20 | Optimized geometries, vibrational frequencies, and thermochemical properties of mixed boron- and nitrogen-containing three-membered rings. Computational and Theoretical Chemistry, 2007, 806, 113-120. | 1.5 | 28 |
| 21 | Approaching the complete-basis limit with a truncated many-body expansion. Journal of Chemical Physics, 2013, 139, 224102. | 3.0 | 28 |
| 22 | Ab initio calculations on the thermodynamic properties of spiropentane and its boron-containing derivatives. Computational and Theoretical Chemistry, 2008, 851, 284-293. | 1.5 | 21 |
| 23 | G2, G3, and complete basis set calculations of the thermodynamic properties of boron-containing rings: cyclo-CH2BHNH, 1,2-, and 1,3-cyclo-C2H4BHNH. Computational and Theoretical Chemistry, 2006, 776, 89-96. | 1.5 | 18 |
| 24 | Developing a Computational Chemistry Framework for the Exascale Era. Computing in Science and Engineering, 2019, 21, 48-58. | 1.2 | 16 |
| 25 | Density functional calculations on the thermodynamic properties of a series of nitrosocubanes having the formula C8H8â^'x(NO)x (x=1â^'8). Journal of Hazardous Materials, 2009, 164, 1552-1555. | 12.4 | 15 |
| 26 | B3LYP calculations on the thermodynamic properties of a series of nitroxycubanes having the formula C8H8â^'x(NO3)x (x=1–8). Journal of Hazardous Materials, 2009, 164, 1595-1600. | 12.4 | 15 |
| 27 | Enthalpies of formation of nitrobuckminsterfullerenes: Extrapolation to C60(NO2)60. Computational and Theoretical Chemistry, 2008, 858, 85-87. | 1.5 | 13 |
| 28 | Ab initio calculations on the thermodynamic properties of azaborospiropentanes. Journal of Molecular Modeling, 2008, 14, 871-878. | 1.8 | 11 |
| 29 | G2, G3, and complete basis set calculations of optimized geometries, vibrational frequencies, and thermodynamic properties of azatriboretidine and triazaboretidine. Computational and Theoretical Chemistry, 2007, 806, 165-170. | 1.5 | 9 |
| 30 | G2, G3, and complete basis set calculations on the thermodynamic properties of triazane. Journal of Molecular Modeling, 2008, 14, 29-37. | 1.8 | 9 |
| 31 | G2, G3, and complete basis set calculations of the thermodynamic properties of aminoborane, diaminoborane, and triaminoborane. Computational and Theoretical Chemistry, 2007, 823, 6-15. | 1.5 | 8 |
| 32 | B3LYP, G2, G3, and complete basis set calculations of the thermodynamic properties of small cyclic and chain hydroboranes. Computational and Theoretical Chemistry, 2007, 814, 91-98. | 1.5 | 7 |
| 33 | Ab Initio Calculations on the Thermodynamic Properties of Azaspiropentanes. Journal of Physical Chemistry A, 2008, 112, 2618-2627. | 2.5 | 3 |
| 34 | G2, G3, and complete basis set calculations of the thermodynamic properties of cis- and trans-triazene. Journal of Molecular Modeling, 2008, 14, 21-27. | 1.8 | 2 |