

# Jan H Jensen

## List of Publications by Year in descending order

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127  
papers

35,346  
citations

53939

47  
h-index

23173

116  
g-index

190  
all docs

190  
docs citations

190  
times ranked

32153  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | RegioML: predicting the regioselectivity of electrophilic aromatic substitution reactions using machine learning. , 2022, 1, 108-114.   |     | 6         |
| 2  | A Neural Network Approach for Property Determination of Molecular Solar Cell Candidates. Journal of Physical Chemistry A, 2022, 126, 1681-1688.   | 1.1 | 4         |
| 3  | Substituent Control of If-Interference Effects in the Transmission of Saturated Molecules. ACS Physical Chemistry Au, 2022, 2, 282-288.   | 1.9 | 3         |
| 4  | RegioSQM20: improved prediction of the regioselectivity of electrophilic aromatic substitutions. Journal of Cheminformatics, 2021, 13, 10.  | 2.8 | 10        |
| 5  | Fast and automated identification of reactions with low barriers: the decomposition of 3-hydroperoxypropanal. SciPost Chemistry, 2021, 1, .   | 2.0 | 7         |
| 6  | Virtual screening of norbornadiene-based molecular solar thermal energy storage systems using a genetic algorithm. Journal of Chemical Physics, 2021, 155, 184105.                            | 1.2 | 7         |
| 7  | A graph-based genetic algorithm and generative model/Monte Carlo tree search for the exploration of chemical space. Chemical Science, 2019, 10, 3567-3572.                                    | 3.7 | 161       |
| 8  | Random versus Systematic Errors in Reaction Enthalpies Computed Using Semiempirical and Minimal Basis Set Methods. ACS Omega, 2018, 3, 4372-4377.   | 1.6 | 12        |
| 9  | Fast and accurate prediction of the regioselectivity of electrophilic aromatic substitution reactions. Chemical Science, 2018, 9, 660-665.  | 3.7 | 59        |
| 10 | The Bicyclo[2.2.2]octane Motif: A Class of Saturated Group 14 Quantum Interference Based Single-Molecule Insulators. Journal of Physical Chemistry Letters, 2018, 9, 6941-6947.               | 2.1 | 20        |
| 11 | Improving solvation energy predictions using the SMD solvation method and semiempirical electronic structure methods. Journal of Chemical Physics, 2018, 149, 104102.                         | 1.2 | 39        |
| 12 | Empirical corrections and pair interaction energies in the fragment molecular orbital method. Chemical Physics Letters, 2018, 706, 328-333.   | 1.2 | 14        |
| 13 | Protein structure refinement using a quantum mechanics-based chemical shielding predictor. Chemical Science, 2017, 8, 2061-2072.  | 3.7 | 10        |
| 14 | Intermolecular interactions in the condensed phase: Evaluation of semi-empirical quantum mechanical methods. Journal of Chemical Physics, 2017, 147, 161704.                                  | 1.2 | 9         |
| 15 | Prediction of $pK_a$ Values for Druglike Molecules Using Semiempirical Quantum Chemical Methods. Journal of Physical Chemistry A, 2017, 121, 699-707.   | 1.1 | 41        |
| 16 | Towards a barrier height benchmark set for biologically relevant systems. PeerJ, 2016, 4, e1994.  | 0.9 | 22        |
| 17 | Prediction of $pK_a$ values using the PM6 semiempirical method. PeerJ, 2016, 4, e2335.  | 0.9 | 29        |
| 18 | Predicting accurate absolute binding energies in aqueous solution: thermodynamic considerations for electronic structure methods. Physical Chemistry Chemical Physics, 2015, 17, 12441-12451. | 1.3 | 108       |

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|----|--|-----|-----------|
| 19 | Effect of mutations on the thermostability of <i>Aspergillus aculeatus</i> Î <sup>2</sup> -1,4-galactanase. Computational and Structural Biotechnology Journal, 2015, 13, 256-264.   | 1.9 | 14        |
| 20 | ProCS15: a DFT-based chemical shift predictor for backbone and C<i>Î <sup>2</sup> </i> atoms in proteins. PeerJ, 2015, 3, e1344.   | 0.9 | 13        |
| 21 | Bayesian inference of protein structure from chemical shift data. PeerJ, 2015, 3, e861.  | 0.9 | 11        |
| 22 | A third-generation dispersion and third-generation hydrogen bonding corrected PM6 method: PM6-D3H+. PeerJ, 2014, 2, e449.  | 0.9 | 46        |
| 23 | Indium arsenide nanowire field-effect transistors for pH and biological sensing. Applied Physics Letters, 2014, 104, .   | 1.5 | 22        |
| 24 | Rationalization of the p<i>K</i><sub>a</sub> Values of Alcohols and Thiols Using Atomic Charge Descriptors and Its Application to the Prediction of Amino Acid p<i>K</i><sub>a</sub>â€™s. Journal of Chemical Information and Modeling, 2014, 54, 2200-2213. | 2.5 | 58        |
| 25 | Hybrid RHF/MP2 Geometry Optimizations with the Effective Fragment Molecular Orbital Method. PLoS ONE, 2014, 9, e88800.   | 1.1 | 11        |
| 26 | In Silico Prediction of Mutant HIV-1 Proteases Cleaving a Target Sequence. PLoS ONE, 2014, 9, e95833.  | 1.1 | 12        |
| 27 | FragBuilder: an efficient Python library to setup quantum chemistry calculations on peptides models. PeerJ, 2014, 2, e277.   | 0.9 | 6         |
| 28 | The Molecule Calculator: A Web Application for Fast Quantum Mechanics-Based Estimation of Molecular Properties. Journal of Chemical Education, 2013, 90, 1093-1095.  | 1.1 | 36        |
| 29 | Effects of buffer composition and dilution on nanowire field-effect biosensors. Nanotechnology, 2013, 24, 035501.  | 1.3 | 41        |
| 30 | PHAISTOS: A framework for Markov chain Monte Carlo simulation and inference of protein structure. Journal of Computational Chemistry, 2013, 34, 1697-1705.   | 1.5 | 35        |
| 31 | Fully Integrated Effective Fragment Molecular Orbital Method. Journal of Chemical Theory and Computation, 2013, 9, 2235-2249.  | 2.3 | 56        |
| 32 | <i>In silico</i> screening of 393 mutants facilitates enzyme engineering of amidase activity in CalB. PeerJ, 2013, 1, e145.  | 0.9 | 7         |
| 33 | Mapping Enzymatic Catalysis Using the Effective Fragment Molecular Orbital Method: Towards all ab initio Biochemistry. PLoS ONE, 2013, 8, e60602.  | 1.1 | 33        |
| 34 | Interface of the Polarizable Continuum Model of Solvation with Semi-Empirical Methods in the GAMESS Program. PLoS ONE, 2013, 8, e67725.  | 1.1 | 13        |
| 35 | Protein Structure Validation and Refinement Using Amide Proton Chemical Shifts Derived from Quantum Mechanics. PLoS ONE, 2013, 8, e84123.  | 1.1 | 21        |
| 36 | A computational method for the systematic screening of reaction barriers in enzymes: searching for<i> Bacillus circulans</i>xylanase mutants with greater activity towards a synthetic substrate. PeerJ, 2013, 1, e111.                                      | 0.9 | 7         |

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|----|--|-----|-----------|
| 37 | Predicting pK <sub>a</sub> for proteins using COSMO-RS. PeerJ, 2013, 1, e198.  | 0.9 | 14        |
| 38 | BioFET-SIM: A Tool for the Analysis and Prediction of Signal Changes in Nanowire-Based Field Effect Transistor Biosensors. Lecture Notes in Nanoscale Science and Technology, 2013, , 55-86. | 0.4 | 0         |
| 39 | BioFET-SIM Web Interface: Implementation and Two Applications. PLoS ONE, 2012, 7, e45379.  | 1.1 | 10        |
| 40 | The Effective Fragment Molecular Orbital Method for Fragments Connected by Covalent Bonds. PLoS ONE, 2012, 7, e41117.  | 1.1 | 28        |
| 41 | FragIt: A Tool to Prepare Input Files for Fragment Based Quantum Chemical Calculations. PLoS ONE, 2012, 7, e44480.   | 1.1 | 39        |
| 42 | A Computational Methodology to Screen Activities of Enzyme Variants. PLoS ONE, 2012, 7, e49849.  | 1.1 | 15        |
| 43 | Definitive Benchmark Study of Ring Current Effects on Amide Proton Chemical Shifts. Journal of Chemical Theory and Computation, 2011, 7, 2078-2084.  | 2.3 | 16        |
| 44 | PROPKA3: Consistent Treatment of Internal and Surface Residues in Empirical pK <sub>a</sub> Predictions. Journal of Chemical Theory and Computation, 2011, 7, 525-537.                       | 2.3 | 3,121     |
| 45 | Predicting and rationalizing the effect of surface charge distribution and orientation on nano-wire based FET bio-sensors. Nanoscale, 2011, 3, 3635.   | 2.8 | 35        |
| 46 | Improved Treatment of Ligands and Coupling Effects in Empirical Calculation and Rationalization of pK <sub>a</sub> Values. Journal of Chemical Theory and Computation, 2011, 7, 2284-2295.   | 2.3 | 1,436     |
| 47 | Quantifying signal changes in nano-wire based biosensors. Nanoscale, 2011, 3, 706-717.   | 2.8 | 37        |
| 48 | Graphical analysis of pH-dependent properties of proteins predicted using PROPKA. BMC Structural Biology, 2011, 11, 6.   | 2.3 | 328       |
| 49 | Energy gradients in combined fragment molecular orbital and polarizable continuum model (FMO/PCM) calculation. Journal of Computational Chemistry, 2010, 31, 778-790.                        | 1.5 | 37        |
| 50 | Exchange repulsion between effective fragment potentials and ab initio molecules. Theoretical Chemistry Accounts, 2010, 125, 481-491.  | 0.5 | 26        |
| 51 | Effective Fragment Molecular Orbital Method: A Merger of the Effective Fragment Potential and Fragment Molecular Orbital Methods. Journal of Physical Chemistry A, 2010, 114, 8705-8712.     | 1.1 | 80        |
| 52 | Analytic gradient for the adaptive frozen orbital bond detachment in the fragment molecular orbital method. Chemical Physics Letters, 2009, 477, 169-175.                                    | 1.2 | 53        |
| 53 | Short strong hydrogen bonds in proteins: a case study of rhamnogalacturonan acetyltransferase. Acta Crystallographica Section D: Biological Crystallography, 2008, 64, 851-863.              | 2.5 | 46        |
| 54 | Protein-protein binding is often associated with changes in protonation state. Proteins: Structure, Function and Bioinformatics, 2008, 71, 81-91.  | 1.5 | 38        |

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|----|--|-----|-----------|
| 55 | Very fast prediction and rationalization of $pK_a$ values for protein-ligand complexes. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 73, 765-783.   | 1.5 | 938       |
| 56 | Covalent Bond Fragmentation Suitable To Describe Solids in the Fragment Molecular Orbital Method. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11808-11816.   | 1.1 | 76        |
| 57 | Application driven software for chemistry. , 2008, , .   |     | 2         |
| 58 | Rationalization of the Difference in Lifetime of Two Covalent Sialosyl-Enzyme Intermediates of <i>Trypanosoma rangeli</i> Sialidase. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14093-14095.  | 1.2 | 0         |
| 59 | Role of the virtual orbitals and HOMO-LUMO gap in mean-field approximations to the conductance of molecular junctions. <i>Physical Review B</i> , 2008, 77, .  | 1.1 | 20        |
| 60 | Calculating pH and Salt Dependence of Protein-Protein Binding. <i>Current Pharmaceutical Biotechnology</i> , 2008, 9, 96-102.  | 0.9 | 35        |
| 61 | Sugar Folding: A Novel Structural Prediction Tool for Oligosaccharides and Polysaccharides 1. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 1620-1628.  | 2.3 | 17        |
| 62 | Sugar Folding: A Novel Structural Prediction Tool for Oligosaccharides and Polysaccharides 2. <i>Journal of Chemical Theory and Computation</i> , 2007, 3, 1629-1643.  | 2.3 | 30        |
| 63 | FTIR spectroscopy combined with quantum chemical calculations to investigate adsorbed nitrate on aluminium oxide surfaces in the presence and absence of co-adsorbed water. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4970.  | 1.3 | 119       |
| 64 | Chapter 10 The Effective Fragment Potential: A General Method for Predicting Intermolecular Interactions. <i>Annual Reports in Computational Chemistry</i> , 2007, 3, 177-193.   | 0.9 | 193       |
| 65 | PDB2PQR: expanding and upgrading automated preparation of biomolecular structures for molecular simulations. <i>Nucleic Acids Research</i> , 2007, 35, W522-W525.  | 6.5 | 1,659     |
| 66 | Prediction and Rationalization of the pH Dependence of the Activity and Stability of Family 11 Xylanases. <i>Biochemistry</i> , 2007, 46, 13581-13592.   | 1.2 | 24        |
| 67 | Surface Reactions of Carbon Dioxide at the Adsorbed Water-Oxide Interface. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14870-14880.  | 1.5 | 69        |
| 68 | FTIR Spectroscopy Combined with Isotope Labeling and Quantum Chemical Calculations to Investigate Adsorbed Bicarbonate Formation Following Reaction of Carbon Dioxide with Surface Hydroxyl Groups on Fe <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry B</i> , 2006, 110, 12005-12016. | 1.2 | 170       |
| 69 | Charge transfer interaction in the effective fragment potential method. <i>Journal of Chemical Physics</i> , 2006, 124, 214108.  | 1.2 | 74        |
| 70 | Exploring the Role of the Active Site Cysteine in Human Muscle Creatine Kinase. <i>Biochemistry</i> , 2006, 45, 11464-11472.   | 1.2 | 21        |
| 71 | Hydride Transfer versus Hydrogen Radical Transfer in Thymidylate Synthase. <i>Journal of the American Chemical Society</i> , 2006, 128, 5636-5637.   | 6.6 | 35        |
| 72 | Cooperative Hydrogen Bonding Effects Are Key Determinants of Backbone Amide Proton Chemical Shifts in Proteins. <i>Journal of the American Chemical Society</i> , 2006, 128, 9863-9872.  | 6.6 | 69        |

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|----|--|-----|-----------|
| 73 | Hydrogen bonding is the prime determinant of carboxyl pKa values at the N-termini of $\alpha$ -helices. <i>Proteins: Structure, Function and Bioinformatics</i> , 2006, 63, 621-635.   | 1.5 | 21        |
| 74 | Molecular quantum mechanics to biodynamics: Essential connections. <i>Computational and Theoretical Chemistry</i> , 2006, 764, 1-8.  | 1.5 | 9         |
| 75 | Chemically accurate protein structures: Validation of protein NMR structures by comparison of measured and predicted pK a values. <i>Journal of Biomolecular NMR</i> , 2006, 35, 39-51.  | 1.6 | 16        |
| 76 | The polarizable continuum model (PCM) interfaced with the fragment molecular orbital method (FMO). <i>Journal of Computational Chemistry</i> , 2006, 27, 976-985.  | 1.5 | 161       |
| 77 | Regiochemical Control by Remote Substituents - A Selective Synthesis of Angularly Fused Ring Systems. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 3040-3044.  | 1.2 | 3         |
| 78 | Regiochemical Control by Remote Substituents " A Selective Synthesis of Angularly Fused Ring Systems.. <i>ChemInform</i> , 2005, 36, no.   | 0.1 | 0         |
| 79 | Very fast empirical prediction and rationalization of protein pKa values. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 704-721.   | 1.5 | 1,771     |
| 80 | Prediction and Rationalization of Protein pKa Values Using QM and QM/MM Methods. <i>Journal of Physical Chemistry A</i> , 2005, 109, 6634-6643.  | 1.1 | 131       |
| 81 | Determinants of cysteine pKa values in creatine kinase and $\alpha$ 1-antitrypsin. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 57, 799-803.  | 1.5 | 40        |
| 82 | The determinants of carboxyl pKa values in turkey ovomucoid third domain. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 55, 689-704.   | 1.5 | 84        |
| 83 | Improving the efficiency and convergence of geometry optimization with the polarizable continuum model: New energy gradients and molecular surface tessellation. <i>Journal of Computational Chemistry</i> , 2004, 25, 1449-1462.                                      | 1.5 | 144       |
| 84 | Determinants of the Relative Reduction Potentials of Type-1 Copper Sites in Proteins. <i>Journal of the American Chemical Society</i> , 2004, 126, 8010-8019.  | 6.6 | 134       |
| 85 | NMR chemical shifts in the low-pH form of $\alpha$ -chymotrypsin. A QM/MM and ONIOM-NMR study. <i>Theoretical Chemistry Accounts</i> , 2003, 109, 100-107.   | 0.5 | 32        |
| 86 | Continuum solvation of large molecules described by QM/MM: a semi-iterative implementation of the PCM/EFP interface. <i>Theoretical Chemistry Accounts</i> , 2003, 109, 71-84.   | 0.5 | 91        |
| 87 | Intraprotein electrostatics derived from first principles: Divide-and-conquer approaches for QM/MM calculations. <i>Journal of Computational Chemistry</i> , 2003, 24, 1971-1979.  | 1.5 | 11        |
| 88 | A Predictive Model of Strong Hydrogen Bonding in Proteins: The N <sup>1</sup> l <sup>1</sup> H <sup>1</sup> O <sup>1</sup> Hydrogen Bond in Low-pH $\alpha$ -Chymotrypsin and $\alpha$ -Lytic Protease. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6226-6233. | 1.2 | 37        |
| 89 | A Planar Tetracoordinate Carbon and Unusual Bonding in an Organodimetallic Propynylidene Complex Arising from Double C <sup>1</sup> H Activation of an Allene Ligand. <i>Journal of the American Chemical Society</i> , 2003, 125, 1688-1689.                          | 6.6 | 29        |
| 90 | Boundary Conditions for the Swain <sup>1</sup> Schaad Relationship as a Criterion for Hydrogen Tunneling. <i>Journal of the American Chemical Society</i> , 2002, 124, 3858-3864.  | 6.6 | 56        |

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| 91  | The Prediction of Protein pKa's Using QM/MM: The pKa of Lysine 55 in Turkey Ovomuroid Third Domain. Journal of Physical Chemistry B, 2002, 106, 3486-3494.  | 1.2 | 90        |
| 92  | Partial Hessian vibrational analysis: the localization of the molecular vibrational energy and entropy. Theoretical Chemistry Accounts, 2002, 107, 211-219.   | 0.5 | 109       |
| 93  | The Effective Fragment Potential Method: A QM-Based MM Approach to Modeling Environmental Effects in Chemistry. Journal of Physical Chemistry A, 2001, 105, 293-307.  | 1.1 | 570       |
| 94  | Accurate Intraprotein Electrostatics Derived from First Principles: An Effective Fragment Potential Method Study of the Proton Affinities of Lysine 55 and Tyrosine 20 in Turkey Ovomuroid Third Domain. Journal of Physical Chemistry A, 2001, 105, 3829-3837. | 1.1 | 45        |
| 95  | Regiochemical Control by Remote Substituents. A Direct Synthesis of Tetrangulol. Synlett, 2001, 2001, 0521-0522.  | 1.0 | 13        |
| 96  | Intermolecular exchange-induction and charge transfer: Derivation of approximate formulas using nonorthogonal localized molecular orbitals. Journal of Chemical Physics, 2001, 114, 8775-8783.  | 1.2 | 41        |
| 97  | Toward a general theory of hydrogen bonding: A study of hydrogen bonds involving H <sub>2</sub> O and HF. International Journal of Quantum Chemistry, 2000, 76, 341-358.  | 1.0 | 7         |
| 98  | Perspective on "The physical nature of the chemical bond". Theoretical Chemistry Accounts, 2000, 103, 248-251.  | 0.5 | 14        |
| 99  | Evaluation of charge penetration between distributed multipolar expansions. Journal of Chemical Physics, 2000, 112, 7300-7306.  | 1.2 | 149       |
| 100 | Toward a General Theory of Hydrogen Bonding: The Short, Strong Hydrogen Bond [HOH...OH]-. Journal of Physical Chemistry A, 2000, 104, 9266-9275.  | 1.1 | 81        |
| 101 | QM/MM Boundaries Across Covalent Bonds: A Frozen Localized Molecular Orbital-Based Approach for the Effective Fragment Potential Method. Journal of Physical Chemistry A, 2000, 104, 6656-6665.   | 1.1 | 136       |
| 102 | Perspective on "The physical nature of the chemical bond", 2000, , 248-251.   |     | 1         |
| 103 | Evaluation of the charge penetration energy between non-orthogonal molecular orbitals using the Spherical Gaussian Overlap approximation. Chemical Physics Letters, 1999, 315, 140-144.   | 1.2 | 61        |
| 104 | 1,3-Transposition of Allylic Alcohols Catalyzed by Methyltrioxorhenium. Organometallics, 1998, 17, 1835-1840.   | 1.1 | 71        |
| 105 | An approximate formula for the intermolecular Pauli repulsion between closed shell molecules. II. Application to the effective fragment potential method. Journal of Chemical Physics, 1998, 108, 4772-4782.  | 1.2 | 105       |
| 106 | Modeling intermolecular exchange integrals between nonorthogonal molecular orbitals. Journal of Chemical Physics, 1996, 104, 7795-7796.   | 1.2 | 39        |
| 107 | Understanding the Hydrogen Bond Using Quantum Chemistry. Accounts of Chemical Research, 1996, 29, 536-543.  | 7.6 | 188       |
| 108 | An effective fragment method for modeling solvent effects in quantum mechanical calculations. Journal of Chemical Physics, 1996, 105, 1968-1986.  | 1.2 | 578       |

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|-----|--|-----|-----------|
| 109 | An approximate formula for the intermolecular Pauli repulsion between closed shell molecules. <i>Molecular Physics</i> , 1996, 89, 1313-1325.  | 0.8 | 110       |
| 110 | Applications of Parallel GAMESS. <i>ACS Symposium Series</i> , 1995, , 29-46.  | 0.5 | 2         |
| 111 | Ab Initio Localized Charge Distributions: Theory and a Detailed Analysis of the Water Dimer-Hydrogen Bond. <i>The Journal of Physical Chemistry</i> , 1995, 99, 8091-8107.   | 2.9 | 30        |
| 112 | Direct Total Syntheses of Frenolicin B and Kalafungin via Highly Regioselective Diels-Alder Reactions. <i>Journal of Organic Chemistry</i> , 1995, 60, 1154-1159.  | 1.7 | 51        |
| 113 | On the Number of Water Molecules Necessary To Stabilize the Glycine Zwitterion. <i>Journal of the American Chemical Society</i> , 1995, 117, 8159-8170.  | 6.6 | 419       |
| 114 | Pathways for H <sub>2</sub> elimination from ethylene: A theoretical study. <i>Journal of Chemical Physics</i> , 1994, 100, 1981-1987.   | 1.2 | 53        |
| 115 | Effective Fragment Method for Modeling Intermolecular Hydrogen-Bonding Effects on Quantum Mechanical Calculations. <i>ACS Symposium Series</i> , 1994, , 139-151.  | 0.5 | 47        |
| 116 | Regiocontrol by Remote Substituents. A Direct Total Synthesis of Racemic Hongconin. <i>Journal of Organic Chemistry</i> , 1994, 59, 2219-2222.   | 1.7 | 31        |
| 117 | General atomic and molecular electronic structure system. <i>Journal of Computational Chemistry</i> , 1993, 14, 1347-1363.   | 1.5 | 19,020    |
| 118 | Regiocontrol by remote substituents. An enantioselective total synthesis of frenolicin B via a highly regioselective Diels-Alder reaction. <i>Journal of the American Chemical Society</i> , 1993, 115, 5859-5860. | 6.6 | 68        |
| 119 | Uncatalyzed peptide bond formation in the gas phase. <i>The Journal of Physical Chemistry</i> , 1992, 96, 8340-8351.   | 2.9 | 90        |
| 120 | Nature of the silicon-nitrogen bond in silatranes. <i>Organometallics</i> , 1991, 10, 2657-2660.   | 1.1 | 70        |
| 121 | Conformational potential energy surface of glycine: a theoretical study. <i>Journal of the American Chemical Society</i> , 1991, 113, 7917-7924.   | 6.6 | 238       |
| 122 | Splicing I: Using mixed basis sets in ab initio calculations. <i>Journal of Computational Chemistry</i> , 1991, 12, 421-426.   | 1.5 | 12        |
| 123 | High throughput virtual screening of 230 billion molecular solar heat battery candidates. <i>PeerJ Physical Chemistry</i> , 0, 3, e16.   | 0.0 | 15        |
| 124 | Using a genetic algorithm to find molecules with good docking scores. <i>PeerJ Physical Chemistry</i> , 0, 3, e18.   | 0.0 | 13        |
| 125 | Chemical space exploration: how genetic algorithms find the needle in the haystack. <i>PeerJ Physical Chemistry</i> , 0, 2, e11.   | 0.0 | 25        |
| 126 | Fast and automatic estimation of transition state structures using tight binding quantum chemical calculations. <i>PeerJ Physical Chemistry</i> , 0, 2, e15.   | 0.0 | 15        |



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|-----|--|-----|-----------|
| 127 | Fast and automated identification of reactions with low barriers using meta-MD simulations. PeerJ Physical Chemistry, 0, 4, e22. | 0.0 | 5         |