

# Tucker Carrington

## List of Publications by Year in descending order

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232  
papers

11,081  
citations

24978

57  
h-index

38300

95  
g-index

245  
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245  
docs citations

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times ranked

3189  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Computational study of the rovibrational spectrum of H <sub>2</sub> O-HF. Journal of Molecular Spectroscopy, 2022, 384, 111587.  | 0.4  | 6         |
| 2  | Roadmap on Machine learning in electronic structure. Electronic Structure, 2022, 4, 023004.  | 1.0  | 69        |
| 3  | Neural Network Potential Energy Surfaces for Small Molecules and Reactions. Chemical Reviews, 2021, 121, 10187-10217.  | 23.0 | 163       |
| 4  | Using collocation to study the vibrational dynamics of molecules. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 248, 119158.  | 2.0  | 10        |
| 5  | Using nondirect product Wigner $D$ basis functions and the symmetry-adapted Lanczos algorithm to compute the ro-vibrational spectrum of CH <sub>4</sub> -H <sub>2</sub> O. Journal of Chemical Physics, 2021, 154, 124112.                 | 1.2  | 7         |
| 6  | A rectangular collocation multi-configuration time-dependent Hartree (MCTDH) approach with time-independent points for calculations on general potential energy surfaces. Journal of Chemical Physics, 2021, 154, 114107.                  | 1.2  | 10        |
| 7  | Using collocation and solutions for a sum-of-product potential to compute vibrational energy levels for general potentials. Chemical Physics Letters, 2021, 781, 138967.   | 1.2  | 3         |
| 8  | Computing vibrational energy levels by solving linear equations using a tensor method with an imposed rank. Journal of Chemical Physics, 2021, 155, 234105.  | 1.2  | 4         |
| 9  | Efficiently Transforming from Values of a Function on a Sparse Grid to Basis Coefficients. Lecture Notes in Computational Science and Engineering, 2021, , 229-244.  | 0.1  | 3         |
| 10 | Computational study of the rovibrational spectrum of CO <sub>2</sub> -N <sub>2</sub> . Physical Chemistry Chemical Physics, 2020, 22, 22674-22683.   | 1.3  | 12        |
| 11 | A variational calculation of vibrational levels of vinyl radical. Journal of Chemical Physics, 2020, 152, 204311.  | 1.2  | 6         |
| 12 | A collocation-based multi-configuration time-dependent Hartree method using mode combination and improved relaxation. Journal of Chemical Physics, 2020, 152, 164117.  | 1.2  | 10        |
| 13 | Machine Learning Optimization of the Collocation Point Set for Solving the Kohn-Sham Equation. Journal of Physical Chemistry A, 2019, 123, 10631-10642.  | 1.1  | 12        |
| 14 | Computational Study of the Rovibrational Spectra of CH <sub>2</sub> D <sup>+</sup> and CHD <sub>2</sub> <sup>+</sup> . Journal of Physical Chemistry A, 2019, 123, 10281-10289.  | 1.1  | 5         |
| 15 | Using quadrature and an iterative eigensolver to compute fine-structure ro-vibrational levels of Van der Waals complexes: NH <sub>3</sub> -He, O <sub>2</sub> -Ar, and O <sub>2</sub> -He. Journal of Chemical Physics, 2019, 151, 054101. |      | 2         |
| 16 | Computational study of the ro-vibrational spectrum of CO-CO <sub>2</sub> . Journal of Chemical Physics, 2019, 151, 084307.   | 1.2  | 19        |
| 17 | Using collocation and a hierarchical basis to solve the vibrational Schrödinger equation. Journal of Chemical Physics, 2019, 150, 204108.  | 1.2  | 8         |
| 18 | A pruned collocation-based multiconfiguration time-dependent Hartree approach using a Smolyak grid for solving the Schrödinger equation with a general potential energy surface. Journal of Chemical Physics, 2019, 150, 154108.           | 1.2  | 21        |

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|----|---|-----|-----------|
| 19 | A Comparison of Methods for Determining the Time Step When Propagating with the Lanczos Algorithm. <i>Mathematics</i> , 2019, 7, 1109.  | 1.1 | 1         |
| 20 | Computing vibration-rotation-tunnelling levels of HOD dimer. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3527-3536.  | 1.3 | 2         |
| 21 | Using monomer vibrational wavefunctions to compute numerically exact (12D) rovibrational levels of water dimer. <i>Journal of Chemical Physics</i> , 2018, 148, 074108.   | 1.2 | 51        |
| 22 | Computing energy levels of CH <sub>4</sub> , CHD <sub>3</sub> , CH <sub>3</sub> D, and CH <sub>3</sub> F with a direct product basis and coordinates based on the methyl subsystem. <i>Journal of Chemical Physics</i> , 2018, 148, 074113. | 1.2 | 7         |
| 23 | Vibrational spectra of halide-water dimers: Insights on ion hydration from full-dimensional quantum calculations on many-body potential energy surfaces. <i>Journal of Chemical Physics</i> , 2018, 148, 102321.                            | 1.2 | 40        |
| 24 | Ab initio study of the CO-N <sub>2</sub> complex: a new highly accurate intermolecular potential energy surface and rovibrational spectrum. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12624-12636.                             | 1.3 | 14        |
| 25 | The He <sub>2</sub> -OCS complex: Comparison between theory and experiment. <i>Chemical Physics Letters</i> , 2018, 694, 35-39.   | 1.2 | 0         |
| 26 | A new collocation-based multi-configuration time-dependent Hartree (MCTDH) approach for solving the Schrödinger equation with a general potential energy surface. <i>Journal of Chemical Physics</i> , 2018, 148, 044115.                   | 1.2 | 23        |
| 27 | A multimode-like scheme for selecting the centers of Gaussian basis functions when computing vibrational spectra. <i>Chemical Physics</i> , 2018, 509, 139-144.   | 0.9 | 25        |
| 28 | Neural networks vs Gaussian process regression for representing potential energy surfaces: A comparative study of fit quality and vibrational spectrum accuracy. <i>Journal of Chemical Physics</i> , 2018, 148, 241702.                    | 1.2 | 157       |
| 29 | Iterative Methods for Computing Vibrational Spectra. <i>Mathematics</i> , 2018, 6, 13.  | 1.1 | 3         |
| 30 | Using rectangular collocation with finite difference derivatives to solve electronic Schrödinger equation. <i>Journal of Chemical Physics</i> , 2018, 149, 204105.  | 1.2 | 11        |
| 31 | Redundant coordinates in quantum mechanics. <i>Chemical Physics</i> , 2018, 515, 336-341.   | 0.9 | 0         |
| 32 | Infrared spectrum and intermolecular potential energy surface of the CO <sub>2</sub> dimer. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14431-14440.   | 1.3 | 13        |
| 33 | Using an iterative eigensolver and intertwined rank reduction to compute vibrational spectra of molecules with more than a dozen atoms: Uracil and naphthalene. <i>Journal of Chemical Physics</i> , 2018, 149, 064108.                     | 1.2 | 28        |
| 34 | Comparing Nested Sequences of Leja and PseudoGauss Points to Interpolate in 1D and Solve the Schroedinger Equation in 9D. <i>Lecture Notes in Computational Science and Engineering</i> , 2018, , 1-17.                                     | 0.1 | 3         |
| 35 | Comparison of different eigensolvers for calculating vibrational spectra using low-rank, sum-of-product basis functions. <i>Molecular Physics</i> , 2017, 115, 1740-1749.   | 0.8 | 10        |
| 36 | An intertwined method for making low-rank, sum-of-product basis functions that makes it possible to compute vibrational spectra of molecules with more than 10 atoms. <i>Journal of Chemical Physics</i> , 2017, 146, 204110.               | 1.2 | 26        |

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|----|--|-----|-----------|
| 37 | Perspective: Computing (ro-)vibrational spectra of molecules with more than four atoms. Journal of Chemical Physics, 2017, 146, 120902.  | 1.2 | 83        |
| 38 | Using monomer vibrational wavefunctions as contracted basis functions to compute rovibrational levels of an H <sub>2</sub> O-atom complex in full dimensionality. Journal of Chemical Physics, 2017, 146, 104105.          | 1.2 | 28        |
| 39 | Applying a Smolyak collocation method to Cl <sub>2</sub> CO. Molecular Physics, 2017, 115, 1775-1785.  | 0.8 | 16        |
| 40 | Systematically expanding nondirect product bases within the pruned multi-configuration time-dependent Hartree (MCTDH) method: A comparison with multi-layer MCTDH. Journal of Chemical Physics, 2017, 146, 194105.         | 1.2 | 26        |
| 41 | Computing vibrational energy levels of CH <sub>4</sub> with a Smolyak collocation method. Journal of Chemical Physics, 2017, 147, 144102.  | 1.2 | 19        |
| 42 | Reducing the cost of using collocation to compute vibrational energy levels: Results for CH <sub>2</sub> NH. Journal of Chemical Physics, 2017, 147, 064103.   | 1.2 | 19        |
| 43 | Pruned bases that are compatible with iterative eigensolvers and general potentials: New results for CH <sub>3</sub> CN. Chemical Physics, 2017, 482, 3-8.   | 0.9 | 23        |
| 44 | Using a pruned, nondirect product basis in conjunction with the multi-configuration time-dependent Hartree (MCTDH) method. Journal of Chemical Physics, 2016, 145, 044110.   | 1.2 | 29        |
| 45 | Computational study of the rovibrational spectra of CO <sub>2</sub> -C <sub>2</sub> H <sub>2</sub> and CO <sub>2</sub> -C <sub>2</sub> D <sub>2</sub> . Journal of Molecular Spectroscopy, 2016, 330, 170-178.             | 0.4 | 23        |
| 46 | Using an expanding nondirect product harmonic basis with an iterative eigensolver to compute vibrational energy levels with as many as seven atoms. Journal of Chemical Physics, 2016, 145, 144104.                        | 1.2 | 36        |
| 47 | Calculated vibrational states of ozone up to dissociation. Journal of Chemical Physics, 2016, 144, 074302.   | 1.2 | 39        |
| 48 | Using an internal coordinate Gaussian basis and a space-fixed Cartesian coordinate kinetic energy operator to compute a vibrational spectrum with rectangular collocation. Journal of Chemical Physics, 2016, 145, 224110. | 1.2 | 32        |
| 49 | Calculated rotation-bending energy levels of CH <sub>5</sub> <sup>+</sup> and a comparison with experiment. Journal of Chemical Physics, 2016, 144, 204304.  | 1.2 | 33        |
| 50 | Methods for Computing Ro-vibrational Energy Levels. , 2016, , 135-149.   |     | 2         |
| 51 | Computational study of the rovibrational spectrum of (CO <sub>2</sub> ) <sub>2</sub> . Journal of Molecular Spectroscopy, 2016, 330, 179-187.  | 0.4 | 27        |
| 52 | Assessing the utility of phase-space-localized basis functions: Exploiting direct product structure and a new basis function selection procedure. Journal of Chemical Physics, 2016, 144, 244115.                          | 1.2 | 21        |
| 53 | Intermolecular vibrations of the CO <sub>2</sub> -CS <sub>2</sub> complex: Experiment and theory agree, but understanding remains challenging. Journal of Molecular Spectroscopy, 2016, 330, 188-193.                      | 0.4 | 3         |
| 54 | Using symmetry-adapted optimized sum-of-products basis functions to calculate vibrational spectra. Chemical Physics Letters, 2016, 644, 183-188.   | 1.2 | 18        |

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|----|---|-----|-----------|
| 55 | Using multi-dimensional Smolyak interpolation to make a sum-of-products potential. Journal of Chemical Physics, 2015, 143, 044106.  | 1.2 | 23        |
| 56 | Using an iterative eigensolver to compute vibrational energies with phase-spaced localized basis functions. Journal of Chemical Physics, 2015, 143, 044104.   | 1.2 | 23        |
| 57 | A multi-dimensional Smolyak collocation method in curvilinear coordinates for computing vibrational spectra. Journal of Chemical Physics, 2015, 143, 214108.  | 1.2 | 33        |
| 58 | Computing vibrational and ro-vibrational spectra of CH <sub>5</sub> <sup>+</sup> . AIP Conference Proceedings, 2015, , .  | 0.3 | 2         |
| 59 | Using Nested Contractions and a Hierarchical Tensor Format To Compute Vibrational Spectra of Molecules with Seven Atoms. Journal of Physical Chemistry A, 2015, 119, 13074-13091.                                       | 1.1 | 49        |
| 60 | Explicitly correlated MRCI-F12 potential energy surfaces for methane fit with several permutation invariant schemes and full-dimensional vibrational calculations. Molecular Physics, 2015, 113, 1823-1833.             | 0.8 | 63        |
| 61 | Comment on "Phase-Space Approach to Solving the Time-Independent Schrödinger Equation" Physical Review Letters, 2015, 114, 058901.  | 2.9 | 8         |
| 62 | The vibration-rotation-tunneling levels of N <sub>2</sub> -H <sub>2</sub> O and N <sub>2</sub> -D <sub>2</sub> O. Journal of Chemical Physics, 2015, 143, 024303.   | 1.2 | 10        |
| 63 | Computing the Anharmonic Vibrational Spectrum of UF <sub>6</sub> in 15 Dimensions with an Optimized Basis Set and Rectangular Collocation. Journal of Physical Chemistry A, 2015, 119, 9557-9567.                       | 1.1 | 30        |
| 64 | Neural network-based approaches for building high dimensional and quantum dynamics-friendly potential energy surfaces. International Journal of Quantum Chemistry, 2015, 115, 1012-1020.                                | 1.0 | 170       |
| 65 | Calculating vibrational spectra with sum of product basis functions without storing full-dimensional vectors or matrices. Journal of Chemical Physics, 2014, 140, 174111.   | 1.2 | 70        |
| 66 | Computational study of the rovibrational spectrum of CO <sub>2</sub> -CS <sub>2</sub> . Journal of Chemical Physics, 2014, 140, 114303.   | 1.2 | 30        |
| 67 | Using experimental data and a contracted basis Lanczos method to determine an accurate methane potential energy surface from a least squares optimization. Journal of Chemical Physics, 2014, 141, 154106.              | 1.2 | 52        |
| 68 | Rovibrational levels and wavefunctions of Cl <sup>+</sup> -H <sub>2</sub> O. Journal of Chemical Physics, 2014, 140, 204306.  | 1.2 | 24        |
| 69 | Approximate First-Principles Anharmonic Calculations of Polyatomic Spectra Using MP2 and B3LYP Potentials: Comparisons with Experiment. Journal of Physical Chemistry A, 2014, 118, 6730-6739.                          | 1.1 | 32        |
| 70 | Vibrational energy levels of difluorodioxirane computed with variational and perturbative methods from a hybrid force field. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 119, 107-112. | 2.0 | 1         |
| 71 | CO Dimer: New Potential Energy Surface and Rovibrational Calculations. Journal of Physical Chemistry A, 2013, 117, 7612-7630.   | 1.1 | 61        |
| 72 | Tribute to Joel M. Bowman. Journal of Physical Chemistry A, 2013, 117, 6905-6906.   | 1.1 | 0         |

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|----|--|-----|-----------|
| 73 | Methane line parameters in the HITRAN2012 database. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 130, 201-219.   | 1.1 | 121       |
| 74 | Computing rovibrational levels of polyatomic molecules with polyspherical coordinates and a contracted basis built with a $K$ -independent vibrational primitive basis. <i>Molecular Physics</i> , 2013, 111, 2320-2333.   | 0.8 | 7         |
| 75 | Calculating and assigning rovibrational energy levels of $(15\text{N}2\text{O})_2$ , $(15\text{N}14\text{NO})_2$ , $14\text{N}2\text{O} \leftarrow 15\text{N}2\text{O}$ and $15\text{N}14\text{NO} \leftarrow 15\text{N}2\text{O}$ . <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19159. | 1.3 | 3         |
| 76 | Anharmonic vibrations of the carboxyl group in acetic acid on $\text{TiO}_2$ : implications for adsorption mode assignment in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10028.  | 1.3 | 24        |
| 77 | Computing rovibrational levels of methane with curvilinear internal vibrational coordinates and an Eckart frame. <i>Journal of Chemical Physics</i> , 2013, 138, 104106.   | 1.2 | 73        |
| 78 | Using a Nondirect Product Basis to Compute $J > 0$ Rovibrational States of $\text{H}_3^+$ . <i>Journal of Physical Chemistry A</i> , 2013, 117, 9493-9500.   | 1.1 | 19        |
| 79 | Analysis of the rovibrational spectrum of $^{13}\text{CH}_4$ in the Octad range. <i>Journal of Molecular Spectroscopy</i> , 2013, 291, 33-47.  | 0.4 | 48        |
| 80 | Solving the Schroedinger equation using Smolyak interpolants. <i>Journal of Chemical Physics</i> , 2013, 139, 134114.  | 1.2 | 46        |
| 81 | Communication: Favorable dimensionality scaling of rectangular collocation with adaptable basis functions up to 7 dimensions. <i>Journal of Chemical Physics</i> , 2013, 139, 051101.  | 1.2 | 18        |
| 82 | Computational study of the rovibrational spectrum of $(\text{OCS})_2$ . <i>Journal of Chemical Physics</i> , 2012, 136, 134306.  | 1.2 | 55        |
| 83 | Towards Accurate Spectroscopic Identification of Species at Catalytic Surfaces: Anharmonic Vibrations of Formate on AuPt. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1484, 1.  | 0.1 | 11        |
| 84 | Solving the vibrational Schrödinger equation using bases pruned to include strongly coupled functions and compatible quadratures. <i>Journal of Chemical Physics</i> , 2012, 137, 174108.  | 1.2 | 62        |
| 85 | $K$ -independent vibrational bases for systems with large amplitude motion. <i>Molecular Physics</i> , 2012, 110, 825-835.   | 0.8 | 14        |
| 86 | Rovibrational spectra of molecules in small helium clusters. , 2012, , .   |     | 1         |
| 87 | Representing potential energy surfaces with neural networks and high dimensional model representations. , 2012, , .  |     | 0         |
| 88 | Using pruned basis sets to compute vibrational spectra. , 2012, , .  |     | 1         |
| 89 | Parameterized Bases for Calculating Vibrational Spectra Directly from ab Initio Data Using Rectangular Collocation. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 2053-2061.  | 2.3 | 21        |
| 90 | Computing polarizabilities without a Hamiltonian matrix. <i>Chemical Physics Letters</i> , 2012, 524, 96-99.   | 1.2 | 1         |

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|-----|---|-----|-----------|
| 91  | Nonspectral Methods for Solving the Schrödinger Equation for Electronic and Vibrational Problems. Journal of Physical Chemistry Letters, 2011, 2, 2193-2199.  | 2.1 | 11        |
| 92  | Using a pruned basis, a non-product quadrature grid, and the exact Watson normal-coordinate kinetic energy operator to solve the vibrational Schrödinger equation for C <sub>2</sub> H <sub>4</sub> . Journal of Chemical Physics, 2011, 135, 064101. | 1.2 | 115       |
| 93  | Using nonproduct quadrature grids to solve the vibrational Schrödinger equation in 12D. Journal of Chemical Physics, 2011, 134, 054126.   | 1.2 | 108       |
| 94  | The vibration-rotation-tunneling spectrum of the polar and T-shaped-N-in isomers of (NNO) <sub>2</sub> . Journal of Molecular Spectroscopy, 2011, 268, 53-65.   | 0.4 | 38        |
| 95  | On the advantages of a rectangular matrix collocation equation for computing vibrational spectra from small basis sets. Chemical Physics Letters, 2011, 511, 434-439.   | 1.2 | 29        |
| 96  | Computing rovibrational spectra of van der Waals molecules. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2011, 1, 952-963.   | 6.2 | 32        |
| 97  | Calculating anharmonic vibrational frequencies of molecules adsorbed on surfaces directly from ab initio energies with a molecule-independent method: H <sub>2</sub> O on Pt(111). Surface Science, 2011, 605, 616-622.                               | 0.8 | 23        |
| 98  | Theoretical study of the rovibrational spectrum of H <sub>2</sub> O-H <sub>2</sub> . Journal of Chemical Physics, 2011, 134, 044313.  | 1.2 | 55        |
| 99  | Extracting Functional Dependence from Sparse Data Using Dimensionality Reduction: Application to Potential Energy Surface Construction. Lecture Notes in Computational Science and Engineering, 2011, , 133-149.                                      | 0.1 | 5         |
| 100 | Nonproduct Quadrature Grids: Solving the Vibrational Schrödinger Equation in 12d. , 2011, , 1-12.   |     | 0         |
| 101 | A new approach for determining the time step when propagating with the Lanczos algorithm. Computer Physics Communications, 2010, 181, 1859-1861.  | 3.0 | 7         |
| 102 | Parallel methods for high-dimensional quantum dynamics. Computer Physics Communications, 2010, 181, 455-461.  | 3.0 | 11        |
| 103 | Solving the time-dependent Schroedinger equation by discarding high-energy basis functions. Chemical Physics Letters, 2010, 501, 130-133.   | 1.2 | 7         |
| 104 | Nitrous oxide dimer: A new potential energy surface and rovibrational spectrum of the nonpolar isomer. Journal of Chemical Physics, 2010, 133, 134304.  | 1.2 | 94        |
| 105 | Theoretical study of the rovibrational spectrum of He <sub>2</sub> -OCS. Canadian Journal of Chemistry, 2010, 88, 779-786.  | 0.6 | 7         |
| 106 | A Parallel Algorithm for Computing the Spectrum of CH <sub>5</sub> <sup>+</sup> . Lecture Notes in Computer Science, 2010, , 109-116.   | 1.0 | 0         |
| 107 | Nonproduct quadrature grids for solving the vibrational Schrödinger equation. Journal of Chemical Physics, 2009, 131, 174103.   | 1.2 | 99        |
| 108 | Computing vibrational energy levels by using mappings to fully exploit the structure of a pruned product basis. Journal of Chemical Physics, 2009, 130, 214110.   | 1.2 | 30        |

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|-----|--|-----|-----------|
| 109 | Fitting sparse multidimensional data with low-dimensional terms. Computer Physics Communications, 2009, 180, 2002-2012.  | 3.0 | 50        |
| 110 | Theoretical and Experimental Study of the Rovibrational Spectrum of He <sub>2</sub> CO. Journal of Physical Chemistry A, 2009, 113, 13331-13341.   | 1.1 | 22        |
| 111 | Theoretical and experimental study of infrared spectra of He <sub>2</sub> -CO <sub>2</sub> This article is part of a Special Issue on Spectroscopy at the University of New Brunswick in honour of Colan Linton and Ron Lees.. Canadian Journal of Physics, 2009, 87, 417-423. | 0.4 | 18        |
| 112 | A discrete variable representation method for studying the rovibrational quantum dynamics of molecules with more than three atoms. Journal of Chemical Physics, 2009, 130, 094101.   | 1.2 | 29        |
| 113 | Using a neural network based method to solve the vibrational Schrödinger equation for H <sub>2</sub> O. Chemical Physics Letters, 2009, 474, 217-221.  | 1.2 | 27        |
| 114 | Variational quantum approaches for computing vibrational energies of polyatomic molecules. Molecular Physics, 2008, 106, 2145-2182.  | 0.8 | 402       |
| 115 | Using neural networks, optimized coordinates, and high-dimensional model representations to obtain a vinyl bromide potential surface. Journal of Chemical Physics, 2008, 129, 224104.  | 1.2 | 100       |
| 116 | Vibrational energy levels of CH <sub>5</sub> <sup>+</sup> . Journal of Chemical Physics, 2008, 129, 234102.  | 1.2 | 140       |
| 117 | Using a nondirect product discrete variable representation for angular coordinates to compute vibrational levels of polyatomic molecules. Journal of Chemical Physics, 2008, 128, 194109.  | 1.2 | 11        |
| 118 | Using redundant coordinates to represent potential energy surfaces with lower-dimensional functions. Journal of Chemical Physics, 2007, 127, 014103.   | 1.2 | 93        |
| 119 | Vibrational Levels of Ar <sub>4</sub> : A New Odd-Parity Bosonic States. Journal of Physical Chemistry A, 2007, 111, 10220-10225.  | 1.1 | 17        |
| 120 | Discrete-Variable Representations and their Utilization. Advances in Chemical Physics, 2007, , 263-310.  | 0.3 | 496       |
| 121 | Using neural networks to represent potential surfaces as sums of products. Journal of Chemical Physics, 2006, 125, 194105.   | 1.2 | 156       |
| 122 | A Nested Molecule-Independent Neural Network Approach for High-Quality Potential Fits. Journal of Physical Chemistry A, 2006, 110, 5295-5304.  | 1.1 | 166       |
| 123 | A random-sampling high dimensional model representation neural network for building potential energy surfaces. Journal of Chemical Physics, 2006, 125, 084109.   | 1.2 | 211       |
| 124 | Vibronic coupling in square planar complexes of palladium(II) and platinum(II). Chemical Physics, 2006, 329, 90-98.  | 0.9 | 9         |
| 125 | Using simultaneous diagonalization and trace minimization to make an efficient and simple multidimensional basis for solving the vibrational Schrödinger equation. Journal of Chemical Physics, 2006, 124, 054102.   | 1.2 | 31        |
| 126 | Calculating vibrational energies and wave functions of vinylidene using a contracted basis with a locally reorthogonalized coupled two-term Lanczos eigensolver. Journal of Chemical Physics, 2006, 125, 094311.   | 1.2 | 85        |



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|-----|---|-----|-----------|
| 127 | Computing resonance energies, widths, and wave functions using a Lanczos method in real arithmetic. <i>Journal of Chemical Physics</i> , 2005, 122, 244107.   | 1.2 | 15        |
| 128 | Calculating intensities using effective Hamiltonians in terms of Coriolis-adapted normal modes. <i>Journal of Chemical Physics</i> , 2005, 122, 034106.   | 1.2 | 2         |
| 129 | Improving the calculation of rovibrational spectra of five-atom molecules with three identical atoms by using a C <sub>3i</sub> ...G6 symmetry-adapted grid: Applied to CH <sub>3</sub> D and CHD <sub>3</sub> . <i>Journal of Chemical Physics</i> , 2005, 123, 154303.                        | 1.2 | 33        |
| 130 | How to choose one-dimensional basis functions so that a very efficient multidimensional basis may be extracted from a direct product of the one-dimensional functions: Energy levels of coupled systems with as many as 16 coordinates. <i>Journal of Chemical Physics</i> , 2005, 122, 134101. | 1.2 | 80        |
| 131 | Theoretical and experimental studies of the infrared rovibrational spectrum of He <sub>2</sub> -N <sub>2</sub> O. <i>Journal of Chemical Physics</i> , 2005, 123, 034301.   | 1.2 | 71        |
| 132 | Contracted basis Lanczos methods for computing numerically exact rovibrational levels of methane. <i>Journal of Chemical Physics</i> , 2004, 121, 2937-2954.  | 1.2 | 117       |
| 133 | A multidimensional discrete variable representation basis obtained by simultaneous diagonalization. <i>Journal of Chemical Physics</i> , 2004, 121, 726-736.  | 1.2 | 46        |
| 134 | Using preconditioned adaptive step size Runge-Kutta methods for solving the time-dependent Schrödinger equation. <i>Journal of Chemical Physics</i> , 2004, 121, 11535-11541.   | 1.2 | 44        |
| 135 | Using simply contracted basis functions with the Lanczos algorithm to calculate vibrational spectra. <i>International Journal of Quantum Chemistry</i> , 2004, 99, 556-566.   | 1.0 | 4         |
| 136 | Methods for calculating vibrational energy levels. <i>Canadian Journal of Chemistry</i> , 2004, 82, 900-914.  | 0.6 | 31        |
| 137 | USING LEBEDEV GRIDS, SINE SPHERICAL HARMONICS, AND MONOMER CONTRACTED BASIS FUNCTIONS TO CALCULATE BENDING ENERGY LEVELS OF HF TRIMER. <i>Journal of Theoretical and Computational Chemistry</i> , 2003, 02, 599-608.   | 1.8 | 20        |
| 138 | A finite basis representation Lanczos calculation of the bend energy levels of methane. <i>Journal of Chemical Physics</i> , 2003, 118, 6946-6956.  | 1.2 | 85        |
| 139 | Deficiencies of the bend symmetry coordinates used for methane. <i>Journal of Chemical Physics</i> , 2003, 118, 6260-6263.  | 1.2 | 23        |
| 140 | A contracted basis-Lanczos calculation of vibrational levels of methane: Solving the Schrödinger equation in nine dimensions. <i>Journal of Chemical Physics</i> , 2003, 119, 101-117.  | 1.2 | 177       |
| 141 | Semiclassically optimized complex absorbing potentials of polynomial form. II. Complex case. <i>Journal of Chemical Physics</i> , 2003, 119, 77-89.   | 1.2 | 35        |
| 142 | Semiclassically optimized complex absorbing potentials of polynomial form. I. Pure imaginary case. <i>Journal of Chemical Physics</i> , 2003, 118, 17-28.   | 1.2 | 57        |
| 143 | Using C <sub>3v</sub> symmetry with polyspherical coordinates for methane. <i>Journal of Chemical Physics</i> , 2003, 119, 94-100.  | 1.2 | 23        |
| 144 | A general framework for discrete variable representation basis sets. <i>Journal of Chemical Physics</i> , 2002, 116, 8691-8703.   | 1.2 | 129       |

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