## Breno Galvão

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4399070/publications.pdf

Version: 2024-02-01

759233 794594 51 512 12 19 citations h-index g-index papers 52 52 52 386 docs citations times ranked citing authors all docs

| #  | Article                                                                                                                                                                                                                                                                                         | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Oxidative desulfurization of dibenzothiophene over highly dispersed Mo-doped graphitic carbon nitride. Chemical Papers, 2022, 76, 3401-3412.                                                                                                                                                    | 2.2  | 12        |
| 2  | Gas-Phase Preparation of Silyl Cyanide (SiH <sub>3</sub> CN) via a Radical Substitution Mechanism. Journal of the American Chemical Society, 2022, 144, 8649-8657.                                                                                                                              | 13.7 | 5         |
| 3  | Quasiclassical Trajectory Study of the Si + SH Reaction on an Accurate Double Many-Body Expansion<br>Potential Energy Surface. Journal of Physical Chemistry A, 2022, 126, 3555-3568.                                                                                                           | 2.5  | 2         |
| 4  | The SiÂ+ÂSO2 collision and an extended network of neutral–neutral reactions between silicon and sulphur bearing species. Monthly Notices of the Royal Astronomical Society, 2022, 515, 369-377.                                                                                                 | 4.4  | 2         |
| 5  | Mechanisms for N 3 formation in radiated solid nitrogen: Computational predictions including excited electronic states. International Journal of Quantum Chemistry, 2021, 121, e26562.                                                                                                          | 2.0  | O         |
| 6  | Chemical dynamics study on the gas-phase reaction of the D1-silylidyne radical (SiD; X $<$ sup $>$ 2 $<$ /sup $>$ Î) with deuterium sulfide (D $<$ sub $>$ 2 $<$ /sub $>$ S) and hydrogen sulfide (H $<$ sub $>$ 2 $<$ /sub $>$ S). Physical Chemistry Chemical Physics, 2021, 23, 13647-13661. | 2.8  | 5         |
| 7  | Accurate DMBE potential-energy surface for CNO( $2 < i > A <  i > \hat{a} \in 3$ ) and rate coefficients in C(3P)+NO collisions. Journal of Chemical Physics, 2021, 154, 034303.                                                                                                                | 3.0  | 3         |
| 8  | Non-Adiabatic Reaction Dynamics in the Gas-Phase Formation of Phosphinidenesilylene, the Isovalent Counterpart of Hydrogen Isocyanide, under Single-Collision Conditions. Journal of Physical Chemistry Letters, 2021, 12, 2489-2495.                                                           | 4.6  | 4         |
| 9  | A new active learning approach for global optimization of atomic clusters. Theoretical Chemistry Accounts, 2021, 140, 1.                                                                                                                                                                        | 1.4  | 12        |
| 10 | Nonadiabatic reaction dynamics to silicon monosulfide (SiS): A key molecular building block to sulfur-rich interstellar grains. Science Advances, 2021, 7, .                                                                                                                                    | 10.3 | 10        |
| 11 | A Crossed Molecular Beams and Computational Study of the Formation of the Astronomically Elusive Thiosilaformyl Radical (HSiS, X2A′). Journal of Physical Chemistry Letters, 2021, 12, 5979-5986.                                                                                               | 4.6  | 1         |
| 12 | Interconversion mechanisms of PN and PO in the interstellar medium through simple atom–diatom collisions. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1899-1903.                                                                                                              | 4.4  | 4         |
| 13 | Thermochromism in Polydiacetylene/Poly(vinyl alcohol) Hydrogels Obtained by the Freeze–Thaw Method: A Theoretical and Experimental Study. Industrial & Engineering Chemistry Research, 2021, 60, 13243-13252.                                                                                   | 3.7  | 1         |
| 14 | Directed gas-phase preparation of the elusive phosphinosilylidyne (SiPH2, X2A′′) and cis/trans phosphinidenesilyl (HSiPH; X2A′) radicals under single-collision conditions. Physical Chemistry Chemical Physics, 2021, 23, 18506-18516.                                                         | 2.8  | 0         |
| 15 | Stability of neutral molecular polynitrogens: energy content and decomposition mechanisms. RSC Advances, 2021, 11, 21567-21578.                                                                                                                                                                 | 3.6  | 4         |
| 16 | SiS Formation in the Interstellar Medium through Si+SH Gas-phase Reactions. Astrophysical Journal, 2021, 920, 37.                                                                                                                                                                               | 4.5  | 10        |
| 17 | Dinuclear copper(II) complex with a benzimidazole derivative: Crystal structure, theoretical calculations, and cytotoxic activity. Applied Organometallic Chemistry, 2020, 34, e5425.                                                                                                           | 3.5  | 7         |
| 18 | Reliability of semiempirical and DFTB methods for the global optimization of the structures of nanoclusters. Journal of Molecular Modeling, 2020, 26, 303.                                                                                                                                      | 1.8  | 15        |

| #  | Article                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | IF                                                                     | Citations |
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| 19 | An ab initio investigation of the adsorption properties of water on binary AlSi clusters. Physical Chemistry Chemical Physics, 2020, 22, 24669-24676.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.8                                                                    | 2         |
| 20 | A method for predicting basins in the global optimization of nanoclusters with applications to AlxCuy alloys. Physical Chemistry Chemical Physics, 2020, 22, 16914-16925.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.8                                                                    | 3         |
| 21 | Accurate Potential Energy Surface for Quartet State HN <sub>2</sub> and Interplay of N( <sup>4</sup> i>S) + NH( <i>XÌf</i> <sup>3</sup> Σ <sup>â€"</sup> ) versus H + N <sub>2</sub> ( <i>A</i> >Chemistry A. 2020. 124. 781-789.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.5                                                                    | 5         |
| 22 | SiS formation via gas phase reactions between atomic silicon and sulphur-bearing species. Monthly Notices of the Royal Astronomical Society, 2020, 493, 299-304.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4.4                                                                    | 10        |
| 23 | Quasiclassical Study of the C( <sup>3</sup> P) + NO(X <sup>2</sup> Î) and O( <sup>3</sup> P) + CN(X <sup>2</sup> Σ <sup>+</sup> ) Collisional Processes on an Accurate DMBE Potential Energy Surface. Journal of Physical Chemistry A, 2019, 123, 7195-7200.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2.5                                                                    | 7         |
| 24 | What Electronic Structure Method Can Be Used in the Global Optimization of Nanoclusters?. Journal of Physical Chemistry A, 2019, 123, 10454-10462.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2.5                                                                    | 15        |
| 25 | A trajectory surface hopping study of <mml:math altimg="si45.svg" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mrow><mml:mtext>N</mml:mtext></mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mi></mml:mi></mml:mrow><mml:mrow><mml:mrow><mml:mi></mml:mi></mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:math> | w> <mml:r<br><mml:mo< td=""><td>nn&gt;2&gt;+</td></mml:mo<></mml:r<br> | nn>2>+    |
| 26 | Adsorption of CO2 on biphasic and amorphous calcium phosphates: An experimental and theoretical analysis. Chemical Physics Letters, 2019, 714, 143-148.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2.6                                                                    | 12        |
| 27 | Accurate Explicit-Correlation-MRCI-Based DMBE Potential-Energy Surface for Ground-State CNO.<br>Journal of Physical Chemistry A, 2018, 122, 4198-4207.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.5                                                                    | 13        |
| 28 | Accurate theoretical predictions on the mechanisms of OSiS formation and its dissociation channels. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1858-1861.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4.4                                                                    | 6         |
| 29 | A genetic algorithm survey on closed-shell atomic nitrogen clusters employing a quantum chemical approach. Journal of Molecular Modeling, 2018, 24, 196.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.8                                                                    | 9         |
| 30 | Theoretical study on the structure and reactions of uranium fluorides. Journal of Molecular Modeling, 2018, 24, 197.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.8                                                                    | 4         |
| 31 | Emerging contaminants removal by granular activated carbon obtained from residual Macauba biomass. Environmental Science and Pollution Research, 2018, 25, 26482-26492.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>5.</b> 3                                                            | 36        |
| 32 | Structural and homotop optimization of neutral Al–Si nanoclusters. Physical Chemistry Chemical Physics, 2018, 20, 17464-17470.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.8                                                                    | 9         |
| 33 | Accurate multi-reference study of Si3 electronic manifold. Theoretical Chemistry Accounts, 2016, 135, 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1.4                                                                    | 2         |
| 34 | Modeling cusps in adiabatic potential energy surfaces using a generalized Jahn-Teller coordinate. Chemical Physics Letters, 2016, 660, 55-59.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.6                                                                    | 12        |
| 35 | Structure and stability of neutral Al–Mg nanoclusters up to 55 atoms. Physical Chemistry Chemical Physics, 2016, 18, 31579-31585.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.8                                                                    | 10        |
| 36 | Modeling Cusps in Adiabatic Potential Energy Surfaces. Journal of Physical Chemistry A, 2015, 119, 1415-1421.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.5                                                                    | 15        |

| #  | Article                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IF                        | Citations    |
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| 37 | The effect of intersystem crossings in N(2D) + H2 collisions. Journal of Chemical Physics, 2015, 142, 184302.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3.0                       | 2            |
| 38 | Exploring the MP2 energy surface of nanoalloy clusters with a genetic algorithm: Application to sodium–potassium. Chemical Physics Letters, 2015, 639, 135-141.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.6                       | 15           |
| 39 | Growth analysis of sodium-potassium alloy clusters from 7 to 55 atoms through a genetic algorithm approach. Journal of Molecular Modeling, 2014, 20, 2421.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.8                       | 5            |
| 40 | Exploring the Utility of Many-Body Expansions: A Consistent Set of Accurate Potentials for the Lowest Quartet and Doublet States of the Azide Radical with Revisited Dynamics. Journal of Physical Chemistry A, 2014, 118, 10127-10133.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.5                       | 6            |
| 41 | Theoretical study of small sodium–potassium alloy clusters through genetic algorithm and quantum chemical calculations. Physical Chemistry Chemical Physics, 2014, 16, 8895-8904.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.8                       | 11           |
| 42 | Electronic Quenching in N( <sup>2</sup> D) + N <sub>2</sub> Collisions: A State-Specific Analysis via Surface Hopping Dynamics. Journal of Chemical Theory and Computation, 2014, 10, 1872-1877.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5.3                       | 16           |
| 43 | altimg="si20.gif" overflow="scroll"> <mml:mrow><mml:mi< td=""><td>l 0<u>.7</u>8431<br/>2.6</td><td>4 rgBT /Over</td></mml:mi<></mml:mrow>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | l 0 <u>.7</u> 8431<br>2.6 | 4 rgBT /Over |
| 44 | mathyariant="normal">Ns/mmkmi>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkmrow>s/mmkm | b> 2.5                    | nrow>        |
| 45 | Electronic Quenching of N( <sup>2</sup> D) by N <sub>2</sub> : Theoretical Predictions, Comparison with Experimental Rate Constants, and Impact on Atmospheric Modeling. Journal of Physical Chemistry Letters, 2013, 4, 2292-2297.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.6                       | 22           |
| 46 | N(4 <i>&gt;S</i> /2 <i>D</i> )+N2: Accurate <i>ab initio</i> -based DMBE potential energy surfaces and surface-hopping dynamics. Journal of Chemical Physics, 2012, 137, 22A515.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3.0                       | 27           |
| 47 | Ab Initio Based Double-Sheeted DMBE Potential Energy Surface for N <sub>3</sub> ( $\sup$ 2 <i>A</i> ) and Exploratory Dynamics Calculations. Journal of Physical Chemistry A, 2011, 115, 12390-12398.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.5                       | 26           |
| 48 | Quasiclassical trajectory study of the rotational distribution for the O+NO( $\langle i\rangle v\langle j\rangle = 0$ ) fundamental vibrational excitation. International Journal of Chemical Kinetics, 2011, 43, 345-352.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.6                       | 3            |
| 49 | Quasiclassical Trajectory Study of Atom-Exchange and Vibrational Relaxation Processes in Collisions of Atomic and Molecular Nitrogen. Journal of Physical Chemistry A, 2010, 114, 6063-6070.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.5                       | 28           |
| 50 | Accurate Double Many-Body Expansion Potential Energy Surface for N <sub>3</sub> ( <sup>4</sup> A′′) from Correlation Scaled ab Initio Energies with Extrapolation to the Complete Basis Set Limit. Journal of Physical Chemistry A, 2009, 113, 14424-14430.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2.5                       | 51           |
| 51 | Energy-switching potential energy surface for the water molecule revisited: A highly accurate singled-sheeted form. Journal of Chemical Physics, 2008, 129, 044302.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.0                       | 11           |