

Ricardo Gargano

List of Publications by Year in descending order

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113
papers

1,324
citations

361413

20
h-index

526287

27
g-index

113
all docs

113
docs citations

113
times ranked

1010
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Magnetism and perfect spin filtering in pristine MgCl ₂ nanoribbons modulated by edge modification. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 3370-3378. | 2.8 | 3 |
| 2 | Functionalized graphene-based Quantum Dots: Promising adsorbents for CO, NO ₂ , SO ₂ , and NH ₃ Pollutant Gases. <i>Materials Today Communications</i> , 2022, 31, 103426. | 1.9 | 3 |
| 3 | Relativistic four-component potential energy curves for the lowest 23 covalent states of molecular astatine (At ₂). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 245, 118869. | 3.9 | 4 |
| 4 | Spectroscopy, lifetime, and charge-displacement of the methanol-noble gas complexes: An integrated experimental-theoretical investigation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 246, 119049. | 3.9 | 4 |
| 5 | Discovery of sustainable drugs for Alzheimer's disease: cardanol-derived cholinesterase inhibitors with antioxidant and anti-amyloid properties. <i>RSC Medicinal Chemistry</i> , 2021, 12, 1154-1163. | 3.9 | 11 |
| 6 | Nature and role of the weak intermolecular bond in enantiomeric conformations of H ₂ O ⁺ noble gas adducts: a chiral prototypical model. <i>New Journal of Chemistry</i> , 2021, 45, 8240-8247. | 2.8 | 3 |
| 7 | Investigation of strength and nature of the weak intermolecular bond in NH ₂ radical-noble gas atom adducts and evaluation of their basic spectroscopic features. <i>Chemical Physics Letters</i> , 2021, 769, 138386. | 2.6 | 3 |
| 8 | A Spectroscopic Validation of the Improved Lennard-Jones Model. <i>Molecules</i> , 2021, 26, 3906. | 3.8 | 6 |
| 9 | Accurate acid dissociation constant (pKa) calculation for the sulfachloropyridazine and similar molecules. <i>Journal of Molecular Modeling</i> , 2021, 27, 233. | 1.8 | 4 |
| 10 | Structural, theoretical and biological activity of mono and binuclear nickel(II) complexes with symmetrical and asymmetrical 4,6-diacetylresorcinol-dithiocarbazate ligands. <i>Journal of Inorganic Biochemistry</i> , 2021, 224, 111559. | 3.5 | 7 |
| 11 | Silicon carbide nanobelt: A novel molecule with potential technological application. <i>Computational and Theoretical Chemistry</i> , 2020, 1171, 112645. | 2.5 | 4 |
| 12 | Accurate spectroscopic properties by diffusion quantum Monte Carlo calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 243, 118707. | 3.9 | 0 |
| 13 | A first-principles study of the substitutional doping of the MgCl ₂ monolayer for spintronics applications. <i>New Journal of Chemistry</i> , 2020, 44, 8833-8839. | 2.8 | 18 |
| 14 | Hydrogen sulphide (H ₂ S) and noble gases (Ng = He, Ne, Ar, Kr, Xe, Rn) complexes: A theoretical study of their dynamics, spectroscopy, and interactions. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26266. | 2.0 | 4 |
| 15 | Computational analysis of vibrational frequencies and rovibrational spectroscopic constants of hydrogen sulfide dimer using MP2 and CCSD(T). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 239, 118540. | 3.9 | 14 |
| 16 | Combining electronic properties and virtual screening for the development of new antioxidants: Trolox-like compounds as application example. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26194. | 2.0 | 1 |
| 17 | Synthesis, theoretical calculation and anticancer activity of 4,6-diacetylresorcinol-dithiocarbazates and their Copper(II) complexes. <i>Journal of Molecular Structure</i> , 2020, 1212, 128083. | 3.6 | 25 |
| 18 | Molecular modeling of cardanol-derived AChE inhibitors. <i>Chemical Physics Letters</i> , 2019, 731, 136591. | 2.6 | 5 |

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|----|---|-----|-----------|
| 19 | A theoretical study of adsorbed non-metallic atoms on magnesium chloride monolayers. <i>New Journal of Chemistry</i> , 2019, 43, 7778-7783. | 2.8 | 10 |
| 20 | BTEX adsorption on TiO ₂ anatase and rutile surfaces: DFT functionals. <i>Journal of Molecular Modeling</i> , 2019, 25, 137. | 1.8 | 8 |
| 21 | Dynamics and spectroscopy of van der Waals complexes composed of ammonia and noble gases. <i>Journal of Molecular Modeling</i> , 2019, 25, 126. | 1.8 | 0 |
| 22 | Theoretical Investigation on H ₂ O ₂ -Ng (He, Ne, Ar, Kr, Xe, and Rn) Complexes Suitable for Stereodynamics: Interactions and Thermal Chiral Rate Consequences. <i>Frontiers in Chemistry</i> , 2019, 6, 671. | 3.6 | 5 |
| 23 | CO ₂ adsorption in nitrogen-doped single-layered graphene quantum dots: a spectroscopic investigation. <i>Journal of Molecular Modeling</i> , 2019, 25, 66. | 1.8 | 3 |
| 24 | Methanol, ethanol, propanol, and butanol adsorption on H-ZSM-5 zeolite: an ONIOM study. <i>Journal of Molecular Modeling</i> , 2019, 25, 34. | 1.8 | 14 |
| 25 | On the Angular Distribution of the H+Li ₂ Cross Sections: a Converged Time-Independent Quantum Scattering Study. <i>Scientific Reports</i> , 2018, 8, 1044. | 3.3 | 3 |
| 26 | Similarity search combined with docking and molecular dynamics for novel hAChE inhibitor scaffolds. <i>Journal of Molecular Modeling</i> , 2018, 24, 41. | 1.8 | 13 |
| 27 | Krypton-methanol spectroscopic study: Assessment of the complexation dynamics and the role of the van der Waals interaction. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 205, 179-185. | 3.9 | 4 |
| 28 | The interaction of CCl ₄ with Ng (Ng = He, Ne, Ar), O ₂ , D ₂ O and ND ₃ : rovibrational energies, spectroscopic constants and theoretical calculations. <i>Journal of Molecular Modeling</i> , 2017, 23, 87. | 1.8 | 3 |
| 29 | Potential acetylcholinesterase inhibitors: molecular docking, molecular dynamics, and in silico prediction. <i>Journal of Molecular Modeling</i> , 2017, 23, 67. | 1.8 | 24 |
| 30 | A novel analytical potential function for dicationic diatomic molecular systems based on deformed exponential function. <i>Journal of Molecular Modeling</i> , 2017, 23, 182. | 1.8 | 3 |
| 31 | Quantum Monte Carlo with density matrix: potential energy curve derived properties. <i>Journal of Molecular Modeling</i> , 2017, 23, 104. | 1.8 | 2 |
| 32 | Quantum isotope effects on the H+Li ₂ reaction. <i>Journal of Molecular Modeling</i> , 2017, 23, 116. | 1.8 | 2 |
| 33 | Coupled-cluster based basis sets for valence correlation calculations. <i>Journal of Chemical Physics</i> , 2016, 144, 104106. | 3.0 | 16 |
| 34 | Impact of the Electron-Phonon Interactions on the Polaron Dynamics in Graphene Nanoribbons. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4901-4906. | 2.5 | 19 |
| 35 | 4-Component correlated all-electron study on Eka-actinium Fluoride (E121F) including Gaunt interaction: Accurate analytical form, bonding and influence on rovibrational spectra. <i>Chemical Physics Letters</i> , 2016, 662, 169-175. | 2.6 | 10 |
| 36 | Methanol Solvation Effect on the Proton Rearrangement of Curcumin's Enol Forms: An Ab Initio Molecular Dynamics and Electronic Structure Viewpoint. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19923-19931. | 3.1 | 27 |

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|----|--|------|-----------|
| 37 | Polaron Properties in Armchair Graphene Nanoribbons. Journal of Physical Chemistry A, 2016, 120, 4893-4900. | 2.5 | 21 |
| 38 | Predicting New Pathways for the Reaction CN + C ₂ H ₂ . Revista Virtual De Quimica, 2016, 8, 515-524. | 0.4 | 4 |
| 39 | A combined crossed molecular beams and theoretical study of the reaction CN+C ₂ H ₄ . Chemical Physics, 2015, 449, 34-42. | 1.9 | 17 |
| 40 | Concentration effects on intrachain polaron recombination in conjugated polymers. Physical Chemistry Chemical Physics, 2015, 17, 1299-1308. | 2.8 | 7 |
| 41 | Impurity effects on polaron dynamics in graphene nanoribbons. Carbon, 2015, 91, 171-177. | 10.3 | 26 |
| 42 | CO ₂ adsorption on single-walled boron nitride nanotubes containing vacancy defects. RSC Advances, 2015, 5, 27412-27420. | 3.6 | 28 |
| 43 | Rovibrational energies and spectroscopic constants for H ₂ O ⁺ Ng complexes. Journal of Molecular Modeling, 2014, 20, 2498. | 1.8 | 17 |
| 44 | A detailed reactive cross section study of X + Li ₂ → Li + LiX, with X = H, D, T, and Mu. Journal of Molecular Modeling, 2014, 20, 2315. | 1.8 | 4 |
| 45 | Critical temperature and products of intrachain polaron recombination in conjugated polymers. Physical Chemistry Chemical Physics, 2014, 16, 17072-17080. | 2.8 | 34 |
| 46 | Reactive Scattering between Excitons and Charge Carriers in Conjugated Polymers. Journal of Physical Chemistry C, 2014, 118, 23451-23458. | 3.1 | 13 |
| 47 | Temperature effects on intrachain recombination of bipolarons in conjugated polymers. Chemical Physics Letters, 2014, 614, 151-155. | 2.6 | 12 |
| 48 | Alternative analytical forms to model diatomic systems based on the deformed exponential function. Journal of Molecular Modeling, 2014, 20, 2297. | 1.8 | 1 |
| 49 | Rovibrational energy and spectroscopic constant calculations of CH ₄ ⁺ , CH ₄ ⁺ H ₂ O, CH ₄ ⁺ CO, H ₂ O ⁺ CHF ₃ dimers. Journal of Molecular Modeling, 2014, 20, 2298. | 1.8 | 8 |
| 50 | Relativistic Four-Component Potential Energy Curves for the Lowest 23 Covalent States of Molecular Bromine (Br ₂). Journal of Physical Chemistry A, 2014, 118, 5818-5822. | 2.5 | 12 |
| 51 | Carbon dioxide adsorption on doped boron nitride nanotubes. RSC Advances, 2014, 4, 28249-28258. | 3.6 | 34 |
| 52 | Acetylcholinesterase inhibitors: Modeling potential candidates. International Journal of Quantum Chemistry, 2013, 113, 1461-1466. | 2.0 | 6 |
| 53 | An extensive investigation of reactions involved in the nitrogen trifluoride dissociation. New Journal of Chemistry, 2013, 37, 3244. | 2.8 | 1 |
| 54 | Effects of temperature and electric field induced phase transitions on the dynamics of polarons and bipolarons. New Journal of Chemistry, 2013, 37, 2829. | 2.8 | 48 |

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| 55 | Impurity effects and temperature influence on the exciton dissociation dynamics in conjugated polymers. <i>Chemical Physics Letters</i> , 2013, 580, 108-114. | 2.6 | 20 |
| 56 | Predicting the equilibrium structure of organic semiconductors with genetic algorithms. <i>Chemical Physics Letters</i> , 2013, 555, 168-172. | 2.6 | 15 |
| 57 | Vibrational and Electronic Structure Analysis of a Carbon Dioxide Interaction with Functionalized Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2854-2861. | 2.5 | 20 |
| 58 | Dynamical Study of Impurity Effects on Bipolaronâ€“Bipolaron and Bipolaronâ€“Polaron Scattering in Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2013, 117, 11801-11811. | 2.6 | 20 |
| 59 | Impurity effects on polaron-exciton formation in conjugated polymers. <i>Journal of Chemical Physics</i> , 2013, 139, 174903. | 3.0 | 18 |
| 60 | A Theoretical Investigation of ZnO Nanotubes: Size and Diameter. <i>Current Physical Chemistry</i> , 2013, 3, 400-407. | 0.2 | 8 |
| 61 | Fully relativistic rovibrational energies and spectroscopic constants of the lowest $X^1O_g^+$, $A^2(1)2u$, $A(1)1u$, $B^1(1)O_u^-$ and $B^1(1)O_u^+$ states of molecular chlorine. <i>Journal of Molecular Modeling</i> , 2012, 18, 4343-4348. | 1.8 | 10 |
| 62 | Supersonic quasi-particles dynamics in organic semiconductors. <i>Chemical Physics Letters</i> , 2012, 550, 146-149. | 2.6 | 7 |
| 63 | The H + Li2 bimolecular exchange reaction: Dynamical and kinetical properties at J = 0. <i>Journal of Chemical Physics</i> , 2012, 136, 134319. | 3.0 | 14 |
| 64 | Calculation of the H^2 rovibrational energies and spectroscopic constants in the $2p^1$, $3d^1$, $4d^1$, $4f^1$, $5g^1$, and $6i^1$ electronic states. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 829-833. | 2.0 | 8 |
| 65 | Benzeneâ€“kaolinite interaction properties. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 2828-2831. | 2.0 | 9 |
| 66 | ONIOM study of dissociated hydrogen and water on ZnO surface. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 3223-3227. | 2.0 | 10 |
| 67 | Spectroscopic properties of the molecular ion in the $8k^1$, $9k^1$, $9l^1$ and $10o^1$ electronic states. <i>Journal of Molecular Spectroscopy</i> , 2012, 273, 26-29. | 1.2 | 13 |
| 68 | Ab Initio correlated all electron Dirac-Fock calculations for eka-francium fluoride (E119F). <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 1104-1113. | 0.6 | 9 |
| 69 | Thermal Rate Constant Calculation of the NF + F Reactive System Multiple Arrangements. <i>Journal of Physical Chemistry A</i> , 2011, 115, 8248-8254. | 2.5 | 4 |
| 70 | Fully Relativistic 4-Components DFT Investigation on Bonding and Dissociation Energy of HgO. <i>Journal of Computational and Theoretical Nanoscience</i> , 2011, 8, 38-42. | 0.4 | 2 |
| 71 | A chromophoric study of 2-ethylhexyl p-methoxycinnamate. <i>Chemical Physics Letters</i> , 2011, 516, 162-165. | 2.6 | 13 |
| 72 | H^2 dynamical properties in the electronic states $7j^1$, $8j^1$, $8k^1$, $7i^1$, and $8j^1p$. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 1316-1320. | 2.0 | 2 |

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|----|---|-----|-----------|
| 73 | Theoretical study of tetrahydrofuran: Comparative investigation of spectroscopic and structural properties between gas and liquid phases. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 2914-2921. | 2.0 | 7 |
| 74 | Exciton dissociation and charge carrier recombination processes in organic semiconductors. <i>Journal of Chemical Physics</i> , 2011, 135, 224901. | 3.0 | 34 |
| 75 | Use of generalized exponential function to build three-dimensional reactive surfaces. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 3604-3612. | 2.6 | 5 |
| 76 | Theoretical calculations of a new potential energy surface for the H + Li2 reaction. <i>Chemical Physics Letters</i> , 2010, 490, 123-126. | 2.6 | 16 |
| 77 | Thermal effects on photogeneration of free carriers in organic conductors. <i>Chemical Physics Letters</i> , 2010, 493, 283-287. | 2.6 | 22 |
| 78 | Dynamical properties and thermal rate coefficients for the $\text{Na} + \text{HF}$ reaction using genetic algorithm. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 1070-1079. | 2.0 | 7 |
| 79 | Thermal rate coefficients calculation for the $\text{H} + \text{LiH}$ reaction. <i>International Journal of Quantum Chemistry</i> , 2010, 110, 2024-2028. | 2.0 | 5 |
| 80 | Electronic structure of vertically coupled double quantum dots: Optimization of basis functions. <i>Chemical Physics Letters</i> , 2010, 494, 228-231. | 2.6 | 0 |
| 81 | Theoretical Temperature Dependence of the Charge-Carrier Mobility in Semiconducting Polymers. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14591-14594. | 2.5 | 24 |
| 82 | A Computational Investigation of the Multiple Channels of the $\text{NF}_2 + \text{F}$ Reaction. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14336-14342. | 2.5 | 3 |
| 83 | Theoretical investigation of carotenoid ultraviolet spectra. <i>International Journal of Quantum Chemistry</i> , 2009, 109, 739-745. | 2.0 | 35 |
| 84 | Molecular Dynamics Investigation of Charge Carrier Density Influence over Mobility in Conjugated Polymers. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14975-14978. | 2.5 | 15 |
| 85 | Theoretical Study of $\text{CH}_4 \cdots \text{CH}_4$, $\text{CHF}_3 \cdots \text{CH}_4$, $\text{CH}_4 \cdots \text{H}_2\text{O}$, and $\text{CHF}_3 \cdots \text{H}_2\text{O}$ Dimers. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14818-14823. | 2.5 | 30 |
| 86 | Quantum Monte Carlo and genetic algorithm study of the potential energy surface of the H molecule. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2318-2325. | 2.0 | 7 |
| 87 | Quantum reactive study of a potential energy surface obtained via genetic algorithm. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2306-2311. | 2.0 | 1 |
| 88 | Chain length effects on nonlinear excitation transitions in trans- ϵ -polyacetylene. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2507-2511. | 2.0 | 2 |
| 89 | Dynamics of photoexcitations with interchain coupling in conjugated polymers. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2442-2447. | 2.0 | 3 |
| 90 | Molecular properties calculations using the qâ€integral method. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 2540-2549. | 2.0 | 10 |

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|-----|---|-----|-----------|
| 91 | Rovibrational energies and spectroscopic constants of the H^+ system in the electronic states $1^1\Sigma$, $7^1\Sigma$, $5^1\Pi$, $5^1\Pi$, $6^1\Sigma$, and $6^1\Sigma$. International Journal of Quantum Chemistry, 2008, 108, 2398-2402. | 2.0 | 4 |
| 92 | Temperature effects on polaron stability in polyacetylene. International Journal of Quantum Chemistry, 2008, 108, 2448-2453. | 2.0 | 12 |
| 93 | Fitting potential energy surface of reactive systems via genetic algorithm. International Journal of Quantum Chemistry, 2006, 106, 2650-2657. | 2.0 | 14 |
| 94 | Ab initio studies of hydrogen-bonded complexes: The H_2O dimer, trimer and H_2OCO . Chemical Physics Letters, 2006, 427, 29-34. | 2.6 | 18 |
| 95 | Complexes of water with the fluoromethanes. Chemical Physics Letters, 2006, 431, 51-55. | 2.6 | 15 |
| 96 | Impurity effects on solitons in conjugated polymer linking model hamiltonians and ab initio method descriptions. Computational and Theoretical Chemistry, 2006, 769, 33-37. | 1.5 | 0 |
| 97 | A genetic algorithm to build diatomic potentials. Computational and Theoretical Chemistry, 2006, 769, 47-51. | 1.5 | 9 |
| 98 | $\text{NF}_3 + \text{N} = \text{NF}_2 + \text{NF}$ rate constant calculated using TST with simple tunneling correction. Computational and Theoretical Chemistry, 2006, 769, 201-205. | 1.5 | 6 |
| 99 | Intermolecular interactions of H_2S with rare gases from molecular beam scattering in the glory regime and from ab initio calculations. Journal of Chemical Physics, 2006, 125, 133111. | 3.0 | 37 |
| 100 | Theoretical rate constants for the reaction $\text{BF}_2 + \text{NF} = \text{BF}_3 + \text{N}$ of importance in boron nitride chemistry. Chemical Physics Letters, 2005, 413, 151-156. | 2.6 | 18 |
| 101 | Quasi-classical dynamical properties and reaction rate of the $\text{Na} + \text{HF}$ system on two different potential energy surfaces. International Journal of Quantum Chemistry, 2005, 103, 695-702. | 2.0 | 3 |
| 102 | Thermochemistry of molecules in the B/F/H/N system. International Journal of Quantum Chemistry, 2005, 103, 659-684. | 2.0 | 33 |
| 103 | Theoretical study of the reactions $\text{BF}_3 + \text{BX}$, where $\text{X} = \text{H}$ or N . International Journal of Quantum Chemistry, 2005, 103, 685-694. | 2.0 | 23 |
| 104 | Linking model Hamiltonians to ab initio and semiempirical methods in descriptions of impurities in conjugated polymers. International Journal of Quantum Chemistry, 2005, 103, 537-542. | 2.0 | 3 |
| 105 | A simple program to determine the reaction rate and thermodynamic properties of reacting system. Computational and Theoretical Chemistry, 2003, 639, 167-176. | 1.5 | 34 |
| 106 | Quantum and classical study of vibrational states of H_2^{+2} and H_2^{+3} molecules. International Journal of Quantum Chemistry, 2003, 95, 149-152. | 2.0 | 6 |
| 107 | Quasiclassical trajectory calculations of isotopic reactions $\text{Na} + \text{XF} \rightarrow \text{NaF} + \text{X}$ ($\text{X} = \text{D, T}$ and M) on two different potential energy surfaces. International Journal of Quantum Chemistry, 2003, 95, 159-163. | 2.0 | 5 |
| 108 | Fitting potential energy surface for reactive scattering dynamics through generalized simulated annealing. Chemical Physics Letters, 2002, 359, 420-427. | 2.6 | 16 |

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|-----|--|-----|-----------|
| 109 | The Na+HF reactive probabilities calculations using two different potential energy surfaces. Chemical Physics Letters, 2002, 361, 271-276. | 2.6 | 18 |
| 110 | The quantum description ($J=0$) of the Na+DF $\hat{\rightarrow}$ NaF+D isotopic reaction. Computational and Theoretical Chemistry, 2001, 539, 215-222. | 1.5 | 8 |
| 111 | Attack angle dependence of the Na+HF $\hat{\rightarrow}$ NaF+H reaction at $J=0$. Chemical Physics Letters, 1999, 309, 257-264. | 2.6 | 19 |
| 112 | Parallel time independent quantum calculations of atom diatom reactivity. Lecture Notes in Computer Science, 1996, , 361-370. | 1.3 | 14 |
| 113 | H ₂ O ₂ Ng dynamics predictions using an accurate potential energy surface. Molecular Physics, 0, , 1-6. | 1.7 | 3 |