

Zoltan Varga

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

1,120
citations

17
h-index

31
g-index

72
ext. papers

1,404
ext. citations

3.9
avg, IF

4.72
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 60 | Halogen acceptors in hydrogen bonding. <i>Coordination Chemistry Reviews</i> , 2006 , 250, 710-727 | 23.2 | 160 |
| 59 | Global ab initio ground-state potential energy surface of N ₄ . <i>Journal of Chemical Physics</i> , 2013 , 139, 044309 | 3.9 | 128 |
| 58 | An improved potential energy surface and multi-temperature quasiclassical trajectory calculations of N ₂ + N ₂ dissociation reactions. <i>Journal of Chemical Physics</i> , 2015 , 143, 054304 | 3.9 | 124 |
| 57 | Assessment of electronic structure methods for the determination of the ground spin states of Fe(ii), Fe(iii) and Fe(iv) complexes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13049-13069 | 3.6 | 72 |
| 56 | Potential energy surface of triplet N ₂ O ₂ . <i>Journal of Chemical Physics</i> , 2016 , 144, 024310 | 3.9 | 44 |
| 55 | Potential energy surfaces for O + O collisions. <i>Journal of Chemical Physics</i> , 2017 , 147, 154312 | 3.9 | 41 |
| 54 | Potential energy surfaces of quintet and singlet O. <i>Journal of Chemical Physics</i> , 2017 , 147, 034301 | 3.9 | 35 |
| 53 | Vibrational Energy Transfer and Collision-Induced Dissociation in O+O ₂ Collisions. <i>Journal of Thermophysics and Heat Transfer</i> , 2019 , 33, 797-807 | 1.3 | 28 |
| 52 | Global triplet potential energy surfaces for the N ₂ (X(1)∑ ⁺) + O((3)P) → NO(X(2)∑ ⁺) + N((4)S) reaction. <i>Journal of Chemical Physics</i> , 2016 , 144, 024309 | 3.9 | 28 |
| 51 | Potential energy surface of triplet O. <i>Journal of Chemical Physics</i> , 2018 , 148, 124314 | 3.9 | 27 |
| 50 | Theoretical study of the structure and bonding in ThC ₂ and UC ₂ . <i>Journal of Physical Chemistry A</i> , 2012 , 116, 747-55 | 2.8 | 24 |
| 49 | Quasilinear molecule par excellence, SrCl ₂ : structure from high-temperature gas-phase electron diffraction and quantum-chemical calculations--computed structures of SrCl ₂ .argon complexes. <i>Chemistry - A European Journal</i> , 2006 , 12, 8345-57 | 4.8 | 23 |
| 48 | Long-Range Effects in Oligopeptides. A Theoretical Study of the β-Sheet Structure of Glyn (n = 2∞0). <i>Journal of Physical Chemistry A</i> , 2004 , 108, 6869-6873 | 2.8 | 23 |
| 47 | On the effect of 4f electrons on the structural characteristics of lanthanide trihalides: computational and electron diffraction study of dysprosium trichloride. <i>Journal of Chemical Physics</i> , 2008 , 128, 074301 | 3.9 | 22 |
| 46 | Many-Body Permutationally Invariant Polynomial Neural Network Potential Energy Surface for N. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 4822-4832 | 6.4 | 18 |
| 45 | The elusive structure of CrCl(2): a combined computational and gas-phase electron-diffraction study. <i>Chemistry - A European Journal</i> , 2008 , 14, 5130-43 | 4.8 | 17 |
| 44 | Does the 4f electron configuration affect molecular geometries? A joint computational, vibrational spectroscopic, and electron diffraction study of dysprosium tribromide. <i>Inorganic Chemistry</i> , 2009 , 48, 4143-53 | 5.1 | 15 |

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| 43 | Multi-state pair-density functional theory. <i>Faraday Discussions</i> , 2020 , 224, 348-372 | 3.6 | 14 |
| 42 | Substituent effects on long-range interactions in the β -sheet structure of oligopeptides. <i>Computational and Theoretical Chemistry</i> , 2005 , 755, 247-251 | | 14 |
| 41 | Gas-phase structures of iron trihalides: a computational study of all iron trihalides and an electron diffraction study of iron trichloride. <i>Inorganic Chemistry</i> , 2010 , 49, 1039-45 | 5.1 | 12 |
| 40 | Molecular constants of aluminum monohalides: caveats for computations of simple inorganic molecules. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 6-8 | 2.8 | 12 |
| 39 | A quasiclassical trajectory study of the $N_2(X(1)\Sigma^+g) + O((3)P) \rightarrow NO(X(2)\Sigma^+g) + N((4)S)$ reaction. <i>Journal of Chemical Physics</i> , 2016 , 144, 234314 | 3.9 | 12 |
| 38 | Structure and other molecular properties of actinide trichlorides $AnCl_3$ ($An = Th-Cm$). <i>Journal of Physical Chemistry A</i> , 2013 , 117, 11357-63 | 2.8 | 11 |
| 37 | Quasiclassical Trajectory Analysis of the $N_2 + N_2$ Reaction Using a New Ab Initio Potential Energy Surface 2014 , | | 10 |
| 36 | Hydrogen bonding in peptide secondary structures. <i>International Journal of Quantum Chemistry</i> , 2005 , 105, 302-312 | 2.1 | 10 |
| 35 | On the thermal expansion of molecules. <i>Structural Chemistry</i> , 2011 , 22, 111-121 | 1.8 | 9 |
| 34 | Conservation of Angular Momentum in Direct Nonadiabatic Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1135-1140 | 6.4 | 8 |
| 33 | Hyper Open-Shell Excited Spin States of Transition-Metal Compounds: FeF , FeF_2 , Ethane, and FeF_2 -Ethylene. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 2563-2579 | 2.8 | 8 |
| 32 | Hyper Open-Shell States: The Lowest Excited Spin States of O Atom, Fe Ion, and FeF . <i>Journal of the American Chemical Society</i> , 2017 , 139, 12569-12578 | 16.4 | 8 |
| 31 | Comprehensive study of the structure of aluminum trihalides from electron diffraction and computation. <i>Structural Chemistry</i> , 2012 , 23, 879-893 | 1.8 | 8 |
| 30 | Iron dihalides: structures and thermodynamic properties from computation and an electron diffraction study of iron diiodide. <i>Structural Chemistry</i> , 2011 , 22, 327-336 | 1.8 | 8 |
| 29 | Is the Inversion of Phosphorus Trihalides (PF, PCl, PBr, and PI) a Diradical Process?. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 301-312 | 2.8 | 8 |
| 28 | Direct diabaticization based on nonadiabatic couplings: the N/D method. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 26643-26659 | 3.6 | 8 |
| 27 | Water Catalysis of the Reaction of Methanol with OH Radical in the Atmosphere is Negligible. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10826-10830 | 16.4 | 7 |
| 26 | Molecular geometry of vanadium dichloride and vanadium trichloride: a gas-phase electron diffraction and computational study. <i>Inorganic Chemistry</i> , 2010 , 49, 2816-21 | 5.1 | 7 |

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| 25 | Oviposition preferences of <i>Maculinea alcon</i> as influenced by aphid (<i>Aphis gentianae</i>) and fungal (<i>Puccinia gentianae</i>) infestation of larval host plants. <i>Ecological Entomology</i> , 2009 , 34, 90-97 | 2.1 | 7 |
| 24 | Vapor phase tin diiodide: its structure and thermodynamics, a computational study. <i>Structural Chemistry</i> , 2007 , 18, 641-648 | 1.8 | 7 |
| 23 | The NaDyBr ₄ complex; its molecular structure and thermodynamic properties. <i>Structural Chemistry</i> , 2006 , 17, 225-233 | 1.8 | 6 |
| 22 | Water Catalysis of the Reaction of Methanol with OH Radical in the Atmosphere is Negligible. <i>Angewandte Chemie</i> , 2020 , 132, 10918-10922 | 3.6 | 5 |
| 21 | On the thermal expansion of molecules: a sequel. <i>Structural Chemistry</i> , 2011 , 22, 1065-1066 | 1.8 | 5 |
| 20 | Curious matrix effects: a computational, electron diffraction, and vibrational spectroscopic study of dysprosium triiodide. <i>Dalton Transactions</i> , 2010 , 39, 6221-30 | 4.3 | 5 |
| 19 | Structures and thermodynamic properties of aluminum oxyhalides: a computational study. <i>Structural Chemistry</i> , 2008 , 19, 595-602 | 1.8 | 5 |
| 18 | Modification of Jet Structure in High-Multiplicity pp Collisions due to Multiple-Parton Interactions and Observing a Multiplicity-Independent Characteristic Jet Size. <i>Advances in High Energy Physics</i> , 2019 , 2019, 1-12 | 1 | 5 |
| 17 | Group 14 structural variations: perhalo derivatives of the dimetallenes-dicarbene, disilenes, digermenes, distannenes, and diplumbenes. <i>Structural Chemistry</i> , 2013 , 24, 837-850 | 1.8 | 4 |
| 16 | Permutationally Restrained Diabatization by Machine Intelligence. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 1106-1116 | 6.4 | 4 |
| 15 | Potential energy surfaces for high-energy N + O collisions. <i>Journal of Chemical Physics</i> , 2021 , 154, 084304.9 | | 4 |
| 14 | About the structure of CH ₅ ⁺ and structural variations in related systems. <i>Structural Chemistry</i> , 2017 , 28, 297-301 | 1.8 | 3 |
| 13 | Molecular structure and vibrational spectra of mixed MDyX ₄ (M = Li, Na, K, Rb, Cs; X = F, Cl, Br, I) vapor complexes: a computational and matrix-isolation infrared spectroscopic study. <i>Inorganic Chemistry</i> , 2012 , 51, 543-56 | 5.1 | 3 |
| 12 | Chemistry, commentary and community: Discussion of the NaDyBr ₄ complex: its molecular structure and thermodynamic properties by Varga and Hargittai. <i>Structural Chemistry</i> , 2007 , 18, 269-271 | 1.8 | 3 |
| 11 | Significant stacking effect between 2,4,6-triphenyl-1-phosphabenzene. <i>Structural Chemistry</i> , 2017 , 28, 1243-1253 | 1.8 | 2 |
| 10 | Jet Structure Studies in Small Systems. <i>Universe</i> , 2019 , 5, 132 | 2.5 | 2 |
| 9 | Multiplicity Dependence of the Jet Structures in pp Collisions at LHC Energies. <i>Proceedings (mdpi)</i> , 2019 , 10, 3 | 0.3 | 2 |
| 8 | Singlet-triplet competition in the low-lying energy states of C ₄ O ₄ S _n (n = 1B) molecules. <i>Structural Chemistry</i> , 2015 , 26, 1229-1240 | 1.8 | 2 |

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| 7 | Paradigms and paradoxes: the conformation of the fundamental unit of hyaluronic acid. <i>Structural Chemistry</i> , 2010 , 21, 1211-1214 | 1.8 | 2 |
| 6 | Production of pions, kaons, (anti-)protons and (ϕ) mesons in XeXe collisions at $\sqrt{s_{\mathrm{NN}}} = 5.44$ TeV. <i>European Physical Journal C</i> , 2021 , 81, 1 | 4.2 | 2 |
| 5 | B ₂ N ₂ O ₄ : Prediction of a Magnetic Ground State for a Light Main-Group Molecule. <i>Inorganic Chemistry</i> , 2015 , 54, 8552-9 | 5.1 | 1 |
| 4 | Potential energy surface for high-energy N + N collisions. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 26273-26284 | 3.6 | 1 |
| 3 | H ₂ O coordination in macrocyclic complexes of f elements (Ac, La, Lu): feasibility of the 11th coordination site. <i>Structural Chemistry</i> , 2021 , 32, 643-653 | 1.8 | 1 |
| 2 | Prompt D ₀ , D ⁺ , and D ^{*+} production in PbPb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1 | 5.4 | 1 |
| 1 | Metal-ligand interactions in complexes of cyclen-based ligands with Bi and Ac. <i>Structural Chemistry</i> , 2021 , 32, 1719-1731 | 1.8 | 0 |