

# Zoltan Varga

## List of Publications by Year in Descending Order

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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	Prompt D0, D+, and D*+ production in PbPb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , <b>2022</b> , 2022, 1	5.4	1
59	Potential energy surface for high-energy N + N collisions. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 26273-26284	3.6	1
58	Permutationally Restrained Diabatization by Machine Intelligence. <i>Journal of Chemical Theory and Computation</i> , <b>2021</b> , 17, 1106-1116	6.4	4
57	H2O coordination in macrocyclic complexes of f elements (Ac, La, Lu): feasibility of the 11th coordination site. <i>Structural Chemistry</i> , <b>2021</b> , 32, 643-653	1.8	1
56	Potential energy surfaces for high-energy N + O collisions. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 084304	3.9	4
55	Production of pions, kaons, (anti-)protons and ( $\phi$ ) mesons in XeXe collisions at ( $\sqrt{s_{\mathrm{NN}}}$ ) = 5.44 TeV. <i>European Physical Journal C</i> , <b>2021</b> , 81, 1	4.2	2
54	Metal-ligand interactions in complexes of cyclen-based ligands with Bi and Ac. <i>Structural Chemistry</i> , <b>2021</b> , 32, 1719-1731	1.8	0
53	Multi-state pair-density functional theory. <i>Faraday Discussions</i> , <b>2020</b> , 224, 348-372	3.6	14
52	Many-Body Permutationally Invariant Polynomial Neural Network Potential Energy Surface for N. <i>Journal of Chemical Theory and Computation</i> , <b>2020</b> , 16, 4822-4832	6.4	18
51	Water Catalysis of the Reaction of Methanol with OH Radical in the Atmosphere is Negligible. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 10918-10922	3.6	5
50	Water Catalysis of the Reaction of Methanol with OH Radical in the Atmosphere is Negligible. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 10826-10830	16.4	7
49	Conservation of Angular Momentum in Direct Nonadiabatic Dynamics. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1135-1140	6.4	8
48	Jet Structure Studies in Small Systems. <i>Universe</i> , <b>2019</b> , 5, 132	2.5	2
47	Multiplicity Dependence of the Jet Structures in pp Collisions at LHC Energies. <i>Proceedings (mdpi)</i> , <b>2019</b> , 10, 3	0.3	2
46	Vibrational Energy Transfer and Collision-Induced Dissociation in O+O2 Collisions. <i>Journal of Thermophysics and Heat Transfer</i> , <b>2019</b> , 33, 797-807	1.3	28
45	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> , <b>2019</b> , 2019, 1-12	1	5
44	Is the Inversion of Phosphorus Trihalides (PF, PCl, PBr, and PI) a Diradical Process?. <i>Journal of Physical Chemistry A</i> , <b>2019</b> , 123, 301-312	2.8	8

43	Hyper Open-Shell Excited Spin States of Transition-Metal Compounds: FeF, FeF <sub>2</sub> Ethane, and FeF <sub>2</sub> Ethylene. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 2563-2579	2.8	8
42	Potential energy surface of triplet O. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 124314	3.9	27
41	Direct diabaticization based on nonadiabatic couplings: the N/D method. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 26643-26659	3.6	8
40	About the structure of CH <sub>5</sub> + and structural variations in related systems. <i>Structural Chemistry</i> , <b>2017</b> , 28, 297-301	1.8	3
39	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> , <b>2017</b> , 19, 13049-13069	3.6	72
38	Significant $\pi$ -stacking effect between 2,4,6-triphenyl-1-phosphabenzene. <i>Structural Chemistry</i> , <b>2017</b> , 28, 1243-1253	1.8	2
37	Potential energy surfaces of quintet and singlet O. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 034301	3.9	35
36	Hyper Open-Shell States: The Lowest Excited Spin States of O Atom, Fe Ion, and FeF. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 12569-12578	16.4	8
35	Potential energy surfaces for O + O collisions. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 154312	3.9	41
34	A quasiclassical trajectory study of the N <sub>2</sub> (X(1) $\Sigma$ ) + O((3)P) $\rightarrow$ NO(X(2) $\Sigma$ ) + N((4)S) reaction. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 234314	3.9	12
33	Potential energy surface of triplet N <sub>2</sub> O <sub>2</sub> . <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 024310	3.9	44
32	Global triplet potential energy surfaces for the N <sub>2</sub> (X(1) $\Sigma$ ) + O((3)P) $\rightarrow$ NO(X(2) $\Sigma$ ) + N((4)S) reaction. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 024309	3.9	28
31	Singlet-Triplet competition in the low-lying energy states of C <sub>4</sub> O <sub>4</sub> S <sub>n</sub> (n = 1-3) molecules. <i>Structural Chemistry</i> , <b>2015</b> , 26, 1229-1240	1.8	2
30	B <sub>2</sub> N <sub>2</sub> O <sub>4</sub> : Prediction of a Magnetic Ground State for a Light Main-Group Molecule. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 8552-9	5.1	1
29	An improved potential energy surface and multi-temperature quasiclassical trajectory calculations of N <sub>2</sub> + N <sub>2</sub> dissociation reactions. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 054304	3.9	124
28	Quasiclassical Trajectory Analysis of the N <sub>2</sub> + N <sub>2</sub> Reaction Using a New Ab Initio Potential Energy Surface <b>2014</b> ,		10
27	Group 14 structural variations: perhalo derivatives of the dimetallenes-dicarbene, disilenes, digermenes, distannenes, and diplumbenes. <i>Structural Chemistry</i> , <b>2013</b> , 24, 837-850	1.8	4
26	Global ab initio ground-state potential energy surface of N <sub>4</sub> . <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 044309	3.9	128

25	Structure and other molecular properties of actinide trichlorides AnCl <sub>3</sub> (An = Th-Cm). <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 11357-63	2.8	11
24	Molecular structure and vibrational spectra of mixed MDyX <sub>4</sub> (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> , <b>2012</b> , 51, 543-56	5.1	3
23	Theoretical study of the structure and bonding in ThC <sub>2</sub> and UC <sub>2</sub> . <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 747-55	2.8	24
22	Comprehensive study of the structure of aluminum trihalides from electron diffraction and computation. <i>Structural Chemistry</i> , <b>2012</b> , 23, 879-893	1.8	8
21	On the thermal expansion of molecules. <i>Structural Chemistry</i> , <b>2011</b> , 22, 111-121	1.8	9
20	Iron dihalides: structures and thermodynamic properties from computation and an electron diffraction study of iron diiodide. <i>Structural Chemistry</i> , <b>2011</b> , 22, 327-336	1.8	8
19	On the thermal expansion of molecules: a sequel. <i>Structural Chemistry</i> , <b>2011</b> , 22, 1065-1066	1.8	5
18	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> , <b>2010</b> , 49, 1039-45	5.1	12
17	Molecular geometry of vanadium dichloride and vanadium trichloride: a gas-phase electron diffraction and computational study. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 2816-21	5.1	7
16	Curious matrix effects: a computational, electron diffraction, and vibrational spectroscopic study of dysprosium triiodide. <i>Dalton Transactions</i> , <b>2010</b> , 39, 6221-30	4.3	5
15	Paradigms and paradoxes: the conformation of the fundamental unit of hyaluronic acid. <i>Structural Chemistry</i> , <b>2010</b> , 21, 1211-1214	1.8	2
14	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> , <b>2009</b> , 34, 90-97	2.1	7
13	Does the 4f electron configuration affect molecular geometries? A joint computational, vibrational spectroscopic, and electron diffraction study of dysprosium tribromide. <i>Inorganic Chemistry</i> , <b>2009</b> , 48, 4143-53	5.1	15
12	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> , <b>2008</b> , 128, 074301	3.9	22
11	Structures and thermodynamic properties of aluminum oxyhalides: a computational study. <i>Structural Chemistry</i> , <b>2008</b> , 19, 595-602	1.8	5
10	The elusive structure of CrCl(2): a combined computational and gas-phase electron-diffraction study. <i>Chemistry - A European Journal</i> , <b>2008</b> , 14, 5130-43	4.8	17
9	Molecular constants of aluminum monohalides: caveats for computations of simple inorganic molecules. <i>Journal of Physical Chemistry A</i> , <b>2007</b> , 111, 6-8	2.8	12
8	Chemistry, commentary and community: Discussion of the NaDyBr <sub>4</sub> complex: its molecular structure and thermodynamic properties by Varga and Hargittai. <i>Structural Chemistry</i> , <b>2007</b> , 18, 269-271	1.8	3

7	Vapor phase tin diiodide: its structure and thermodynamics, a computational study. <i>Structural Chemistry</i> , <b>2007</b> , 18, 641-648	1.8	7
6	Quasilinear molecule par excellence, SrCl <sub>2</sub> : structure from high-temperature gas-phase electron diffraction and quantum-chemical calculations—computed structures of SrCl <sub>2</sub> .argon complexes. <i>Chemistry - A European Journal</i> , <b>2006</b> , 12, 8345-57	4.8	23
5	Halogen acceptors in hydrogen bonding. <i>Coordination Chemistry Reviews</i> , <b>2006</b> , 250, 710-727	23.2	160
4	The NaDyBr <sub>4</sub> complex; its molecular structure and thermodynamic properties. <i>Structural Chemistry</i> , <b>2006</b> , 17, 225-233	1.8	6
3	Substituent effects on long-range interactions in the $\beta$ -sheet structure of oligopeptides. <i>Computational and Theoretical Chemistry</i> , <b>2005</b> , 755, 247-251		14
2	Hydrogen bonding in peptide secondary structures. <i>International Journal of Quantum Chemistry</i> , <b>2005</b> , 105, 302-312	2.1	10
1	Long-Range Effects in Oligopeptides. A Theoretical Study of the $\beta$ -Sheet Structure of Glyn (n = 2-10). <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 6869-6873	2.8	23