

# Sergey A Varganov

## 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.

49  
papers

1,174  
citations

19  
h-index

33  
g-index

55  
ext. papers

1,317  
ext. citations

4.4  
avg, IF

4.51  
L-index

#	Paper	IF	Citations
49	NAST: Nonadiabatic Statistical Theory Package for Predicting Kinetics of Spin-Dependent Processes.. <i>Topics in Current Chemistry</i> , <b>2022</b> , 380, 15	7.2	2
48	NAST: Nonadiabatic Statistical Theory Package for Predicting Kinetics of Spin-Dependent Processes. <i>Topics in Current Chemistry Collections</i> , <b>2022</b> , 79-103	1.8	
47	Intersystem crossing and internal conversion dynamics with GAIMS-TeraChem: Excited state relaxation in 2-cyclopentenone. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 174107	3.9	3
46	Modeling Spin-Crossover Dynamics. <i>Annual Review of Physical Chemistry</i> , <b>2021</b> , 72, 515-540	15.7	7
45	Reaction Mechanisms of Anisole Pyrolysis at Different Temperatures: Experimental and Theoretical Studies. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 9994-10008	4.1	2
44	Intersystem crossing in tunneling regime: T- $\pi$ relaxation in thiophosgene. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 5500-5508	3.6	15
43	Spin controlled surface chemistry: alkyl desorption from Si(100)-2 $\times$ 1 by nonadiabatic hydrogen elimination. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 16641-16647	3.6	2
42	Full Visible Spectrum and White Light Emission with a Single, Input-Tunable Organic Fluorophore. <i>Journal of the American Chemical Society</i> , <b>2020</b> ,	16.4	9
41	Fluorescence and photoinduced proton transfer in the protolytic forms of fluorescein: Experimental and computational study. <i>Dyes and Pigments</i> , <b>2020</b> , 173, 107851	4.6	12
40	Locating Minimum Energy Crossings of Different Spin States Using the Fragment Molecular Orbital Method. <i>Journal of Chemical Theory and Computation</i> , <b>2019</b> , 15, 6074-6084	6.4	8
39	Enhanced spin coherence of rubidium atoms in solid parahydrogen. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	5
38	In Silico Molecular Engineering of Dysprosocenium-Based Complexes to Decouple Spin Energy Levels from Molecular Vibrations. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 7678-7683	6.4	20
37	Spin coherence and optical properties of alkali-metal atoms in solid parahydrogen. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	4
36	Electronic Transitions Responsible for C Diffuse Interstellar Bands. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 115-120	6.4	14
35	Lactate Racemase Nickel-Pincer Cofactor Operates by a Proton-Coupled Hydride Transfer Mechanism. <i>Biochemistry</i> , <b>2018</b> , 57, 3244-3251	3.2	23
34	Predicting Intersystem Crossing Rates with AIMS-DFT Molecular Dynamics. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 3480-3488	2.8	21
33	Ab initio calculations of spectroscopic constants and vibrational state lifetimes of diatomic alkali-alkaline-earth cations. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 124304	3.9	8

32	Chiral Peropyrene: Synthesis, Structure, and Properties. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 13102-13109	16.4	75
31	Spin-Forbidden Transitions between Electronic States in the Active Site of Rubredoxin. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 8691-8698	2.8	6
30	Nonadiabatic transition state theory: Application to intersystem crossings in the active sites of metal-sulfur proteins. <i>International Journal of Quantum Chemistry</i> , <b>2016</b> , 116, 750-761	2.1	51
29	Ab Initio Multiple Spawning Method for Intersystem Crossing Dynamics: Spin-Forbidden Transitions between (3)B1 and (1)A1 States of GeH2. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 2911-9	2.8	44
28	Static polarization of the supramolecular dyads of fullerene C60 with porphyrin derivatives. <i>Journal of Porphyrins and Phthalocyanines</i> , <b>2015</b> , 19, 838-844	1.8	1
27	3D Printed Potential and Free Energy Surfaces for Teaching Fundamental Concepts in Physical Chemistry. <i>Journal of Chemical Education</i> , <b>2015</b> , 92, 2106-2112	2.4	33
26	Effect of H2 binding on the nonadiabatic transition probability between singlet and triplet states of the [NiFe]-hydrogenase active site. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 1066-73	2.8	20
25	Nonadiabatic transition state theory and trajectory surface hopping dynamics: intersystem crossing between (3)B1 and (1)A1 states of SiH2. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 1332-8	2.8	33
24	Accurate potential energy, dipole moment curves, and lifetimes of vibrational states of heteronuclear alkali dimers. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 184315	3.9	21
23	A complex of ceftriaxone with Pb(II): synthesis, characterization, and antibacterial activity study. <i>Journal of Coordination Chemistry</i> , <b>2014</b> , 67, 2783-2794	1.6	9
22	SPIN-FORBIDDEN AND SPIN-ALLOWED CYCLOPROPENONE (c-H2C3O) FORMATION IN INTERSTELLAR MEDIUM. <i>Astrophysical Journal</i> , <b>2014</b> , 795, 173	4.7	10
21	Interfacing the Ab initio multiple spawning method with electronic structure methods in GAMESS: Photodecay of trans-azomethane. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 10902-8	2.8	25
20	Protein induced singlet-triplet quasidegeneracy in the active site of [NiFe]-hydrogenase. <i>Chemical Physics Letters</i> , <b>2013</b> , 577, 138-141	2.5	22
19	Septulene: the heptagonal homologue of kekulene. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 12795-800	16.4	54
18	Septulene: The Heptagonal Homologue of Kekulene. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 12967-12972	3.6	14
17	Innenr�ktitelbild: Septulene: The Heptagonal Homologue of Kekulene (Angew. Chem. 51/2012). <i>Angewandte Chemie</i> , <b>2012</b> , 124, 13071-13071	3.6	
16	Variational geminal-augmented multireference self-consistent field theory: two-electron systems. <i>Journal of Chemical Physics</i> , <b>2010</b> , 132, 054103	3.9	29
15	Resolutions of the Coulomb operator. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 201104	3.9	25

14	A generalized Poisson equation and short-range self-interaction energies. <i>Journal of Chemical Physics</i> , <b>2008</b> , 128, 241101	3.9	3
13	Scalable correlated electronic structure theory. <i>Journal of Physics: Conference Series</i> , <b>2006</b> , 46, 229-233	0.3	5
12	Effects of strong electron correlations in Ti8C12 Met-Car. <i>Chemical Physics</i> , <b>2006</b> , 326, 97-106	2.3	7
11	Predicted IR spectra of Ti8C12 and Ti8C12+. <i>Chemical Physics Letters</i> , <b>2006</b> , 429, 49-51	2.5	6
10	Where does the planar-to-nonplanar turnover occur in small gold clusters?. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 1049-52	16.4	198
9	The binding of the noble metal cations Au+ and Ag+ to propene. <i>Chemical Physics Letters</i> , <b>2005</b> , 412, 416-419	2.5	8
8	Multireference second-order perturbation theory: how size consistent is "almost size consistent". <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 44105	3.9	68
7	A study of the reactions of molecular hydrogen with small gold clusters. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 5169-75	3.9	90
6	Reply to a comment: oxygen adsorption on Au clusters by W.T. Wallace, A.J. Leavitt, and R.J. Whetten. <i>Chemical Physics Letters</i> , <b>2003</b> , 368, 778-779	2.5	14
5	The interaction of oxygen with small gold clusters. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 2531-2537	3.9	113
4	A study of the isomers of C36 fullerene using single and multireference MP2 perturbation theory. <i>Chemical Physics Letters</i> , <b>2002</b> , 362, 380-386	2.5	19
3	Possible scheme of synthesis-assembling of fullerenes. <i>Physics of the Solid State</i> , <b>2001</b> , 43, 973-981	0.8	9
2	Theoretical study of the toroidal forms of carbon and related endohedral complexes with lithium. <i>Physics of the Solid State</i> , <b>2001</b> , 43, 1982	0.8	4
1	Ab initio Calculations of the endo- and exohedral complexes of fullerene C60 with Zn atoms. <i>Journal of Structural Chemistry</i> , <b>2000</b> , 41, 687-691	0.9	3