

Victor Kostjukov

List of Publications by Year in descending order

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56
papers

501
citations

759233

12
h-index

713466

21
g-index

57
all docs

57
docs citations

57
times ranked

471
citing authors

#	ARTICLE	IF	CITATIONS
1	C60 fullerene aggregation in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 9351.	2.8	75
2	A nanocomplex of C ₆₀ fullerene with cisplatin: design, characterization and toxicity. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1494-1501.	2.8	41
3	Partition of thermodynamic energies of drug–DNA complexation. <i>Biopolymers</i> , 2009, 91, 773-790.	2.4	32
4	Parsing of the free energy of aromatic–aromatic stacking interactions in solution. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 1424-1434.	2.0	32
5	Comparative Analysis of the Antineoplastic Activity of C60 Fullerene with 5-Fluorouracil and Pyrrole Derivative In Vivo. <i>Nanoscale Research Letters</i> , 2017, 12, 8.	5.7	28
6	Evidence of entropically driven C60 fullerene aggregation in aqueous solution. <i>Journal of Chemical Physics</i> , 2014, 140, 104909.	3.0	25
7	Electrostatic contribution to the energy of binding of aromatic ligands with DNA. <i>Biopolymers</i> , 2008, 89, 680-690.	2.4	23
8	Energetics of ligand binding to the DNA minor groove. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5588.	2.8	21
9	Calculation of the electrostatic charges and energies for intercalation of aromatic drug molecules with DNA. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 711-721.	2.0	17
10	Indistinguishability of the models of molecular self-assembly. <i>Supramolecular Chemistry</i> , 2013, 25, 199-203.	1.2	15
11	Complexation of aromatic drugs with single-walled carbon nanotubes. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	14
12	Single-walled carbon nanotubes loaded hydroxyapatite–alginate beads with enhanced mechanical properties and sustained drug release ability. <i>Progress in Biomaterials</i> , 2020, 9, 1-14.	4.5	14
13	Study of the complexation between Landomycin A and C60 fullerene in aqueous solution. <i>RSC Advances</i> , 2016, 6, 81231-81236.	3.6	12
14	Contributions to the knowledge of tetrastichine wasps (Hymenoptera, Eulophidae, Tetrastichinae) of the Middle Volga Region. <i>Entomological Review</i> , 2007, 87, 1180-1192.	0.3	11
15	Vibronic absorption spectrum and electronic properties of methylene blue in aqueous solution: TD-DFT study. <i>Journal of Molecular Liquids</i> , 2021, 336, 116369.	4.9	9
16	Investigation of the complexation of the anti-cancer drug novantrone with the hairpin structure of the deoxyheptanucleotide 5'-d(GpCpGpApApGpC). <i>Journal of Molecular Structure</i> , 2007, 843, 78-86.	3.6	8
17	Relation between structure and enthalpy for stacking interactions of aromatic molecules. <i>Molecular Physics</i> , 2010, 108, 1941-1947.	1.7	8
18	Hydration change on complexation of aromatic ligands with DNA: molecular dynamics simulations. <i>Biopolymers and Cell</i> , 2010, 26, 36-44.	0.4	8

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19	Theoretical analysis of lactone and carboxylate forms of camptothecin in aqueous solution: Electronic states, absorption spectra, and hydration. <i>Journal of Molecular Liquids</i> , 2021, 344, 117804.	4.9	8
20	On the origin of the decrease in stability of the DNA hairpin d(GCGAAGC) on complexation with aromatic drugs. <i>Biophysical Chemistry</i> , 2007, 129, 56-59.	2.8	7
21	The vibronic absorption spectra and electronic states of acridine yellow in aqueous solution. <i>Journal of Molecular Liquids</i> , 2021, 326, 115312.	4.9	7
22	Relation between the change in DNA elasticity on ligand binding and the binding energetics. <i>Physical Review E</i> , 2012, 86, 031919.	2.1	6
23	Hydrophobic contribution to the free energy of complexation of aromatic ligands with DNA. <i>Biopolymers and Cell</i> , 2009, 25, 133-141.	0.4	6
24	Hexamer oligonucleotide topology and assembly under solution phase NMR and theoretical modeling scrutiny. <i>Biopolymers</i> , 2010, 93, 1023-1038.	2.4	5
25	The electronic states and vibronic absorption spectrum of berberine in aqueous solution. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26537.	2.0	5
26	The vibronic absorption spectra and electronic states of acridine orange in aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 249, 119302.	3.9	5
27	The vibronic absorption spectra and electronic states of proflavine in aqueous solution. <i>Computational and Theoretical Chemistry</i> , 2021, 1197, 113144.	2.5	5
28	TD-DFT/DFT study of thionine in aqueous solution: Vibronic absorption spectrum and electronic properties. <i>Optik</i> , 2021, 242, 167156.	2.9	5
29	The vibronic absorption spectrum and electronic properties of Azure B in aqueous solution: TD-DFT/DFT study. <i>Journal of Molecular Graphics and Modelling</i> , 2021, 107, 107964.	2.4	5
30	A revised treatment of the non-electrostatic contribution to the solvation free energy of DNA-binding ligands. <i>Journal of Molecular Liquids</i> , 2011, 163, 178-180.	4.9	4
31	Additional stabilization of hetero-complexes of aromatic molecules: H-bonds or charge-transfer?. <i>Journal of Molecular Structure</i> , 2011, 985, 403-406.	3.6	4
32	Excitation of rhodamine 800 in aqueous media: a theoretical investigation. <i>Journal of Molecular Modeling</i> , 2022, 28, 52.	1.8	4
33	Spectroscopic Study of Proflavine Adsorption on the Carbon Nanotube Surface. <i>Applied Spectroscopy</i> , 2014, 68, 232-237.	2.2	3
34	Dimerization Energetics of DNA Minor Groove Binders. <i>Ukrainian Journal of Physics</i> , 2014, 59, 461-472.	0.2	3
35	Photoexcitation of cresyl violet dye in aqueous solution: TD-DFT study. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1.	1.4	3
36	Calculation of the thermodynamic potentials of changes in translational, rotational, and vibrational degrees of freedom in the dimerization of aromatic molecules. <i>Russian Journal of Physical Chemistry B</i> , 2009, 3, 707-712.	1.3	2

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37	General features of the energetics of complex formation between ligand and nucleic acids. Biophysics (Russian Federation), 2014, 59, 546-551.	0.7	2
38	Energy analysis of non-covalent ligand binding to nucleic acids: Present and future. Biophysics (Russian Federation), 2014, 59, 552-555.	0.7	2
39	Interaction of pseudoephedrine and azithromycin with losartan: Spectroscopic, dissolution and permeation studies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 221, 117194.	3.9	2
40	Vibronic absorption spectrum and electronic properties of azure C in aqueous solution: TD-DFT study. Theoretical Chemistry Accounts, 2021, 140, 1.	1.4	2
41	Photoexcitation of methylene green dye in aqueous solution: TD-DFT study. Chemical Physics Letters, 2021, 785, 139152.	2.6	2
42	Photoexcitation of oxazine 170 dye in aqueous solution: TD-DFT study. Journal of Molecular Modeling, 2021, 27, 311.	1.8	2
43	The energetics of small molecules binding with nucleic acids. Journal of Chemical Thermodynamics, 2019, 139, 105887.	2.0	1
44	The Vibronic Absorption Spectrum and Electronic States of Nile Red in Aqueous Solution. ChemistrySelect, 2021, 6, 1297-1304.	1.5	1
45	<sc>TD-DFT</sc> absorption spectrum of Azure A in aqueous solution: Vibronic transitions and electronic properties. International Journal of Quantum Chemistry, 2021, 121, e26662.	2.0	1
46	Excited states of six oxazine 1 conformers in aqueous solution: TD-DFT/DFT study. Journal of Molecular Liquids, 2021, 341, 117456.	4.9	1
47	Photoexcitation of oxazine 4 dye in aqueous solution: TD-DFT study. Chemical Physics, 2022, 553, 111399.	1.9	1
48	Coumarin 102 excitation in aqueous media: contributions of vibronic coupling and hydration. New Journal of Chemistry, 2022, 46, 2441-2452.	2.8	1
49	Excitation of neutral red dye in aqueous media: comparative theoretical analysis of neutral and cationic forms. Journal of Molecular Modeling, 2022, 28, 103.	1.8	1
50	Acriflavine in aqueous solution: excitation and hydration. Journal of Molecular Modeling, 2022, 28, .	1.8	1
51	Optimal experiment design: Link between the concentration and the accuracy of estimation of aggregation parameters. Chemical Physics Letters, 2016, 664, 133-137.	2.6	0
52	Molecular Modeling-Based Energy Analysis of Dimeric Binding of Ligands to the Minor DNA Groove. Biophysics (Russian Federation), 2017, 62, 876-884.	0.7	0
53	Structural characteristics of intercalation complex of deoxyheptanucleotide hairpin d(GCGAAGC) with anthracycline antibiotic daunomycin. Biopolymers and Cell, 2006, 22, 339-349.	0.4	0
54	Vibronic absorption spectra and excited states of acridine red dye in aqueous solution: TD-DFT/DFT study. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2022, 77, 207-215.	1.5	0

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55	Coumarin 343 in aqueous solution: theoretical analysis of absorption. Journal of Molecular Modeling, 2022, 28, 126.	1.8	0
56	Contributions of conformations, vibronic coupling, and hydration to photoexcitation of coumarin 334 in aqueous solution. Chemical Papers, 0, , .	2.2	0