Valery V Andrushchenko

List of Publications by Year
in descending order

58	1,681	293460	325983
papers	citations	24 h-index	40 g-index

59	59	59	2150
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Natural and magnetic circular dichroism spectra of nucleosides: effect of the dynamics and environment. RSC Advances, 2021, 11, 8411-8419.	1.7	4
2	Origins of Optical Activity in an Oxo-Helicene: Experimental and Computational Studies. ACS Omega, 2021, 6, 2420-2428.	1.6	18
3	Insight into the Mechanism of Action and Peptideâ€Membrane Interactions of Aibâ€Rich Peptides: Multitechnique Experimental and Theoretical Analysis. ChemBioChem, 2021, 22, 1656-1667.	1.3	11
4	Complexation and stability of the fungicide penconazole in the presence of zinc and copper ions. Rapid Communications in Mass Spectrometry, 2020, 34, e8714.	0.7	8
5	Characterization of Eight Novel Spiroleptosphols from Fusarium avenaceum. Molecules, 2019, 24, 3498.	1.7	5
6	Eu3+ as a luminescence probe in DNA studies: Structural and conformational implications. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 213, 456-462.	2.0	9
7	Influence of the hydrophobic domain on the self-assembly and hydrogen bonding of hydroxy-amphiphiles. Physical Chemistry Chemical Physics, 2019, 21, 11242-11258.	1.3	7
8	Europium (III) as a Circularly Polarized Luminescence Probe of DNA Structure. Scientific Reports, 2019, 9, 1068.	1.6	30
9	Insight into vibrational circular dichroism of proteins by density functional modeling. Physical Chemistry Chemical Physics, 2018, 20, 4926-4935.	1.3	48
10	Optically Active Vibrational Spectroscopy of Î±â€Aminoisobutyric Acid Foldamers in Organic Solvents and Phospholipid Bilayers. Chemistry - A European Journal, 2018, 24, 9399-9408.	1.7	18
11	Identification of Lanthanide(III) Luminophores in Magnetic Circularly Polarized Luminescence Using Raman Optical Activity Instrumentation. Analytical Chemistry, 2017, 89, 5043-5049.	3.2	44
12	Dipolar molecules inside C₇₀: an electric field-driven room-temperature single-molecule switch. Physical Chemistry Chemical Physics, 2016, 18, 32673-32677.	1.3	49
13	Interaction of Zn2+Ions with Single-Stranded PolyU and PolyC in Neutral Solutions. Journal of Physical Chemistry B, 2015, 119, 4409-4416.	1.2	1
14	Vibrational Properties of the Phosphate Group Investigated by Molecular Dynamics and Density Functional Theory. Journal of Physical Chemistry B, 2015, 119, 10682-10692.	1.2	23
15	Hybridization of Homopolynucleotides with Different Base Ordering on the Carbon Nanotube Surface. Journal of Physical Chemistry C, 2015, 119, 11991-12001.	1.5	4
16	Interaction of water with oxyethylated derivatives of glycerol. , 2014, , .		0
17	Magnetic Circular Dichroism of Porphyrin Lanthanide M³⁺ Complexes. Chirality, 2014, 26, 655-662.	1.3	19
18	Metallization of Single-Stranded PolyI by Zn2+ Ions in Neutral Solutions. Journal of Physical Chemistry B, 2014, 118, 12360-12365.	1.2	0

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19	Effect of Zn2+ and temperature on the conformational equilibrium of single-stranded polyA in neutral solutions. International Journal of Biological Macromolecules, 2013, 61, 448-452.	3.6	4
20	Specific features of Zn2+, Co2+ and Ni2+ ion binding to DNA in alkaline solutions. International Journal of Biological Macromolecules, 2013, 55, 137-141.	3.6	4
21	Determination of Absolute Configuration and Conformation of a Cyclic Dipeptide by NMR and Chiral Spectroscopic Methods. Journal of Physical Chemistry A, 2013, 117, 1721-1736.	1.1	59
22	Communication: Fullerene resolution by the magnetic circular dichroism. Journal of Chemical Physics, 2013, 138, 151103.	1.2	19
23	Porphyrin Protonation Studied by Magnetic Circular Dichroism. Journal of Physical Chemistry A, 2012, 116, 778-783.	1.1	32
24	DNA conformational equilibrium in the presence of Zn2+ ions in neutral and alkaline solutions. International Journal of Biological Macromolecules, 2012, 50, 854-860.	3.6	11
25	Divalent metal ion effect on helixâ€“coil transition of high molecular weight DNA in neutral and alkaline solutions. International Journal of Biological Macromolecules, 2011, 48, 369-374.	3.6	6
26	Spectroscopic Detection of DNA Quadruplexes by Vibrational Circular Dichroism. Journal of the American Chemical Society, 2011, 133, 15055-15064.	6.6	50
27	A spectroscopic method to estimate the binding potency of amphiphile assemblies. Analytical and Bioanalytical Chemistry, 2010, 398, 1109-1123.	1.9	7
28	Applications of the Cartesian coordinate tensor transfer technique in the simulations of vibrational circular dichroism spectra of oligonucleotides. Chirality, 2010, 22, E96-E114.	1.3	26
29	Solvent Dependence of theN-Methylacetamide Structure and Force Field. Journal of Physical Chemistry A, 2009, 113, 9727-9736.	1.1	29
30	Infrared Absorption Detection of Metal Ion-Deoxyguanosine Monophosphate Binding: Experimental and Theoretical Study. Journal of Physical Chemistry B, 2009, 113, 283-291.	1.2	35
31	Circular dichroism enhancement in large DNA aggregates simulated by a generalized oscillator model. Journal of Computational Chemistry, 2008, 29, 2693-2703.	1.5	23
32	Thermodynamics of the interactions of tryptophan-rich cathelicidin antimicrobial peptides with model and natural membranes. Biochimica Et Biophysica Acta - Biomembranes, 2008, 1778, 1004-1014.	1.4	76
33	Interactions of tryptophan-rich cathelicidin antimicrobial peptides with model membranes studied by differential scanning calorimetry. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2447-2458.	1.4	56
34	DNA Oligonucleotideâ”cis-Platin Binding:Â Ab Initio Interpretation of the Vibrational Spectra. Journal of Physical Chemistry A, 2007, 111, 9714-9723.	1.1	33
35	Optimization of the hydrochloric acid concentration used for trifluoroacetate removal from synthetic peptides. Journal of Peptide Science, 2007, 13, 37-43.	0.8	95
36	Solvent-dependent structure of two tryptophan-rich antimicrobial peptides and their analogs studied by FTIR and CD spectroscopy. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 1596-1608.	1.4	67

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37	Characterization of TonB Interactions with the FepA Cork Domain and FecA N-terminal Signaling Domain. BioMetals, 2006, 19, 127-142.	1.8	16
38	Vibrational circular dichroism signature of hemiprotonated intercalated four-stranded i-DNA. Biophysical Chemistry, 2006, 119, 1-6.	1.5	15
39	Intercalation of daunomycin into d(CG)4 oligomer duplex containing GÂ·T mismatches by vibrational circular dichroism and infrared absorption spectroscopy. Biopolymers, 2006, 82, 189-198.	1.2	2
40	The effect of manganese(II) on the structure of DNA/HMGB1/H1 complexes: Electronic and vibrational circular dichroism studies. Biopolymers, 2006, 83, 182-192.	1.2	19
41	Isotope-labeled vibrational circular dichroism studies of calmodulin and its interactions with ligands. Biopolymers, 2005, 79, 231-237.	1.2	10
42	Simulations of Structure and Vibrational Spectra of Deoxyoctanucleotides. Journal of Physical Chemistry B, 2005, 109, 20579-20587.	1.2	27
43	The effect of manganese(II) on DNA structure: electronic and vibrational circular dichroism studies. Nucleic Acids Research, 2004, 32, 989-996.	6.5	128
44	The Effect of Ca2+Ions on DNA Compaction in the Complex with HMGB1 Nonhistone Chromosomal Protein. Molecular Biology, 2004, 38, 590-600.	0.4	7
45	RNA Structural Forms Studied by Vibrational Circular Dichroism:Â Ab Initio Interpretation of the Spectra. Journal of Physical Chemistry B, 2004, 108, 3899-3911.	1.2	29
46	DNA interaction with Mn2+ ions at elevated temperatures: VCD evidence of DNA aggregation. Biopolymers, 2003, 69, 529-545.	1.2	39
47	Vibrational circular dichroism and IR absorption of DNA complexes with Cu2+ ions. Biopolymers, 2003, 72, 374-390.	1.2	76
48	Vibrational circular dichroism spectroscopy and the effects of metal ions on DNA structure. Journal of Molecular Structure, 2003, 661-662, 541-560.	1.8	24
49	Poly(rA) â€¢ Poly(rU) with Ni²⁺Ions at Different Temperatures: Infrared Absorption and Vibrational Circular Dichroism Spectroscopy. Journal of Biomolecular Structure and Dynamics, 2002, 19, 889-906.	2.0	29
50	Vibrational CD (VCD) and atomic force microscopy (AFM) study of DNA interaction with Cr3+ ions: VCD and AFM evidence of DNA condensation. Biopolymers, 2002, 61, 243-260.	1.2	121
51	Bâ”Z Conformational Transition of DNA Monitored by Vibrational Circular Dichroism. Ab Initio Interpretation of the Experiment. Journal of Physical Chemistry B, 2002, 106, 12623-12634.	1.2	53
52	Determining structures of polymeric molecules by vibrational circular dichroism (VCD) spectroscopy. Vibrational Spectroscopy, 2000, 22, 101-109.	1.2	14
53	Interaction of deoxyribo-oligonucleotides with divalent manganese ions: comparison of vibrational circular dichroism and absorption spectroscopy. Vibrational Spectroscopy, 1999, 19, 341-345.	1.2	13
54	Complexes of (dG-dC)₂₀with Mn²⁺Ions: A Study by Vibrational Circular Dichroism and Infrared Absorption Spectroscopy. Journal of Biomolecular Structure and Dynamics, 1999, 17, 545-560.	2.0	24

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55	Study of Ca2+, Mn2+ and Cu2+ binding to DNA in solution by means of IR spectroscopy. Journal of Molecular Structure, 1997, 408-409, 229-232.	1.8	60
56	Vibrational spectroscopic studies of the divalent metal ion effect on DNA structural transitions. Journal of Molecular Structure, 1997, 408-409, 219-223.	1.8	20
57	IR-spectroscopic studies of divalent metal ion effects on DNA hydration. Journal of Molecular Structure, 1997, 408-409, 225-228.	1.8	24
58	Phosphineâ€“borane catalysts for CO₂ activation and reduction: a computational study. Molecular Physics, 0, , .	0.8	1