

# Tigran V Chalikian

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7360777/tigran-v-chalikian-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

86  
papers

4,079  
citations

36  
h-index

62  
g-index

91  
ext. papers

4,278  
ext. citations

5.1  
avg, IF

5.7  
L-index

#	Paper	IF	Citations
86	Volumetric Interplay between the Conformational States Adopted by Guanine-Rich DNA from the c-MYC Promoter. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 7406-7416	3.4	5
85	Does the release of hydration water come with a Gibbs energy contribution?. <i>Journal of Chemical Thermodynamics</i> , <b>2021</b> , 158, 106409	2.9	3
84	Volumetric Properties of Four-Stranded DNA Structures. <i>Biology</i> , <b>2021</b> , 10,	4.9	5
83	Conformational Preferences of DNA Strands from the Promoter Region of the c-MYC Oncogene. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 751-762	3.4	7
82	Duplex-tetraplex equilibria in guanine- and cytosine-rich DNA. <i>Biophysical Chemistry</i> , <b>2020</b> , 267, 106473	3.5	12
81	On urea and temperature dependences of m-values. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 215103	3.9	6
80	On empirical decomposition of volumetric data. <i>Biophysical Chemistry</i> , <b>2019</b> , 246, 8-15	3.5	15
79	Probing the Ionic Atmosphere and Hydration of the c-MYC i-Motif. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 2229-2238	16.4	20
78	Binding of l-Argininamide to a DNA Aptamer: A Volumetric Study. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 7647-7653	3.4	4
77	Effect of Urea on G-Quadruplex Stability. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 6511-6519	3.4	15
76	Effect of urea on protein-ligand association. <i>Biophysical Chemistry</i> , <b>2017</b> , 231, 15-19	3.5	3
75	Volumetrically Derived Thermodynamic Profile of Interactions of Urea with a Native Protein. <i>Biochemistry</i> , <b>2016</b> , 55, 6475-6483	3.2	4
74	Ionic Effects on VEGF G-Quadruplex Stability. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 4963-71	3.4	16
73	Excluded volume contribution to cosolvent-mediated modulation of macromolecular folding and binding reactions. <i>Biophysical Chemistry</i> , <b>2016</b> , 209, 1-8	3.5	12
72	Thermodynamic linkage analysis of pH-induced folding and unfolding transitions of i-motifs. <i>Biophysical Chemistry</i> , <b>2016</b> , 216, 19-22	3.5	12
71	Driving Forces in Pressure-Induced Protein Transitions. <i>Sub-Cellular Biochemistry</i> , <b>2015</b> , 72, 41-58	5.5	3
70	Effects of Salt on the Stability of a G-Quadruplex from the Human c-MYC Promoter. <i>Biochemistry</i> , <b>2015</b> , 54, 3420-30	3.2	33

69	Interactions of urea with native and unfolded proteins: a volumetric study. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 13554-63	3.4	15
68	Effect of cosolvent on protein stability: a theoretical investigation. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 22D504	3.9	18
67	Hydration changes accompanying helix-to-coil DNA transitions. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 4040-7	16.4	44
66	CHAPTER 21: Partial Molar Volumes of Proteins in Solution <b>2014</b> , 542-574		1
65	Folding thermodynamics of the hybrid-1 type intramolecular human telomeric G-quadruplex. <i>Biopolymers</i> , <b>2014</b> , 101, 216-27	2.2	15
64	Polyelectrolyte effects in G-quadruplexes. <i>Biophysical Chemistry</i> , <b>2013</b> , 184, 95-100	3.5	17
63	Interactions of glycine betaine with proteins: insights from volume and compressibility measurements. <i>Biochemistry</i> , <b>2013</b> , 52, 672-80	3.2	20
62	Ultrasonic and densimetric characterization of the association of cyclic AMP with the cAMP-binding domain of the exchange protein EPAC1. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 10779-84	3.4	13
61	Size dependence of cavity volume: a molecular dynamics study. <i>Biophysical Chemistry</i> , <b>2012</b> , 161, 46-9	3.5	25
60	Volumetric characterization of tri-N-acetylglucosamine binding to lysozyme. <i>Biochemistry</i> , <b>2012</b> , 51, 5784-90	3.5	27
59	Volumetric characterization of sodium-induced G-quadruplex formation. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 4518-26	16.4	68
58	Parsing partial molar volumes of small molecules: a molecular dynamics study. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 4856-62	3.4	36
57	Volumetric characterization of interactions of glycine betaine with protein groups. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 11481-9	3.4	14
56	Volumetric measurements in binary solvents: theory to experiment. <i>Biophysical Chemistry</i> , <b>2011</b> , 156, 3-12	3.5	42
55	Urea interactions with protein groups: a volumetric study. <i>Biopolymers</i> , <b>2010</b> , 93, 866-79	2.2	41
54	Effects of buffer ionization in protein transition volumes. <i>Biophysical Chemistry</i> , <b>2010</b> , 148, 144-7	3.5	15
53	Origins of pressure-induced protein transitions. <i>Journal of Molecular Biology</i> , <b>2009</b> , 394, 834-42	6.5	45
52	Volumetric properties of solvation in binary solvents. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 2443-50	3.4	23

51	On the molecular origins of volumetric data. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 911-7	3.4	32
50	Gamma-cyclodextrin forms a highly compressible complex with 1-adamantanecarboxylic acid. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 9546-9	3.4	12
49	Partial molar volumes and adiabatic compressibilities of unfolded protein states. <i>Biophysical Chemistry</i> , <b>2008</b> , 134, 185-99	3.5	42
48	Nucleic acid hydration: a volumetric perspective. <i>Physics of Life Reviews</i> , <b>2007</b> , 4, 91-115	2.1	38
47	Hydrophobic hydration in cyclodextrin complexation. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 12222-4	3.4	33
46	Stability of DNA duplexes containing GG, CC, AA, and TT mismatches. <i>Biochemistry</i> , <b>2006</b> , 45, 10563-71	3.2	68
45	Probing the transition state ensemble of a protein folding reaction by pressure-dependent NMR relaxation dispersion. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 5262-9	16.4	41
44	Thermodynamics of interactions of water-soluble porphyrins with RNA duplexes. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 1914-21	16.4	54
43	Association of the minor groove binding drug Hoechst 33258 with d(CGCGAATTCGCG) <sub>2</sub> : volumetric, calorimetric, and spectroscopic characterizations. <i>Biochemistry</i> , <b>2005</b> , 44, 9785-94	3.2	66
42	Compressibility changes accompanying conformational transitions of apomyoglobin. <i>Biopolymers</i> , <b>2005</b> , 79, 218-29	2.2	18
41	Energetics of nucleic acid stability: the effect of DeltaCP. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 16387-94	16.4	52
40	Salt-induced oligomerization of partially folded intermediates of equinatoxin II. <i>Biochemistry</i> , <b>2004</b> , 43, 9536-45	3.2	14
39	Binding of bovine pancreatic trypsin inhibitor to trypsinogen: spectroscopic and volumetric studies. <i>Biochemistry</i> , <b>2004</b> , 43, 1315-22	3.2	18
38	Probing hydration of monovalent cations condensed around polymeric nucleic acids. <i>Journal of Molecular Biology</i> , <b>2004</b> , 341, 551-63	6.5	24
37	Volumetric characterization of homopolymeric amino acids. <i>Biopolymers</i> , <b>2003</b> , 70, 563-74	2.2	15
36	Hydrophobic tendencies of polar groups as a major force in molecular recognition. <i>Biopolymers</i> , <b>2003</b> , 70, 492-6	2.2	25
35	Volumetric effects of ionization of amino and carboxyl termini of alpha,omega-aminocarboxylic acids. <i>Biophysical Chemistry</i> , <b>2003</b> , 104, 21-36	3.5	16
34	How large are the volume changes accompanying protein transitions and binding?. <i>Biophysical Chemistry</i> , <b>2003</b> , 104, 489-99	3.5	54

33	Volume and compressibility changes accompanying thermally-induced native-to-unfolded and molten globule-to-unfolded transitions of cytochrome c: a high pressure study. <i>Biochemistry</i> , <b>2003</b> , 42, 8671-8	3.2	21
32	Volumetric properties of proteins. <i>Annual Review of Biophysics and Biomolecular Structure</i> , <b>2003</b> , 32, 207-35		273
31	Hydration changes accompanying nucleic acid intercalation reactions: volumetric characterizations. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 7219-29	16.4	30
30	The thermodynamics of protein-protein recognition as characterized by a combination of volumetric and calorimetric techniques: the binding of turkey ovomucoid third domain to alpha-chymotrypsin. <i>Journal of Molecular Biology</i> , <b>2003</b> , 326, 1271-88	6.5	33
29	Volumetric and spectroscopic characterizations of glucose-hexokinase association. <i>FEBS Letters</i> , <b>2003</b> , 554, 351-6	3.8	18
28	Compressibility of protein transitions. <i>BBA - Proteins and Proteomics</i> , <b>2002</b> , 1595, 48-70		131
27	Acid- and base-induced conformational transitions of equinatoxin II. <i>Biophysical Chemistry</i> , <b>2001</b> , 90, 103-21	3.5	10
26	Volumetric characterization of the hydration properties of heterocyclic bases and nucleosides. <i>Biophysical Chemistry</i> , <b>2001</b> , 92, 209-27	3.5	35
25	On the stability of double stranded nucleic acids. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 9254-9	16.4	77
24	Characterization of pH-induced transitions of beta-lactoglobulin: ultrasonic, densimetric, and spectroscopic studies. <i>Journal of Molecular Biology</i> , <b>2001</b> , 314, 873-89	6.5	182
23	Structural Thermodynamics of Hydration. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 12566-12578	3.4	115
22	Volumetric and spectroscopic characterizations of the native and acid-induced denatured states of staphylococcal nuclease. <i>Journal of Molecular Biology</i> , <b>2000</b> , 299, 827-42	6.5	40
21	Role of Water in Protein-Ligand Interactions: Volumetric Characterization of the Binding of 2ECMP and 3ECMP to Ribonuclease A. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 390-401	3.4	48
20	Differential Hydration of $\alpha$ -Aminocarboxylic Acids in D <sub>2</sub> O and H <sub>2</sub> O. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 7860-7868	16.4	18
19	The hydration of nucleic acid duplexes as assessed by a combination of volumetric and structural techniques. <i>Biopolymers</i> , <b>1999</b> , 50, 459-71	2.2	74
18	Partial Molar Volumes and Adiabatic Compressibilities of a Series of Aliphatic Amino Acids and Oligoglycines in D <sub>2</sub> O. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 1156-1163	16.4	55
17	Interaction of the pore-forming protein equinatoxin II with model lipid membranes: A calorimetric and spectroscopic study. <i>Biochemistry</i> , <b>1999</b> , 38, 14999-5008	3.2	47
16	Volumetric properties of nucleic acids. <i>Biopolymers</i> , <b>1998</b> , 48, 264-280	2.2	17

15	Hydration of diglycyl tripeptides with non-polar side chains: a volumetric study. <i>Biophysical Chemistry</i> , <b>1998</b> , 75, 57-71	3.5	24
14	Thermodynamic analysis of biomolecules: a volumetric approach. <i>Current Opinion in Structural Biology</i> , <b>1998</b> , 8, 657-64	8.1	110
13	Ultrasonic and Densimetric Characterizations of the Hydration Properties of Polar Groups in Monosaccharides. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 6921-6926	3.4	62
12	Volumetric properties of nucleic acids. <i>Biopolymers</i> , <b>1998</b> , 48, 264-80	2.2	65
11	The native and the heat-induced denatured states of alpha-chymotrypsinogen A: thermodynamic and spectroscopic studies. <i>Journal of Molecular Biology</i> , <b>1997</b> , 274, 237-52	6.5	72
10	On volume changes accompanying conformational transitions of biopolymers. <i>Biopolymers</i> , <b>1996</b> , 39, 619-26	2.2	164
9	The hydration of globular proteins as derived from volume and compressibility measurements: cross correlating thermodynamic and structural data. <i>Journal of Molecular Biology</i> , <b>1996</b> , 260, 588-603	6.5	252
8	Volumetric characterizations of the native, molten globule and unfolded states of cytochrome c at acidic pH. <i>Journal of Molecular Biology</i> , <b>1995</b> , 250, 291-306	6.5	126
7	Hydration and partial compressibility of biological compounds. <i>Biophysical Chemistry</i> , <b>1994</b> , 51, 89-107; discussion 107-9	3.5	223
6	Partial molar volumes, expansibilities, and compressibilities of oligoglycines in aqueous solutions at 18B5°C. <i>Biopolymers</i> , <b>1994</b> , 34, 541-553	2.2	71
5	Partial molar characteristics of glycine and alanine in aqueous solutions at high pressures calculated from ultrasonic velocity data. <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 321-328		44
4	Influence of base composition, base sequence, and duplex structure on DNA hydration: apparent molar volumes and apparent molar adiabatic compressibilities of synthetic and natural DNA duplexes at 25 degrees C. <i>Biochemistry</i> , <b>1994</b> , 33, 2394-401	3.2	110
3	Influence of drug binding on DNA hydration: acoustic and densimetric characterizations of netropsin binding to the poly(dAdT).poly(dAdT) and poly(dA).poly(dT) duplexes and the poly(dT).poly(dA).poly(dT) triplex at 25 degrees C. <i>Biochemistry</i> , <b>1994</b> , 33, 8629-40	3.2	98
2	Partial molar volumes, expansibilities, and compressibilities of .alpha.,.omega.-aminocarboxylic acids in aqueous solutions between 18 and 55.degree.C. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 13017-13026		157
1	Nucleic Acids: Hydration1		