Irina Nesmelova

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Galectin-1 is essential in tumor angiogenesis and is a target for antiangiogenesis therapy. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15975-15980.	7.1	424
2	Disrupting functional interactions between platelet chemokines inhibits atherosclerosis in hyperlipidemic mice. Nature Medicine, 2009, 15, 97-103.	30.7	404
3	Antitumor Agent Calixarene 0118 Targets Human Galectin-1 as an Allosteric Inhibitor of Carbohydrate Binding. Journal of Medicinal Chemistry, 2012, 55, 5121-5129.	6.4	113
4	Platelet factor 4 promotes adhesion of hematopoietic progenitor cells and binds IL-8: novel mechanisms for modulation of hematopoiesis. Blood, 2003, 101, 4687-4694.	1.4	103
5	Lactose Binding to Galectin-1 Modulates Structural Dynamics, Increases Conformational Entropy, and Occurs with Apparent Negative Cooperativity. Journal of Molecular Biology, 2010, 397, 1209-1230.	4.2	95
6	Platelet Factor 4 and Interleukin-8 CXC Chemokine Heterodimer Formation Modulates Function at the Quaternary Structural Level. Journal of Biological Chemistry, 2005, 280, 4948-4958.	3.4	86
7	Intermittent hypoxia leads to functional reorganization of mitochondria and affects cellular bioenergetics in marine molluscs. Journal of Experimental Biology, 2016, 219, 1659-1674.	1.7	82
8	Generalized concentration dependence of globular protein self-diffusion coefficients in aqueous solutions. Biopolymers, 2002, 63, 132-140.	2.4	69
9	DDE transposases: Structural similarity and diversity. Advanced Drug Delivery Reviews, 2010, 62, 1187-1195.	13.7	66
10	CXC and CC Chemokines Form Mixed Heterodimers. Journal of Biological Chemistry, 2008, 283, 24155-24166.	3.4	65
11	Design of a Partial Peptide Mimetic of Anginex with Antiangiogenic and Anticancer Activity. Journal of Biological Chemistry, 2003, 278, 45746-45752.	3.4	62
12	Topomimetics of Amphipathic \hat{l}^2 -Sheet and Helix-Forming Bactericidal Peptides Neutralize Lipopolysaccharide Endotoxins. Journal of Medicinal Chemistry, 2006, 49, 7754-7765.	6.4	56
13	The carbohydrate-binding domain on galectin-1 is more extensive for a complex glycan than for simple saccharides: implications for galectin–glycan interactions at the cell surface. Biochemical Journal, 2009, 421, 211-221.	3.7	55
14	Structural aspects of binding of α-linked digalactosides to human galectin-1. Glycobiology, 2011, 21, 1627-1641.	2.5	43
15	Lactose binding to human galectin-7 (p53-induced gene 1) induces long-range effects through the protein resulting in increased dimer stability and evidence for positive cooperativity. Glycobiology, 2013, 23, 508-523.	2.5	42
16	Plant Defensins from a Structural Perspective. International Journal of Molecular Sciences, 2020, 21, 5307.	4.1	42
17	Self-diffusion and self-association of lysozyme molecules in solution. BBA - Proteins and Proteomics, 1998, 1383, 311-316.	2.1	36
18	Heat Capacities and a Snapshot of the Energy Landscape in Protein GB1 from the Pre-denaturation Temperature Dependence of Backbone NH Nanosecond Fluctuations. Journal of Molecular Biology, 2003, 325, 149-162.	4.2	36

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19	1H, 13C, and 15N backbone and side-chain chemical shift assignments for the 29ÂkDa human galectin-1 protein dimer. Biomolecular NMR Assignments, 2008, 2, 203-205.	0.8	32
20	The Nociceptin Pharmacophore Site for Opioid Receptor Binding Derived from the NMR Structure and Bioactivity Relationships. Journal of Biological Chemistry, 2005, 280, 8134-8142.	3.4	27
21	Cloning an artificial gene encoding angiostatic anginex: From designed peptide to functional recombinant protein. Biochemical and Biophysical Research Communications, 2005, 333, 1261-1268.	2.1	25
22	The heterodimerization of platelet-derived chemokines. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 158-168.	2.3	25
23	Experimental Evolution Generates Novel Oncolytic Vesicular Stomatitis Viruses with Improved Replication in Virus-Resistant Pancreatic Cancer Cells. Journal of Virology, 2020, 94, .	3.4	25
24	Discovery and development of anti-angiogenic peptides: A structural link. Angiogenesis, 2003, 6, 83-91.	7.2	23
25	Spectroscopic Characterization of Molecular Aggregates in Solutions: Impact on Crystallization of Indomethacin Polymorphs from Acetonitrile and Ethanol. Crystal Growth and Design, 2011, 11, 2368-2378.	3.0	23
26	Conformational Exchange on the Microsecond Time Scale in α-Helix and β-Hairpin Peptides Measured by13C NMR Transverse Relaxationâ€. Biochemistry, 2001, 40, 2844-2853.	2.5	18
27	Comparison of13CαH and15NH backbone dynamics in protein GB1. Protein Science, 2003, 12, 914-922.	7.6	16
28	Understanding Galectin Structure–Function Relationships to Design Effective Antagonists. , 0, , 33-69.		15
29	1H, 13C, and 15N backbone and side-chain chemical shift assignments for the 31ÅkDa human galectin-7 (p53-induced gene 1) homodimer, a pro-apoptotic lectin. Biomolecular NMR Assignments, 2012, 6, 127-129.	0.8	15
30	NMR structural analysis of <i>Sleeping Beauty</i> transposase binding to DNA. Protein Science, 2014, 23, 23-33.	7.6	15
31	NMR structure, conformational dynamics, and biological activity of Ps Def1 defensin from Pinus sylvestris. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1085-1094.	2.3	15
32	Effect of Intrinsic Disorder and Self-Association on the Translational Diffusion of Proteins: The Case of α-Casein. Journal of Physical Chemistry B, 2017, 121, 2980-2988.	2.6	15
33	Measuring protein self-diffusion in protein–protein mixtures using a pulsed gradient spin-echo technique with WATERGATE and isotope filtering. Journal of Magnetic Resonance, 2004, 166, 129-133.	2.1	14
34	CXCL12-CXCL4 heterodimerization prevents CXCL12-driven breast cancer cell migration. Cellular Signalling, 2020, 66, 109488.	3.6	14
35	Peptide Internal Motions on Nanosecond Time Scale Derived from Direct Fitting of 13C and 15N NMR Spectral Density Functions. Journal of Magnetic Resonance, 2000, 146, 188-195.	2.1	13
36	Dynamics and thermodynamic properties of CXCL7 chemokine. Proteins: Structure, Function and Bioinformatics, 2015, 83, 1987-2007.	2.6	13

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37	Structure of Scots pine defensin 1 by spectroscopic methods and computational modeling. International Journal of Biological Macromolecules, 2016, 84, 142-152.	7.5	13
38	Internal motional amplitudes and correlated bond rotations in an αâ€helical peptide derived from ¹³ C and ¹⁵ N NMR relaxation. Protein Science, 2000, 9, 2118-2127.	7.6	11
39	Pro4 prolyl peptide bond isomerization in human galectin-7 modulates the monomer-dimer equilibrum to affect function. Biochemical Journal, 2020, 477, 3147-3165.	3.7	11
40	Effect of Reducing Agent TCEP on Translational Diffusion and Supramolecular Assembly in Aqueous Solutions of α-Casein. Journal of Physical Chemistry B, 2019, 123, 2305-2315.	2.6	8
41	Translational diffusion of unfolded and intrinsically disordered proteins. Progress in Molecular Biology and Translational Science, 2019, 166, 85-108.	1.7	7
42	Structure, dynamics, and function of PsDef2 defensin from Pinus sylvestris. Structure, 2022, 30, 753-762.e5.	3.3	7
43	Theoretical and Experimental Investigation of the Translational Diffusion of Proteins in the Vicinity of Temperature-Induced Unfolding Transition. Journal of Physical Chemistry B, 2016, 120, 10192-10198.	2.6	6
44	CaATP prolongs strong actomyosin binding and promotes futile myosin stroke. Journal of Muscle Research and Cell Motility, 2019, 40, 389-398.	2.0	5
45	Prokaryotic expression and purification of bioactive defension 2 from Pinus sylvestris L Studia Biologica = ĐʿІОЛОГІЧĐІ Đ¡Đ¢Đ£Đ"ІЇ Studia Biologica, 2019, 13, 29-40.	0.4	3
46	Seed-derived defensins from Scots pine: structural and functional features. Planta, 2021, 254, 129.	3.2	3
47	The Folding of the Specific DNA Recognition Subdomain of the Sleeping Beauty Transposase Is Temperature-Dependent and Is Required for Its Binding to the Transposon DNA. PLoS ONE, 2014, 9, e112114.	2.5	2
48	NMR solution structure of the RED subdomain of the <i>Sleeping Beauty</i> transposase. Protein Science, 2017, 26, 1171-1181.	7.6	2
49	Mos1 Transposase Thermodynamic Stability and Flexibility. Biophysical Journal, 2015, 108, 521a.	0.5	1
50	Rigidity and flexibility characteristics of DD[E/D]â€ŧransposases Mos1 and Sleeping Beauty. Proteins: Structure, Function and Bioinformatics, 2019, 87, 313-325.	2.6	1
51	Age-related changes of anisotropic properties of water self-diffusion in human lens: Diffusion anisotropy in lens with aging. Applied Magnetic Resonance, 2001, 21, 89-95.	1.2	0
52	Lactose Binding To Galectin-1 Occurs With Negative Cooperativity and Attenuates Internal Motions Throughout the Protein. Biophysical Journal, 2010, 98, 36a.	0.5	0
53	Thermodynamic Stability and Flexibility of CXC Chemokines. Biophysical Journal, 2013, 104, 60a.	0.5	0
54	The Study of CXCL7-CXCL12 Chemokine Heterodimer by NMR Spectroscopy. Biophysical Journal, 2013, 104, 180a.	0.5	0

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#	Article	IF	CITATIONS
55	Stabilization Effects of Disulfide Bonds and Dimerization on Cxcl7. Biophysical Journal, 2014, 106, 667a.	0.5	Ο