

# Irina Nesmelova

## List of Publications by Year in descending order

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55  
papers

2,302  
citations

279798

23  
h-index

214800

47  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2949  
citing authors

#	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 $\beta$ -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 $\beta$ -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

#	ARTICLE	IF	CITATIONS
19	<sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N backbone and side-chain chemical shift assignments for the 29 kDa human galectin-1 protein dimer. <i>Biomolecular NMR Assignments</i> , 2008, 2, 203-205.	0.8	32
20	The Nociceptin Pharmacophore Site for Opioid Receptor Binding Derived from the NMR Structure and Bioactivity Relationships. <i>Journal of Biological Chemistry</i> , 2005, 280, 8134-8142.	3.4	27
21	Cloning an artificial gene encoding angiostatic anginex: From designed peptide to functional recombinant protein. <i>Biochemical and Biophysical Research Communications</i> , 2005, 333, 1261-1268.	2.1	25
22	The heterodimerization of platelet-derived chemokines. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 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. <i>Journal of Virology</i> , 2020, 94, .	3.4	25
24	Discovery and development of anti-angiogenic peptides: A structural link. <i>Angiogenesis</i> , 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. <i>Crystal Growth and Design</i> , 2011, 11, 2368-2378.	3.0	23
26	Conformational Exchange on the Microsecond Time Scale in <sup>1</sup> H-Helix and <sup>1</sup> H <sup>2</sup> -Hairpin Peptides Measured by <sup>13</sup> C NMR Transverse Relaxation. <i>Biochemistry</i> , 2001, 40, 2844-2853.	2.5	18
27	Comparison of <sup>13</sup> C- <sup>1</sup> H and <sup>15</sup> NH backbone dynamics in protein GB1. <i>Protein Science</i> , 2003, 12, 914-922.	7.6	16
28	Understanding Galectin Structure-Function Relationships to Design Effective Antagonists. , 0, , 33-69.		15
29	<sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N backbone and side-chain chemical shift assignments for the 31 kDa human galectin-7 (p53-induced gene 1) homodimer, a pro-apoptotic lectin. <i>Biomolecular NMR Assignments</i> , 2012, 6, 127-129.	0.8	15
30	NMR structural analysis of Sleeping Beauty transposase binding to DNA. <i>Protein Science</i> , 2014, 23, 23-33.	7.6	15
31	NMR structure, conformational dynamics, and biological activity of Ps Def1 defensin from <i>Pinus sylvestris</i> . <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1085-1094.	2.3	15
32	Effect of Intrinsic Disorder and Self-Association on the Translational Diffusion of Proteins: The Case of <sup>1</sup> H-Casein. <i>Journal of Physical Chemistry B</i> , 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. <i>Journal of Magnetic Resonance</i> , 2004, 166, 129-133.	2.1	14
34	CXCL12-CXCL4 heterodimerization prevents CXCL12-driven breast cancer cell migration. <i>Cellular Signalling</i> , 2020, 66, 109488.	3.6	14
35	Peptide Internal Motions on Nanosecond Time Scale Derived from Direct Fitting of <sup>13</sup> C and <sup>15</sup> N NMR Spectral Density Functions. <i>Journal of Magnetic Resonance</i> , 2000, 146, 188-195.	2.1	13
36	Dynamics and thermodynamic properties of CXCL7 chemokine. <i>Proteins: Structure, Function and Bioinformatics</i> , 2015, 83, 1987-2007.	2.6	13



#	ARTICLE	IF	CITATIONS
55	Stabilization Effects of Disulfide Bonds and Dimerization on Cxcl7. Biophysical Journal, 2014, 106, 667a.	0.5	0