Sergei E Permyakov

List of Publications by Year
in descending order

96 papers	2,086 citations	218381 26 h-index	276539 41 g-index
96 all docs	96 docs citations	96 times ranked	1844 citing authors

#	Article	IF	Citations
1	Conformational Prerequisites for Î±-Lactalbumin Fibrillationâ€. Biochemistry, 2002, 41, 12546-12551.	1.2	211
2	Natively unfolded C-terminal domain of caldesmon remains substantially unstructured after the effective binding to calmodulin. Proteins: Structure, Function and Bioinformatics, 2003, 53, 855-Na.	1.5	97
3	Who Is Mr. HAMLET? Interaction of Human Î±-Lactalbumin with Monomeric Oleic Acid. Biochemistry, 2008, 47, 13127-13137.	1.2	80
4	Oleic acid is a key cytotoxic component of HAMLET-like complexes. Biological Chemistry, 2012, 393, 85-92.	1.2	67
5	Rabbit Models of Ocular Diseases: New Relevance for Classical Approaches. CNS and Neurological Disorders - Drug Targets, 2016, 15, 267-291.	0.8	67
6	Effect of Zinc and Temperature on the Conformation of the Î³ Subunit of Retinal Phosphodiesterase:â€‰ A Natively Unfolded Protein. Journal of Proteome Research, 2002, 1, 149-159.	1.8	66
7	Two Structural Motifs within Canonical EF-Hand Calcium-Binding Domains Identify Five Different Classes of Calcium Buffers and Sensors. PLoS ONE, 2014, 9, e109287.	1.1	61
8	Cooperative thermal transitions of bovine and human apo-Î±-lactalbumins: evidence for a new intermediate state. FEBS Letters, 1997, 412, 625-628.	1.3	56
9	Involvement of the recoverin C-terminal segment in recognition of the target enzyme rhodopsin kinase. Biochemical Journal, 2011, 435, 441-450.	1.7	56
10	Tuning of a Neuronal Calcium Sensor. Journal of Biological Chemistry, 2006, 281, 37594-37602.	1.6	53
11	Apoâ€parvalbumin as an intrinsically disordered protein. Proteins: Structure, Function and Bioinformatics, 2008, 72, 822-836.	1.5	51
12	Oxidation mimicking substitution of conservative cysteine in recoverin suppresses its membrane association. Amino Acids, 2012, 42, 1435-1442.	1.2	46
13	Ultraviolet illumination-induced reduction of Î±-lactalbumin disulfide bridges. Proteins: Structure, Function and Bioinformatics, 2003, 51, 498-503.	1.5	45
14	Recoverin Is a Zinc-Binding Protein. Journal of Proteome Research, 2003, 2, 51-57.	1.8	44
15	A novel method for preparation of HAMLET-like protein complexes. Biochimie, 2011, 93, 1495-1501.	1.3	44
16	Effects of mutations in the calcium-binding sites of recoverin on its calcium affinity: evidence for successive filling of the calcium binding sites. Protein Engineering, Design and Selection, 2000, 13, 783-790.	1.0	43
17	How to improve nature: study of the electrostatic properties of the surface of Î±-lactalbumin. Protein Engineering, Design and Selection, 2005, 18, 425-433.	1.0	40
18	Generic Structures of Cytotoxic Liprotides: Nanoâ€Sized Complexes with Oleic Acid Cores and Shells of Disordered Proteins. ChemBioChem, 2014, 15, 2693-2702.	1.3	37

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19	Light-induced disulfide dimerization of recoverin under ex vivo and in vivo conditions. Free Radical Biology and Medicine, 2015, 83, 283-295.	1.3	37
20	Interaction of antitumor Î±-lactalbuminâ€"oleic acid complexes with artificial and natural membranes. Journal of Bioenergetics and Biomembranes, 2009, 41, 229-237.	1.0	36
21	Recoverin as a Redox-Sensitive Protein. Journal of Proteome Research, 2007, 6, 1855-1863.	1.8	34
22	Functional Status of Neuronal Calcium Sensor-1 Is Modulated by Zinc Binding. Frontiers in Molecular Neuroscience, 2018, 11, 459.	1.4	32
23	Interleukin-11 binds specific EF-hand proteins via their conserved structural motifs. Journal of Biomolecular Structure and Dynamics, 2017, 35, 78-91.	2.0	31
24	The Use of Human, Bovine, and Camel Milk Albumins in Anticancer Complexes with Oleic Acid. Protein Journal, 2018, 37, 203-215.	0.7	30
25	Intrinsic disorder in S100 proteins. Molecular BioSystems, 2011, 7, 2164.	2.9	28
26	Synergetic Effect of Recoverin and Calmodulin on Regulation of Rhodopsin Kinase. Frontiers in Molecular Neuroscience, 2012, 5, 28.	1.4	26
27	Fine tuning the N-terminus of a calcium binding protein: ?-lactalbumin. , 1999, 37, 65-72.		25
28	The impact of alpha-N-acetylation on structural and functional status of parvalbumin. Cell Calcium, 2012, 52, 366-376.	1.1	25
29	Ca²⁺-Myristoyl Switch in Neuronal Calcium Sensor-1: A Role of C-Terminal Segment. CNS and Neurological Disorders - Drug Targets, 2015, 14, 437-451.	0.8	25
30	Intrinsically Disordered Regions in Serum Albumin: What Are They For?. Cell Biochemistry and Biophysics, 2018, 76, 39-57.	0.9	23
31	Metal-controlled interdomain cooperativity in parvalbumins. Cell Calcium, 2009, 46, 163-175.	1.1	22
32	Parvalbumin as a Pleomorphic Protein. Current Protein and Peptide Science, 2017, 18, 780-794.	0.7	21
33	Mutating aspartate in the calcium-binding site of Î±-lactalbumin: effects on the protein stability and cation binding. Protein Engineering, Design and Selection, 2001, 14, 785-789.	1.0	20
34	Conversion of Human Î±-lactalbumin to an Apo-like State in the Complexes with Basic Poly-Amino Acids:Â Toward Understanding of the Molecular Mechanism of Antitumor Action of HAMLET. Journal of Proteome Research, 2005, 4, 564-569.	1.8	20
35	Effects of osmolytes on protein-solvent interactions in crowded environment: Analyzing the effect of TMAO on proteins in crowded solutions. Archives of Biochemistry and Biophysics, 2015, 570, 66-74.	1.4	19
36	Ca2+/Sr2+ Selectivity in Calcium-Sensing Receptor (CaSR): Implications for Strontiumâ€™s Anti-Osteoporosis Effect. Biomolecules, 2021, 11, 1576.	1.8	19

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37	The binding of monomeric amyloid Î² peptide to serum albumin is affected by major plasma unsaturated fatty acids. Biochemical and Biophysical Research Communications, 2019, 510, 248-253.	1.0	18
38	Does Intrinsic Disorder in Proteins Favor Their Interaction with Lipids?. Proteomics, 2019, 19, e1800098.	1.3	18
39	Highly specific interaction of monomeric S100P protein with interferon beta. International Journal of Biological Macromolecules, 2020, 143, 633-639.	3.6	18
40	Photoreceptor calcium sensor proteins in detergent-resistant membrane rafts are regulated via binding to caveolin-1. Cell Calcium, 2018, 73, 55-69.	1.1	17
41	pH-induced transition and Zn2+-binding properties of bovine prolactin1. FEBS Letters, 1997, 405, 273-276.	1.3	16
42	High-affinity interaction between interleukin-11 and S100P protein. Biochemical and Biophysical Research Communications, 2015, 468, 733-738.	1.0	15
43	Interleukin-11: A Multifunctional Cytokine with Intrinsically Disordered Regions. Cell Biochemistry and Biophysics, 2016, 74, 285-296.	0.9	14
44	Structural Characterization of More Potent Alternatives to HAMLET, a Tumoricidal Complex of Î±-Lactalbumin and Oleic Acid. Biochemistry, 2013, 52, 6286-6299.	1.2	13
45	Interferon Beta Activity Is Modulated via Binding of Specific S100 Proteins. International Journal of Molecular Sciences, 2020, 21, 9473.	1.8	13
46	Disorder in Milk Proteins: ?-Lactalbumin. Part B. A Multifunctional Whey Protein Acting as an Oligomeric Molten Globular â€œOil Containerâ€• in the Anti-Tumorigenic Drugs, Liprotides. Current Protein and Peptide Science, 2016, 17, 612-628.	0.7	13
47	Disorder in Milk Proteins: Î±-Lactalbumin. Part C. Peculiarities of Metal Binding. Current Protein and Peptide Science, 2016, 17, 735-745.	0.7	13
48	Sequence microheterogeneity of parvalbumin pI 5.0 of pike: A mass spectrometric study. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2009, 1794, 129-136.	1.1	12
49	In search for globally disordered apo-parvalbumins: Case of parvalbumin Î²-1 from coho salmon. Cell Calcium, 2017, 67, 53-64.	1.1	12
50	Calcium-binding and temperature induced transitions in equine lysozyme: New insights from the pCa-temperature â€œphase diagramsâ€• Proteins: Structure, Function and Bioinformatics, 2006, 65, 984-998.	1.5	11
51	Regulatory function of the C-terminal segment of guanylate cyclase-activating protein 2. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 1325-1337.	1.1	11
52	Monomeric state of S100P protein: Experimental and molecular dynamics study. Cell Calcium, 2019, 80, 152-159.	1.1	11
53	Light-Induced Thiol Oxidation of Recoverin Affects Rhodopsin Desensitization. Frontiers in Molecular Neuroscience, 2018, 11, 474.	1.4	11
54	Serotonin Promotes Serum Albumin Interaction with the Monomeric Amyloid Î² Peptide. International Journal of Molecular Sciences, 2021, 22, 5896.	1.8	11

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55	Strontium Binding to Î±-Parvalbumin, a Canonical Calcium-Binding Protein of the â€œEF-Handâ€•Family. Biomolecules, 2021, 11, 1158.	1.8	11
56	Specific cytokines of interleukin-6 family interact with S100 proteins. Cell Calcium, 2022, 101, 102520.	1.1	11
57	Analysis of Ca²⁺/Mg²⁺ selectivity in Î±â€lactalbumin and Ca²⁺â€binding lysozyme reveals a distinct Mg²⁺â€specific site in lysozyme. Proteins: Structure, Function and Bioinformatics, 2010, 78, 2609-2624.	1.5	9
58	Parvalbumin as a metal-dependent antioxidant. Cell Calcium, 2014, 55, 261-268.	1.1	9
59	Modulation of linoleic acid-binding properties of human serum albumin by divalent metal cations. BioMetals, 2017, 30, 341-353.	1.8	9
60	Intrinsically disordered caldesmon binds calmodulin via the â€œbuttons on a stringâ€•mechanism. PeerJ, 2015, 3, e1265.	0.9	9
61	Sequence microheterogeneity of parvalbumin, the major fish allergen. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1607-1614.	1.1	8
62	Comprehensive analysis of the roles of â€˜blackâ€™ and â€˜grayâ€™ clusters in structure and function of rat Î²-parvalbumin. Cell Calcium, 2018, 75, 64-78.	1.1	8
63	Disulfide Dimerization of Neuronal Calcium Sensor-1: Implications for Zinc and Redox Signaling. International Journal of Molecular Sciences, 2021, 22, 12602.	1.8	8
64	Erythropoietin Interacts with Specific S100 Proteins. Biomolecules, 2022, 12, 120.	1.8	8
65	Differential Scanning Microcalorimetry of Intrinsically Disordered Proteins. Methods in Molecular Biology, 2012, 896, 283-296.	0.4	7
66	Ibuprofen Favors Binding of Amyloid-Î² Peptide to Its Depot, Serum Albumin. International Journal of Molecular Sciences, 2022, 23, 6168.	1.8	7
67	Effect of Cu2+ and Zn2+ ions on human serum albumin interaction with plasma unsaturated fatty acids. International Journal of Biological Macromolecules, 2019, 131, 505-509.	3.6	6
68	Zinc Modulation of Neuronal Calcium Sensor Proteins: Three Modes of Interaction with Different Structural Outcomes. Biomolecules, 2022, 12, 956.	1.8	6
69	The Use of the Free Metal â€“ Temperature â€˜Phase Diagramsâ€™ for Studies of Single Site Metal Binding Proteins. Protein Journal, 2007, 26, 1-12.	0.7	5
70	Effect of surplus glucose on physiological and biochemical characteristics of sugar beet leaves in relation to the age of the leaf and the whole plant. Russian Journal of Plant Physiology, 2008, 55, 201-210.	0.5	5
71	On the relationship between the conserved â€˜blackâ€™ and â€˜grayâ€™ structural clusters and intrinsic disorder in parvalbumins. International Journal of Biological Macromolecules, 2018, 120, 1055-1062.	3.6	5
72	Papain-like cysteine proteinase zone (PCP-zone) and PCP structural catalytic core (PCP-SCC) of enzymes with cysteine proteinase fold. International Journal of Biological Macromolecules, 2020, 165, 1438-1446.	3.6	5

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73	A Novel Approach to Bacterial Expression and Purification of Myristoylated Forms of Neuronal Calcium Sensor Proteins. Biomolecules, 2020, 10, 1025.	1.8	5
74	In Vitro N-Terminal Acetylation of Bacterially Expressed Parvalbumins by N-Terminal Acetyltransferases from Escherichia coli. Applied Biochemistry and Biotechnology, 2021, 193, 1365-1378.	1.4	5
75	Membrane Binding of Neuronal Calcium Sensor-1: Highly Specific Interaction with Phosphatidylinositol-3-Phosphate. Biomolecules, 2020, 10, 164.	1.8	5
76	Interferon-Î² Activity Is Affected by S100B Protein. International Journal of Molecular Sciences, 2022, 23, 1997.	1.8	5
77	Novel calcium recognition constructions in proteins: Calcium blade and EF-hand zone. Biochemical and Biophysical Research Communications, 2017, 483, 958-963.	1.0	4
78	Calcium-dependent interaction of monomeric S100P protein with serum albumin. International Journal of Biological Macromolecules, 2018, 108, 143-148.	3.6	4
79	Effects of his-tags on physical properties of parvalbumins. Cell Calcium, 2019, 77, 1-7.	1.1	4
80	Analyzing the structural and functional roles of residues from the â€˜blackâ€™ and â€˜grayâ€™ clusters of human S100P protein. Cell Calcium, 2019, 80, 46-55.	1.1	4
81	Expression, Purification, and Characterization of Interleukin-11 Orthologues. Molecules, 2016, 21, 1632.	1.7	3
82	Building kit for metal cation binding sites in proteins. Biochemical and Biophysical Research Communications, 2017, 494, 311-317.	1.0	3
83	The Highly Conservative Cysteine of Oncomodulin as a Feasible Redox Sensor. Biomolecules, 2021, 11, 66.	1.8	3
84	Structural and functional significance of the amino acid differences Val35Thr, Ser46Ala, Asn65Ser, and Ala94Ser in 3C-like proteinases from SARS-CoV-2 and SARS-CoV. International Journal of Biological Macromolecules, 2021, 193, 2113-2113.	3.6	3
85	Kinetics of peptide synthesis studied by fluorescence of fluorophenyl esters. International Journal of Peptide and Protein Research, 2009, 44, 472-476.	0.1	2
86	Extremophilic 50S Ribosomal RNA-Binding Protein L35Ae as a Basis for Engineering of an Alternative Protein Scaffold. PLoS ONE, 2015, 10, e0134906.	1.1	2
87	Structural transitions in chiral solutions and a microscopic model of a chiral string. Russian Journal of Physical Chemistry B, 2015, 9, 193-200.	0.2	2
88	Experimental Insight into the Structural and Functional Roles of the â€˜Blackâ€™ and â€˜Grayâ€™ Clusters in Recoverin, a Calcium Binding Protein with Four EF-Hand Motifs. Molecules, 2019, 24, 2494.	1.7	2
89	Mouse S100G protein exhibits properties characteristic of a calcium sensor. Cell Calcium, 2020, 87, 102185.	1.1	2
90	Structural leitmotif and functional variations of the structural catalytic core in (chymo)trypsin-like serine/cysteine fold proteinases. International Journal of Biological Macromolecules, 2021, 179, 601-609.	3.6	2

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91	Mechanism of Zn2+ and Ca2+ Binding to Human S100A1. Biomolecules, 2021, 11, 1823.	1.8	2
92	Kinetics and Mechanism of the Peptide Synthesis in Solution. Russian Journal of Bioorganic Chemistry, 2002, 28, 9-13.	0.3	1
93	The ABA-binding protein AA1 of Lupinus luteus is involved in ABA-mediated responses. Russian Journal of Plant Physiology, 2015, 62, 161-170.	0.5	1
94	System Approach for Building of Calcium-Binding Sites in Proteins. Biomolecules, 2020, 10, 588.	1.8	1
95	Derivative of Extremophilic 50S Ribosomal Protein L35Ae as an Alternative Protein Scaffold. PLoS ONE, 2017, 12, e0170349.	1.1	1
96	Single-Molecule Fluorescence-Based Measurements of Conformational Dynamics of Calcium-Binding Protein Recoverin. Biophysical Journal, 2021, 120, 183a.	0.2	0