Sergei E Permyakov

List of Publications by Year
in descending order

96	2,086	218381 26	276539 41
papers	citations	h-index	g-index

96	96	96	1844
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Erythropoietin Interacts with Specific S100 Proteins. Biomolecules, 2022, 12, 120.	1.8	8
2	Specific cytokines of interleukin-6 family interact with S100 proteins. Cell Calcium, 2022, 101, 102520.	1.1	11
3	Interferon-Î² Activity Is Affected by S100B Protein. International Journal of Molecular Sciences, 2022, 23, 1997.	1.8	5
4	Ibuprofen Favors Binding of Amyloid-Î² Peptide to Its Depot, Serum Albumin. International Journal of Molecular Sciences, 2022, 23, 6168.	1.8	7
5	Zinc Modulation of Neuronal Calcium Sensor Proteins: Three Modes of Interaction with Different Structural Outcomes. Biomolecules, 2022, 12, 956.	1.8	6
6	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
7	Single-Molecule Fluorescence-Based Measurements of Conformational Dynamics of Calcium-Binding Protein Recoverin. Biophysical Journal, 2021, 120, 183a.	0.2	0
8	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
9	Serotonin Promotes Serum Albumin Interaction with the Monomeric Amyloid Î² Peptide. International Journal of Molecular Sciences, 2021, 22, 5896.	1.8	11
10	Strontium Binding to Î±-Parvalbumin, a Canonical Calcium-Binding Protein of the â€œEF-Handâ€• Family. Biomolecules, 2021, 11, 1158.	1.8	11
11	The Highly Conservative Cysteine of Oncomodulin as a Feasible Redox Sensor. Biomolecules, 2021, 11, 66.	1.8	3
12	Ca2+/Sr2+ Selectivity in Calcium-Sensing Receptor (CaSR): Implications for Strontiumâ€™s Anti-Osteoporosis Effect. Biomolecules, 2021, 11, 1576.	1.8	19
13	Disulfide Dimerization of Neuronal Calcium Sensor-1: Implications for Zinc and Redox Signaling. International Journal of Molecular Sciences, 2021, 22, 12602.	1.8	8
14	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
15	Mechanism of Zn2+ and Ca2+ Binding to Human S100A1. Biomolecules, 2021, 11, 1823.	1.8	2
16	Highly specific interaction of monomeric S100P protein with interferon beta. International Journal of Biological Macromolecules, 2020, 143, 633-639.	3.6	18
17	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
18	Interferon Beta Activity Is Modulated via Binding of Specific S100 Proteins. International Journal of Molecular Sciences, 2020, 21, 9473.	1.8	13

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19	A Novel Approach to Bacterial Expression and Purification of Myristoylated Forms of Neuronal Calcium Sensor Proteins. Biomolecules, 2020, 10, 1025.	1.8	5
20	Mouse S100G protein exhibits properties characteristic of a calcium sensor. Cell Calcium, 2020, 87, 102185.	1.1	2
21	System Approach for Building of Calcium-Binding Sites in Proteins. Biomolecules, 2020, 10, 588.	1.8	1
22	Membrane Binding of Neuronal Calcium Sensor-1: Highly Specific Interaction with Phosphatidylinositol-3-Phosphate. Biomolecules, 2020, 10, 164.	1.8	5
23	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
24	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
25	Effects of his-tags on physical properties of parvalbumins. Cell Calcium, 2019, 77, 1-7.	1.1	4
26	Monomeric state of S100P protein: Experimental and molecular dynamics study. Cell Calcium, 2019, 80, 152-159.	1.1	11
27	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
28	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
29	Does Intrinsic Disorder in Proteins Favor Their Interaction with Lipids?. Proteomics, 2019, 19, e1800098.	1.3	18
30	The Use of Human, Bovine, and Camel Milk Albumins in Anticancer Complexes with Oleic Acid. Protein Journal, 2018, 37, 203-215.	0.7	30
31	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
32	Intrinsically Disordered Regions in Serum Albumin: What Are They For?. Cell Biochemistry and Biophysics, 2018, 76, 39-57.	0.9	23
33	Calcium-dependent interaction of monomeric S100P protein with serum albumin. International Journal of Biological Macromolecules, 2018, 108, 143-148.	3.6	4
34	Functional Status of Neuronal Calcium Sensor-1 Is Modulated by Zinc Binding. Frontiers in Molecular Neuroscience, 2018, 11, 459.	1.4	32
35	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
36	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

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37	Light-Induced Thiol Oxidation of Recoverin Affects Rhodopsin Desensitization. Frontiers in Molecular Neuroscience, 2018, 11, 474.	1.4	11
38	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
39	Novel calcium recognition constructions in proteins: Calcium blade and EF-hand zone. Biochemical and Biophysical Research Communications, 2017, 483, 958-963.	1.0	4
40	Modulation of linoleic acid-binding properties of human serum albumin by divalent metal cations. BioMetals, 2017, 30, 341-353.	1.8	9
41	Building kit for metal cation binding sites in proteins. Biochemical and Biophysical Research Communications, 2017, 494, 311-317.	1.0	3
42	In search for globally disordered apo-parvalbumins: Case of parvalbumin Î²-1 from coho salmon. Cell Calcium, 2017, 67, 53-64.	1.1	12
43	Parvalbumin as a Pleomorphic Protein. Current Protein and Peptide Science, 2017, 18, 780-794.	0.7	21
44	Derivative of Extremophilic 50S Ribosomal Protein L35Ae as an Alternative Protein Scaffold. PLoS ONE, 2017, 12, e0170349.	1.1	1
45	Expression, Purification, and Characterization of Interleukin-11 Orthologues. Molecules, 2016, 21, 1632.	1.7	3
46	Interleukin-11: A Multifunctional Cytokine with Intrinsically Disordered Regions. Cell Biochemistry and Biophysics, 2016, 74, 285-296.	0.9	14
47	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
48	Disorder in Milk Proteins: Î±-Lactalbumin. Part C. Peculiarities of Metal Binding. Current Protein and Peptide Science, 2016, 17, 735-745.	0.7	13
49	Rabbit Models of Ocular Diseases: New Relevance for Classical Approaches. CNS and Neurological Disorders - Drug Targets, 2016, 15, 267-291.	0.8	67
50	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
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	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
53	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
54	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

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55	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
56	High-affinity interaction between interleukin-11 and S100P protein. Biochemical and Biophysical Research Communications, 2015, 468, 733-738.	1.0	15
57	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
58	Intrinsically disordered caldesmon binds calmodulin via the â€œbuttons on a stringâ€• mechanism. PeerJ, 2015, 3, e1265.	0.9	9
59	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
60	Parvalbumin as a metal-dependent antioxidant. Cell Calcium, 2014, 55, 261-268.	1.1	9
61	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
62	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
63	Sequence microheterogeneity of parvalbumin, the major fish allergen. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1607-1614.	1.1	8
64	Synergetic Effect of Recoverin and Calmodulin on Regulation of Rhodopsin Kinase. Frontiers in Molecular Neuroscience, 2012, 5, 28.	1.4	26
65	Differential Scanning Microcalorimetry of Intrinsically Disordered Proteins. Methods in Molecular Biology, 2012, 896, 283-296.	0.4	7
66	The impact of alpha-N-acetylation on structural and functional status of parvalbumin. Cell Calcium, 2012, 52, 366-376.	1.1	25
67	Oleic acid is a key cytotoxic component of HAMLET-like complexes. Biological Chemistry, 2012, 393, 85-92.	1.2	67
68	Oxidation mimicking substitution of conservative cysteine in recoverin suppresses its membrane association. Amino Acids, 2012, 42, 1435-1442.	1.2	46
69	Involvement of the recoverin C-terminal segment in recognition of the target enzyme rhodopsin kinase. Biochemical Journal, 2011, 435, 441-450.	1.7	56
70	A novel method for preparation of HAMLET-like protein complexes. Biochimie, 2011, 93, 1495-1501.	1.3	44
71	Intrinsic disorder in S100 proteins. Molecular BioSystems, 2011, 7, 2164.	2.9	28
72	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

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73	Kinetics of peptide synthesis studied by fluorescence of fluorophenyl esters. International Journal of Peptide and Protein Research, 2009, 44, 472-476.	0.1	2
74	Metal-controlled interdomain cooperativity in parvalbumins. Cell Calcium, 2009, 46, 163-175.	1.1	22
75	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
76	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
77	Apoâ€parvalbumin as an intrinsically disordered protein. Proteins: Structure, Function and Bioinformatics, 2008, 72, 822-836.	1.5	51
78	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
79	Who Is Mr. HAMLET? Interaction of Human Î±-Lactalbumin with Monomeric Oleic Acid. Biochemistry, 2008, 47, 13127-13137.	1.2	80
80	Recoverin as a Redox-Sensitive Protein. Journal of Proteome Research, 2007, 6, 1855-1863.	1.8	34
81	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
82	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
83	Tuning of a Neuronal Calcium Sensor. Journal of Biological Chemistry, 2006, 281, 37594-37602.	1.6	53
84	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
85	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
86	Ultraviolet illumination-induced reduction of Î±-lactalbumin disulfide bridges. Proteins: Structure, Function and Bioinformatics, 2003, 51, 498-503.	1.5	45
87	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
88	Recoverin Is a Zinc-Binding Protein. Journal of Proteome Research, 2003, 2, 51-57.	1.8	44
89	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
90	Conformational Prerequisites for Î±-Lactalbumin Fibrillationâ€. Biochemistry, 2002, 41, 12546-12551.	1.2	211

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91	Kinetics and Mechanism of the Peptide Synthesis in Solution. Russian Journal of Bioorganic Chemistry, 2002, 28, 9-13.	0.3	1
92	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
93	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
94	Fine tuning the N-terminus of a calcium binding protein: ?-lactalbumin. , 1999, 37, 65-72.		25
95	pH-induced transition and Zn2+-binding properties of bovine prolactin1. FEBS Letters, 1997, 405, 273-276.	1.3	16
96	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