

Leonid Breydo

List of Publications by Year in descending order

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82
papers

5,026
citations

147566

31
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91712

69
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94
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94
docs citations

94
times ranked

7165
citing authors

#	ARTICLE	IF	CITATIONS
1	Repeated repeat problems: Combinatorial effect of C9orf72-derived dipeptide repeat proteins. <i>International Journal of Biological Macromolecules</i> , 2019, 127, 136-145.	3.6	13
2	Not all AMLETs are made equal: complexes of cow and camel α -lactalbumin with oleic acid show different structure and stability. <i>Journal of Biomolecular Structure and Dynamics</i> , 2018, 36, 4405-4412.	2.0	4
3	Effects of osmolytes on solvent features of water in aqueous solutions. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 1055-1068.	2.0	27
4	Effects of Intrinsic and Extrinsic Factors on Aggregation of Physiologically Important Intrinsically Disordered Proteins. <i>International Review of Cell and Molecular Biology</i> , 2017, 329, 145-185.	1.6	17
5	Purification, biochemical, and structural characterization of a novel fibrinolytic enzyme from <i>Mucor subtilissimus</i> UCP 1262. <i>Bioprocess and Biosystems Engineering</i> , 2017, 40, 1209-1219.	1.7	26
6	Isoniazid inhibits human erythroid 5-aminolevulinatase synthase: Molecular mechanism and tolerance study with four X-linked protoporphyria patients. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 428-439.	1.8	12
7	Intrinsic disorder in proteins involved in amyotrophic lateral sclerosis. <i>Cellular and Molecular Life Sciences</i> , 2017, 74, 1297-1318.	2.4	42
8	[P4 α €103]: PROLINE ISOMERIZATION CONTROLS TOXIC AMYLOID FORMATION. <i>Alzheimer's and Dementia</i> , 2017, 13, P1297.	0.4	0
9	Carbonyl-based blue autofluorescence of proteins and amino acids. <i>PLoS ONE</i> , 2017, 12, e0176983.	1.1	62
10	When Good Goes Awry: The Aggregation of Protein Therapeutics. <i>Protein and Peptide Letters</i> , 2017, 24, 340-347.	0.4	12
11	Phytochemicals as Antiaggregation Agents in Neurodegenerative Diseases. , 2017, , 333-354.		0
12	Macromolecular crowders and osmolytes modulate the structural and catalytic properties of alkaline molten globular 5-aminolevulinatase synthase. <i>RSC Advances</i> , 2016, 6, 114541-114552.	1.7	2
13	Murine erythroid 5-aminolevulinatase synthase: Truncation of a disordered N-terminal extension is not detrimental for catalysis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 441-452.	1.1	7
14	Hydrophobicity-dependent effects of polymers on different protein conformations. <i>RSC Advances</i> , 2016, 6, 42971-42983.	1.7	3
15	The unfolding pathways of the native and molten globule states of 5-aminolevulinatase synthase. <i>Biochemical and Biophysical Research Communications</i> , 2016, 480, 321-327.	1.0	2
16	Mechanistic study of the inhibitory activity of <i>Geum urbanum</i> extract against α -Synuclein fibrillation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2016, 1864, 1160-1169.	1.1	18
17	Structural differences between amyloid beta oligomers. <i>Biochemical and Biophysical Research Communications</i> , 2016, 477, 700-705.	1.0	65
18	Role of solvent properties of aqueous media in macromolecular crowding effects. <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 92-103.	2.0	56

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19	Mechanistic binding insights for 1-deoxy-d-Xylulose-5-Phosphate synthase, the enzyme catalyzing the first reaction of isoprenoid biosynthesis in the malaria-causing protists, Plasmodium falciparum and Plasmodium vivax. Protein Expression and Purification, 2016, 120, 16-27.	0.6	17
20	A hyperbranched dopamine-containing PEG-based polymer for the inhibition of α -synuclein fibrillation. Biochemical and Biophysical Research Communications, 2016, 469, 830-835.	1.0	23
21	Pseudocatalytic Antiaggregation Activity of Antibodies: Immunoglobulins can Influence α -Synuclein Aggregation at Substoichiometric Concentrations. Molecular Neurobiology, 2016, 53, 1949-1958.	1.9	12
22	α -Lactalbumin: Of Camels and Cows. Protein and Peptide Letters, 2016, 23, 1072-1080.	0.4	19
23	Disorder in Milk Proteins: β -Lactalbumin. Part A. Structural Properties and Conformational Behavior. Current Protein and Peptide Science, 2016, 17, 352-367.	0.7	11
24	Disorder in Milk Proteins: β -Lactalbumin. Part B. A Multifunctional Whey Protein Acting as an Oligomeric Molten Globular "Oil Container" in the Anti-Tumorigenic Drugs, Liprotides. Current Protein and Peptide Science, 2016, 17, 612-628.	0.7	13
25	Disorder in Milk Proteins: α -Lactalbumin. Part C. Peculiarities of Metal Binding. Current Protein and Peptide Science, 2016, 17, 735-745.	0.7	13
26	Disorder in Milk Proteins: α -Lactalbumin. Part A. Structural Properties and Conformational Behavior. Current Protein and Peptide Science, 2016, 17, 352-367.	0.7	11
27	Beyond the Excluded Volume Effects: Mechanistic Complexity of the Crowded Milieu. Molecules, 2015, 20, 1377-1409.	1.7	157
28	Role of monomer arrangement in the amyloid self-assembly. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2015, 1854, 218-228.	1.1	19
29	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
30	Structural, morphological, and functional diversity of amyloid oligomers. FEBS Letters, 2015, 589, 2640-2648.	1.3	150
31	Effects of Polymer Hydrophobicity on Protein Structure and Aggregation Kinetics in Crowded Milieu. Biochemistry, 2015, 54, 2957-2966.	1.2	38
32	Mechanistic and Structural Analysis of a <i>Drosophila melanogaster</i> Enzyme, Arylalkylamine N-Acetyltransferase Like 7, an Enzyme That Catalyzes the Formation of N-Acetylarylalkylamides and N-Acetylhistamine. Biochemistry, 2015, 54, 2644-2658.	1.2	16
33	Human Erythroid 5-Aminolevulinic Synthase Mutations Associated with X-Linked Protoporphyrin Disrupt the Conformational Equilibrium and Enhance Product Release. Biochemistry, 2015, 54, 5617-5631.	1.2	18
34	Mechanistic and Structural Analysis of <i>Drosophila melanogaster</i> Arylalkylamine N-Acetyltransferases. Biochemistry, 2014, 53, 7777-7793.	1.2	27
35	Conformation-Dependent Antibodies as Tools for Characterization of Amyloid Protein Aggregates. , 2014, , 81-94.		0
36	A putative role of the Sup35p C-terminal domain in the cytoskeleton organization during yeast mitosis. Molecular BioSystems, 2014, 10, 925-940.	2.9	5

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37	The crowd you're in with: Effects of different types of crowding agents on protein aggregation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 346-357.	1.1	74
38	Catalytically active alkaline molten globular enzyme: Effect of pH and temperature on the structural integrity of 5-aminolevulinatase synthase. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 2145-2154.	1.1	16
39	Molecular Mechanisms of Protein Misfolding. , 2014, , 1-14.		2
40	Intracellular processing of disease-associated α -synuclein in the human brain suggests prion-like cell-to-cell spread. <i>Neurobiology of Disease</i> , 2014, 69, 76-92.	2.1	110
41	High throughput characterization of structural differences between closely related proteins in solution. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 583-592.	1.1	25
42	Solvent interaction analysis of intrinsically disordered proteins in aqueous two-phase systems. <i>Molecular BioSystems</i> , 2013, 9, 3068.	2.9	14
43	Targeting the Chameleon: a Focused Look at α -Synuclein and Its Roles in Neurodegeneration. <i>Molecular Neurobiology</i> , 2013, 47, 446-459.	1.9	22
44	Agrochemicals, α -Synuclein, and Parkinson's Disease. <i>Molecular Neurobiology</i> , 2013, 47, 598-612.	1.9	26
45	Strain phenomenon in protein aggregation. <i>Intrinsically Disordered Proteins</i> , 2013, 1, e27130.	1.9	1
46	Accelerated neurodegeneration through chaperone-mediated oligomerization of tau. <i>Journal of Clinical Investigation</i> , 2013, 123, 4158-4169.	3.9	246
47	Selenium, Biologically Active Compounds. , 2013, , 1919-1924.		0
48	Silicon, Biologically Active Compounds. , 2013, , 1996-1998.		0
49	Arsenic, Biologically Active Compounds. , 2013, , 143-149.		1
50	Boron, Biologically Active Compounds. , 2013, , 295-299.		2
51	α -Synuclein misfolding and Parkinson's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012, 1822, 261-285.	1.8	526
52	Vaccination with a non-human random sequence amyloid oligomer mimic results in improved cognitive function and reduced plaque deposition and micro hemorrhage in Tg2576 mice. <i>Molecular Neurodegeneration</i> , 2012, 7, 37.	4.4	34
53	The macrocycle of leinamycin imparts hydrolytic stability to the thiol-sensing 1,2-dithiolan-3-one 1-oxide unit of the natural product. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 3791-3794.	1.0	9
54	Noncovalent DNA Binding Drives DNA Alkylation by Leinamycin: Evidence That the 5-(Thiazol-4-yl)-penta-2,4-dienone Moiety of the Natural Product Serves as an Atypical DNA Intercalator. <i>Journal of the American Chemical Society</i> , 2011, 133, 17641-17651.	6.6	31

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55	Role of metal ions in aggregation of intrinsically disordered proteins in neurodegenerative diseases. <i>Metallomics</i> , 2011, 3, 1163.	1.0	108
56	Conformation dependent monoclonal antibodies distinguish different replicating strains or conformers of prefibrillar A β oligomers. <i>Molecular Neurodegeneration</i> , 2010, 5, 57.	4.4	135
57	Fibrillar Oligomers Nucleate the Oligomerization of Monomeric Amyloid β but Do Not Seed Fibril Formation. <i>Journal of Biological Chemistry</i> , 2010, 285, 6071-6079.	1.6	143
58	Antiparallel β -sheet: a signature structure of the oligomeric amyloid β -peptide. <i>Biochemical Journal</i> , 2009, 421, 415-423.	1.7	445
59	Methods for Conversion of Prion Protein into Amyloid Fibrils. <i>Methods in Molecular Biology</i> , 2008, 459, 105-115.	0.4	31
60	Site-specific Conformational Studies of Prion Protein (PrP) Amyloid Fibrils Revealed Two Cooperative Folding Domains within Amyloid Structure. <i>Journal of Biological Chemistry</i> , 2007, 282, 9090-9097.	1.6	50
61	Methylene Blue Inhibits Amyloid A β Oligomerization by Promoting Fibrillization. <i>Biochemistry</i> , 2007, 46, 8850-8860.	1.2	200
62	Converting the prion protein: What makes the protein infectious. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2007, 1772, 692-703.	1.8	44
63	Nonpolar Substitution at the C-Terminus of the Prion Protein, a Mimic of the Glycosylphosphatidylinositol Anchor, Partially Impairs Amyloid Fibril Formation. <i>Biochemistry</i> , 2007, 46, 852-861.	1.2	33
64	Fibril specific, conformation dependent antibodies recognize a generic epitope common to amyloid fibrils and fibrillar oligomers that is absent in prefibrillar oligomers. <i>Molecular Neurodegeneration</i> , 2007, 2, 18.	4.4	655
65	Polymorphism and Ultrastructural Organization of Prion Protein Amyloid Fibrils: An Insight from High Resolution Atomic Force Microscopy. <i>Journal of Molecular Biology</i> , 2006, 358, 580-596.	2.0	112
66	Dichotomous versus palm-type mechanisms of lateral assembly of amyloid fibrils. <i>Protein Science</i> , 2006, 15, 1334-1341.	3.1	23
67	Hemicentin Assembly in the Extracellular Matrix Is Mediated by Distinct Structural Modules*. <i>Journal of Biological Chemistry</i> , 2006, 281, 23606-23610.	1.6	25
68	Annealing Prion Protein Amyloid Fibrils at High Temperature Results in Extension of a Proteinase K-resistant Core. <i>Journal of Biological Chemistry</i> , 2006, 281, 2373-2379.	1.6	65
69	Methionine Oxidation Interferes with Conversion of the Prion Protein into the Fibrillar Proteinase K-Resistant Conformation. <i>Biochemistry</i> , 2005, 44, 15534-15543.	1.2	78
70	Semiautomated cell-free conversion of prion protein: Applications for high-throughput screening of potential anti-prion drugs. <i>Analytical Biochemistry</i> , 2005, 339, 165-173.	1.1	29
71	Chemoenzymatic Synthesis of HIV-1 V3 Glycopeptides Carrying Two N-Glycans and Effects of Glycosylation on the Peptide Domain. <i>Journal of Organic Chemistry</i> , 2005, 70, 9990-9996.	1.7	82
72	In vitro Conversion of Full-length Mammalian Prion Protein Produces Amyloid Form with Physical Properties of PrP ^{Sc} . <i>Journal of Molecular Biology</i> , 2005, 346, 645-659.	2.0	234

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73	The presence of valine at residue 129 in human prion protein accelerates amyloid formation. FEBS Letters, 2005, 579, 2589-2596.	1.3	40
74	Synthetic prions generated in vitro are similar to a newly identified subpopulation of PrPSc from sporadic Creutzfeldt-Jakob Disease. Protein Science, 2005, 14, 1222-1232.	3.1	89
75	Copper(II) Inhibits in Vitro Conversion of Prion Protein into Amyloid Fibrils. Biochemistry, 2005, 44, 6776-6787.	1.2	175
76	Synthesis and noncovalent DNA-binding properties of thiazole derivatives related to leinamycin. Tetrahedron Letters, 2004, 45, 5711-5716.	0.7	24
77	Activation of Leinamycin by Thiols: A Theoretical Study. Journal of Organic Chemistry, 2002, 67, 9054-9060.	1.7	33
78	Two (E,E)- and (Z,E)-thiazol-5-ylpenta-2,4-dienones. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, o447-o449.	0.4	6
79	Thiol-Independent DNA Alkylation by Leinamycin. Journal of the American Chemical Society, 2001, 123, 2060-2061.	6.6	49
80	DNA Alkylation by leinamycin can be triggered by cyanide and phosphines. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1511-1515.	1.0	19
81	Thiol-dependent DNA cleavage by 3 H -1,2-benzodithiol-3-one 1,1-dioxide. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 885-889.	1.0	21
82	Study of ionization of tyrosine residues in proteins by second-derivative UV spectroscopy. Russian Chemical Bulletin, 1997, 46, 1339-1343.	0.4	3