

DÃ©bora Foguel

List of Publications by Year in descending order

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95
all docs

95
docs citations

95
times ranked

4775
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure provides new insights into protein folding, dynamics and structure. Trends in Biochemical Sciences, 2001, 26, 612-618.	7.5	374
2	DNA Converts Cellular Prion Protein into the β -Sheet Conformation and Inhibits Prion Peptide Aggregation. Journal of Biological Chemistry, 2001, 276, 49400-49409.	3.4	190
3	High-Pressure Chemical Biology and Biotechnology. Chemical Reviews, 2014, 114, 7239-7267.	47.7	177
4	Dissociation of amyloid fibrils of β -synuclein and transthyretin by pressure reveals their reversible nature and the formation of water-excluded cavities. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9831-9836.	7.1	170
5	Fibrillar Aggregates of the Tumor Suppressor p53 Core Domain. Biochemistry, 2003, 42, 9022-9027.	2.5	167
6	A Metabolic Shift toward Pentose Phosphate Pathway Is Necessary for Amyloid Fibril- and Phorbol 12-Myristate 13-Acetate-induced Neutrophil Extracellular Trap (NET) Formation. Journal of Biological Chemistry, 2015, 290, 22174-22183.	3.4	156
7	The use of hydrostatic pressure as a tool to study viruses and other macromolecular assemblages. Current Opinion in Structural Biology, 1996, 6, 166-175.	5.7	139
8	Antithrombin-mediated Anticoagulant Activity of Sulfated Polysaccharides. Journal of Biological Chemistry, 2004, 279, 20824-20835.	3.4	137
9	Snake venomomics and venom gland transcriptomic analysis of Brazilian coral snakes, Micrurus altirostris and M. corallinus. Journal of Proteomics, 2011, 74, 1795-1809.	2.4	126
10	Cross Talk Between Brain Innate Immunity and Serotonin Signaling Underlies Depressive-Like Behavior Induced by Alzheimer's Amyloid- β Oligomers in Mice. Journal of Neuroscience, 2016, 36, 12106-12116.	3.6	116
11	Ligand Binding and Hydration in Protein Misfolding: Insights from Studies of Prion and p53 Tumor Suppressor Proteins. Accounts of Chemical Research, 2010, 43, 271-279.	15.6	104
12	Intriguing nucleic-acid-binding features of mammalian prion protein. Trends in Biochemical Sciences, 2008, 33, 132-140.	7.5	102
13	Age-related cognitive impairment is associated with long-term neuroinflammation and oxidative stress in a mouse model of episodic systemic inflammation. Journal of Neuroinflammation, 2018, 15, 28.	7.2	102
14	Hydration and Packing Effects on Prion Folding and β -Sheet Conversion. Journal of Biological Chemistry, 2004, 279, 32354-32359.	3.4	89
15	New Insights into the Mechanisms of Protein Misfolding and Aggregation in Amyloidogenic Diseases Derived from Pressure Studies. Biochemistry, 2004, 43, 11361-11370.	2.5	88
16	The Anti-Parkinsonian Drug Selegiline Delays the Nucleation Phase of β -Synuclein Aggregation Leading to the Formation of Nontoxic Species. Journal of Molecular Biology, 2011, 405, 254-273.	4.2	81
17	LexA Repressor Forms Stable Dimers in Solution. Journal of Biological Chemistry, 2000, 275, 4708-4712.	3.4	80
18	Hydrostatic pressure rescues native protein from aggregates. , 1999, 63, 552-558.		74

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19	Hydration and Packing are Crucial to Amyloidogenesis as Revealed by Pressure Studies on Transthyretin Variants that Either Protect or Worsen Amyloid Disease. <i>Journal of Molecular Biology</i> , 2003, 328, 963-974.	4.2	71
20	Structural Insights into the Interaction between Prion Protein and Nucleic Acid. <i>Biochemistry</i> , 2006, 45, 9180-9187.	2.5	71
21	Amyloid Fibrils Trigger the Release of Neutrophil Extracellular Traps (NETs), Causing Fibril Fragmentation by NET-associated Elastase. <i>Journal of Biological Chemistry</i> , 2012, 287, 37206-37218.	3.4	64
22	Controlling β -Amyloid Oligomerization by the Use of Naphthalene Sulfonates. <i>Journal of Biological Chemistry</i> , 2005, 280, 34747-34754.	3.4	60
23	The Amino-Terminal PrP Domain Is Crucial to Modulate Prion Misfolding and Aggregation. <i>Biophysical Journal</i> , 2005, 89, 2667-2676.	0.5	57
24	Modulation of Prion Protein Oligomerization, Aggregation, and β -sheet Conversion by 4,4'-Dianilino-1,1'-binaphthyl-5,5'-sulfonate (bis-ANS). <i>Journal of Biological Chemistry</i> , 2004, 279, 5346-5352.	3.4	48
25	Dopamine Affects the Stability, Hydration, and Packing of Protofibrils and Fibrils of the Wild Type and Variants of β -Synuclein. <i>Biochemistry</i> , 2007, 46, 472-482.	2.5	48
26	Role of Entropic Interactions in Viral Capsids: Single Amino Acid Substitutions in P22 Bacteriophage Coat Protein Resulting in Loss of Capsid Stability. <i>Biochemistry</i> , 1995, 34, 1120-1126.	2.5	46
27	Pressure induces folding intermediates that are crucial for protein-DNA recognition and virus assembly. <i>BBA - Proteins and Proteomics</i> , 2002, 1595, 250-265.	2.1	46
28	Novel Zn ²⁺ -binding Sites in Human Transthyretin. <i>Journal of Biological Chemistry</i> , 2010, 285, 31731-31741.	3.4	42
29	Protein folding and aggregation: Two sides of the same coin in the condensation of proteins revealed by pressure studies. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006, 1764, 443-451.	2.3	41
30	Flavonoid interactions with human transthyretin: Combined structural and thermodynamic analysis. <i>Journal of Structural Biology</i> , 2012, 180, 143-153.	2.8	41
31	Fourier Transform Infrared Spectroscopy Provides a Fingerprint for the Tetramer and for the Aggregates of Transthyretin. <i>Biophysical Journal</i> , 2006, 91, 957-967.	0.5	39
32	Conformational differences between the wild type and V30M mutant transthyretin modulate its binding to genistein: Implications to tetramer stability and ligand-binding. <i>Journal of Structural Biology</i> , 2010, 170, 522-531.	2.8	39
33	The Solution Structure and Dynamics of Full-length Human Cerebral Dopamine Neurotrophic Factor and Its Neuroprotective Role against β -Synuclein Oligomers. <i>Journal of Biological Chemistry</i> , 2015, 290, 20527-20540.	3.4	39
34	Green Tea Polyphenol Epigallocatechin-Gallate in Amyloid Aggregation and Neurodegenerative Diseases. <i>Frontiers in Neuroscience</i> , 2021, 15, 718188.	2.8	39
35	Hydrostatic Pressure Induces the Fusion-active State of Enveloped Viruses. <i>Journal of Biological Chemistry</i> , 2002, 277, 8433-8439.	3.4	37
36	Pressure-induced Dissociation and Denaturation of Allophycocyanin at Subzero Temperatures. <i>Journal of Biological Chemistry</i> , 1995, 270, 28759-28766.	3.4	36

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37	The Importance of a Gatekeeper Residue on the Aggregation of Transthyretin. <i>Journal of Biological Chemistry</i> , 2014, 289, 28324-28337.	3.4	35
38	Structural basis for the dissociation of β -synuclein fibrils triggered by pressure perturbation of the hydrophobic core. <i>Scientific Reports</i> , 2016, 6, 37990.	3.3	35
39	Inflammatory profiling of patients with familial amyloid polyneuropathy. <i>BMC Neurology</i> , 2019, 19, 146.	1.8	32
40	Dissecting the Structure, Thermodynamic Stability, and Aggregation Properties of the A25T Transthyretin (A25T-TTR) Variant Involved in Leptomenigeal Amyloidosis: Identifying Protein Partners That Co-Aggregate during A25T-TTR Fibrillogenesis in Cerebrospinal Fluid. <i>Biochemistry</i> , 2011, 50, 11070-11083.	2.5	31
41	Characterization of a Partially Folded Monomer of the DNA-binding Domain of Human Papillomavirus E2 Protein Obtained at High Pressure. <i>Journal of Biological Chemistry</i> , 1998, 273, 9050-9057.	3.4	30
42	An Intermediate Structure in the Thermal Unfolding of the GTPase Domain of Human Septin 4 (SEPT4/Bradeion ¹²) Forms Amyloid-like Filaments in Vitro. <i>Biochemistry</i> , 2007, 46, 11101-11109.	2.5	30
43	Brain infusion of β -synuclein oligomers induces motor and non-motor Parkinson TM s disease-like symptoms in mice. <i>Behavioural Brain Research</i> , 2017, 333, 150-160.	2.2	27
44	β -synuclein oligomers enhance astrocyte α -induced synapse formation through TGF α ²¹ signaling in a Parkinson's disease model. <i>Journal of Neurochemistry</i> , 2019, 150, 138-157.	3.9	27
45	The Metastable State of Nucleocapsids of Enveloped Viruses as Probed by High Hydrostatic Pressure. <i>Journal of Biological Chemistry</i> , 2001, 276, 7415-7421.	3.4	26
46	Cerebral dopamine neurotrophic factor reduces β -synuclein aggregation and propagation and alleviates behavioral alterations in β ivo. <i>Molecular Therapy</i> , 2021, 29, 2821-2840.	8.2	26
47	Bioactive Compounds from Kefir and Their Potential Benefits on Health: A Systematic Review and Meta-Analysis. <i>Oxidative Medicine and Cellular Longevity</i> , 2021, 2021, 1-34.	4.0	26
48	Tetramerization of the LexA Repressor in Solution: Implications for Gene Regulation of the E.coli SOS System at Acidic pH. <i>Journal of Molecular Biology</i> , 2006, 359, 1059-1074.	4.2	25
49	Identification of a novel ligand binding motif in the transthyretin channel. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 100-110.	3.0	25
50	Trapping the Monomer of a Non-amyloidogenic Variant of Transthyretin. <i>Journal of Biological Chemistry</i> , 2009, 284, 1443-1453.	3.4	23
51	Hydration, cavities and volume in protein folding, aggregation and amyloid assembly. <i>Physical Biology</i> , 2009, 6, 015002.	1.8	22
52	Cavity defects in the procapsid of bacteriophage P22 and the mechanism of capsid maturation. <i>Journal of Molecular Biology</i> , 1999, 287, 527-538.	4.2	21
53	Role of Hydration in the Closed-to-Open Transition Involved in Ca ²⁺ Binding by Troponin C α . <i>Biochemistry</i> , 2003, 42, 5522-5530.	2.5	20
54	High-pressure applications in medicine and pharmacology. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S929-S944.	1.8	20

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55	Reciprocal remodeling upon binding of the prion protein to its signaling partner hop/STIL. <i>FASEB Journal</i> , 2009, 23, 4308-4316.	0.5	19
56	Characterization of the Unfolding Process of the Tetrameric and Dimeric Forms of <i>Cratylia mollis</i> Seed Lectin (CRAMOLL 1): Effects of Natural Fragmentation on Protein Stability. <i>Biochemistry</i> , 2011, 50, 7330-7340.	2.5	19
57	Pressure-temperature folding landscape in proteins involved in neurodegenerative diseases and cancer. <i>Biophysical Chemistry</i> , 2013, 183, 9-18.	2.8	19
58	Astrocyte glutamate transporters are increased in an early sporadic model of synucleinopathy. <i>Neurochemistry International</i> , 2020, 138, 104758.	3.8	18
59	Heterologous expression and purification of a biologically active legume lectin from <i>Cratylia mollis</i> seeds (CRAMOLL 1). <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 1917-1924.	2.3	17
60	Inhibition of Human Transthyretin Aggregation by Non-Steroidal Anti-Inflammatory Compounds: A Structural and Thermodynamic Analysis. <i>International Journal of Molecular Sciences</i> , 2013, 14, 5284-5311.	4.1	17
61	Green Tea Polyphenol Microparticles Based on the Oxidative Coupling of EGCG Inhibit Amyloid Aggregation/Cytotoxicity and Serve as a Platform for Drug Delivery. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 4414-4423.	5.2	17
62	Cavity filling mutations at the thyroxine-binding site dramatically increase transthyretin stability and prevent its aggregation. <i>Scientific Reports</i> , 2017, 7, 44709.	3.3	16
63	Identification of archaeal proteins that affect the exosome function in vitro. <i>BMC Biochemistry</i> , 2010, 11, 22.	4.4	15
64	Brazilian Science and Research Integrity: Where are We? What Next?. <i>Anais Da Academia Brasileira De Ciencias</i> , 2015, 87, 1259-1269.	0.8	15
65	New Cardiomyokine Reduces Myocardial Ischemia/Reperfusion Injury by PI3K-AKT Pathway Via a Putative KDEL-Receptor Binding. <i>Journal of the American Heart Association</i> , 2021, 10, e019685.	3.7	15
66	New insights into conformational and functional stability of human α -thrombin probed by high hydrostatic pressure. <i>FEBS Journal</i> , 2004, 271, 3580-3587.	0.2	14
67	Extracellular alpha-synuclein: Sensors, receptors, and responses. <i>Neurobiology of Disease</i> , 2022, 168, 105696.	4.4	14
68	Structural Mechanism for the Temperature-Dependent Activation of the Hyperthermophilic Pf2001 Esterase. <i>Structure</i> , 2018, 26, 199-208.e3.	3.3	12
69	Effects of high pressure and temperature on the wild-type and F29W mutant forms of the N-domain of avian troponin C. <i>BBA - Proteins and Proteomics</i> , 1999, 1431, 53-63.	2.1	11
70	Free-Energy Linkage between Folding and Calcium Binding in EF-Hand Proteins. <i>Biophysical Journal</i> , 2008, 95, 4820-4828.	0.5	11
71	A Fluorescent Mutant of the NM Domain of the Yeast Prion Sup35 Provides Insight into Fibril Formation and Stability. <i>Biochemistry</i> , 2009, 48, 6811-6823.	2.5	11
72	The binding of synthetic triiodo L-thyronine analogs to human transthyretin: Molecular basis of cooperative and non-cooperative ligand recognition. <i>Journal of Structural Biology</i> , 2011, 173, 323-332.	2.8	11

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73	Insights into the Intramolecular Coupling between the N- and C-Domains of Troponin C Derived from High-Pressure, Fluorescence, Nuclear Magnetic Resonance, and Small-Angle X-ray Scattering Studies. <i>Biochemistry</i> , 2013, 52, 28-40.	2.5	11
74	Amyloid properties of the leader peptide of variant B cystatin C: implications for Alzheimer and macular degeneration. <i>FEBS Letters</i> , 2016, 590, 644-654.	2.8	11
75	High Pressure Studies on Transthyretin. <i>Protein and Peptide Letters</i> , 2005, 12, 245-249.	0.9	10
76	Volume and Free Energy of Folding for Troponin C C-Domain: Linkage to Ion Binding and N-Domain Interaction. <i>Biochemistry</i> , 2008, 47, 5047-5058.	2.5	10
77	¹ H-, ¹³ C- and ¹⁵ N-NMR assignment of the N-terminal domain of human cerebral dopamine neurotrophic factor (CDNF). <i>Biomolecular NMR Assignments</i> , 2013, 7, 101-103.	0.8	10
78	Sulfated galactan is a catalyst of antithrombin-mediated inactivation of $\hat{1}\pm$ -thrombin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2008, 1780, 1047-1053.	2.4	9
79	Conformational Changes in Human Hsp70 Induced by High Hydrostatic Pressure Produce Oligomers with ATPase Activity but without Chaperone Activity. <i>Biochemistry</i> , 2014, 53, 2884-2889.	2.5	9
80	Ca ²⁺ and Mg ²⁺ binding to weak sites of TnC C-domain induces exposure of a large hydrophobic surface that leads to loss of TnC from the thin filament. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 110-122.	2.8	8
81	Structure-Based Analysis of A19D, a Variant of Transthyretin Involved in Familial Amyloid Cardiomyopathy. <i>PLoS ONE</i> , 2013, 8, e82484.	2.5	6
82	Peptides derived from gp43, the most antigenic protein from <i>Paracoccidioides brasiliensis</i> , form amyloid fibrils in vitro: implications for vaccine development. <i>Scientific Reports</i> , 2021, 11, 23440.	3.3	4
83	Changes in Transcription and Protein Profile Induced by High Hydrostatic Pressure Treatment in Micro-Organisms. <i>Current Proteomics</i> , 2008, 5, 138-145.	0.3	3
84	Transthyretin-Related Amyloidoses: A Structural and Thermodynamic Approach. , 0, , .		3
85	Applying an artificial neural network model for developing a severity score for patients with hereditary amyloid polyneuropathy. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2017, 24, 153-161.	3.0	3
86	An Aggregation-Prone Intermediate Species Is Present in the Unfolding Pathway of the Monomeric Portal Protein of Bacteriophage P22:â€‰ Implications for Portal Assembly. <i>Biochemistry</i> , 2007, 46, 7353-7364.	2.5	2
87	Response to Radulescu and Brenig: Infectious nucleic acids in prion disease: halfway there. <i>Trends in Biochemical Sciences</i> , 2009, 34, 5-6.	7.5	2
88	Oligomeric $\hat{1}\pm$ -Synuclein induces skin degeneration in reconstructed human epidermis. <i>Neurobiology of Aging</i> , 2022, 113, 108-117.	3.1	2
89	Unraveling the Possible Mechanism Behind Leptomeningeal Amyloidosis Using as Model a Highly Unstable Transthyretin Tetramer. <i>Biophysical Journal</i> , 2010, 98, 30a-31a.	0.5	0