

Vytautas Smirnovas

List of Publications by Year in descending order

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70
papers

2,153
citations

201385

27
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243296

44
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74
all docs

74
docs citations

74
times ranked

2502
citing authors

#	ARTICLE	IF	CITATIONS
1	Superoxide dismutase-1 alters the rate of prion protein aggregation and resulting fibril conformation. Archives of Biochemistry and Biophysics, 2022, 715, 109096.	1.4	2
2	Chaperones mainly suppress primary nucleation during formation of functional amyloid required for bacterial biofilm formation. Chemical Science, 2022, 13, 536-553.	3.7	10
3	Lysozyme Amyloid Fibril Structural Variability Dependence on Initial Protein Folding State. International Journal of Molecular Sciences, 2022, 23, 5421.	1.8	10
4	Interactions between S100A9 and Alpha-Synuclein: Insight from NMR Spectroscopy. International Journal of Molecular Sciences, 2022, 23, 6781.	1.8	2
5	Exploring the occurrence of thioflavin-T-positive insulin amyloid aggregation intermediates. PeerJ, 2021, 9, e10918.	0.9	6
6	Lysozyme Fibrils Alter the Mechanism of Insulin Amyloid Aggregation. International Journal of Molecular Sciences, 2021, 22, 1775.	1.8	7
7	Effects of Pulsed Electric Fields on Yeast with Prions and the Structure of Amyloid Fibrils. Applied Sciences (Switzerland), 2021, 11, 2684.	1.3	2
8	Bioinformatics methods for identification of amyloidogenic peptides show robustness to misannotated training data. Scientific Reports, 2021, 11, 8934.	1.6	5
9	Human Polymerase $\hat{\Gamma}$ -Interacting Protein 2 (PolDIP2) Inhibits the Formation of Human Tau Oligomers and Fibrils. International Journal of Molecular Sciences, 2021, 22, 5768.	1.8	3
10	Natural Compound from Olive Oil Inhibits S100A9 Amyloid Formation and Cytotoxicity: Implications for Preventing Alzheimer's Disease. ACS Chemical Neuroscience, 2021, 12, 1905-1918.	1.7	18
11	Temperature-Dependent Structural Variability of Prion Protein Amyloid Fibrils. International Journal of Molecular Sciences, 2021, 22, 5075.	1.8	17
12	Using lysozyme amyloid fibrils as a means of scavenging aggregation-inhibiting compounds. Biotechnology Journal, 2021, 16, e2100138.	1.8	5
13	Polyoxometalates as Effective Nano-inhibitors of Amyloid Aggregation of Pro-inflammatory S100A9 Protein Involved in Neurodegenerative Diseases. ACS Applied Materials & Interfaces, 2021, 13, 26721-26734.	4.0	15
14	S100A9 Alters the Pathway of Alpha-Synuclein Amyloid Aggregation. International Journal of Molecular Sciences, 2021, 22, 7972.	1.8	13
15	Co-Aggregation of S100A9 with DOPA and Cyclen-Based Compounds Manifested in Amyloid Fibril Thickening without Altering Rates of Self-Assembly. International Journal of Molecular Sciences, 2021, 22, 8556.	1.8	1
16	Autoxidation Enhances Anti-Amyloid Potential of Flavone Derivatives. Antioxidants, 2021, 10, 1428.	2.2	5
17	Aggregation Condition-Structure Relationship of Mouse Prion Protein Fibrils. International Journal of Molecular Sciences, 2021, 22, 9635.	1.8	4
18	Mapping human calreticulin regions important for structural stability. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2021, 1869, 140710.	1.1	5

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19	Distinct Neurotoxic Effects of Extracellular Tau Species in Primary Neuronal-Glial Cultures. <i>Molecular Neurobiology</i> , 2021, 58, 658-667.	1.9	16
20	Interplay between epigallocatechin-3-gallate and ionic strength during amyloid aggregation. <i>PeerJ</i> , 2021, 9, e12381.	0.9	7
21	Polymorphism of Alpha-Synuclein Amyloid Fibrils Depends on Ionic Strength and Protein Concentration. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12382.	1.8	17
22	Extracellular tau induces microglial phagocytosis of living neurons in cell cultures. <i>Journal of Neurochemistry</i> , 2020, 154, 316-329.	2.1	35
23	Self-Replication of Prion Protein Fragment 89-230 Amyloid Fibrils Accelerated by Prion Protein Fragment 107-143 Aggregates. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7410.	1.8	3
24	Identifying Insulin Fibril Conformational Differences by Thioflavin-T Binding Characteristics. <i>Biomacromolecules</i> , 2020, 21, 4989-4997.	2.6	20
25	MIRRAGGE – Minimum Information Required for Reproducible AGGregation Experiments. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 582488.	1.4	19
26	Effect of Ionic Strength on Thioflavin-T Affinity to Amyloid Fibrils and Its Fluorescence Intensity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8916.	1.8	26
27	Gallic acid oxidation products alter the formation pathway of insulin amyloid fibrils. <i>Scientific Reports</i> , 2020, 10, 14466.	1.6	18
28	Templating S100A9 amyloids on A β 2 fibrillar surfaces revealed by charge detection mass spectrometry, microscopy, kinetic and microfluidic analyses. <i>Chemical Science</i> , 2020, 11, 7031-7039.	3.7	20
29	Formation of distinct prion protein amyloid fibrils under identical experimental conditions. <i>Scientific Reports</i> , 2020, 10, 4572.	1.6	23
30	Methylene blue inhibits nucleation and elongation of SOD1 amyloid fibrils. <i>PeerJ</i> , 2020, 8, e9719.	0.9	13
31	Additional Thioflavin-T Binding Mode in Insulin Fibril Inner Core Region. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8727-8732.	1.2	17
32	Pro-Inflammatory S100A9 Protein Aggregation Promoted by NCAM1 Peptide Constructs. <i>ACS Chemical Biology</i> , 2019, 14, 1410-1417.	1.6	13
33	Amyloidophilic Molecule Interactions on the Surface of Insulin Fibrils: Cooperative Binding and Fluorescence Quenching. <i>Scientific Reports</i> , 2019, 9, 20303.	1.6	14
34	The Environment Is a Key Factor in Determining the Anti-Amyloid Efficacy of EGCG. <i>Biomolecules</i> , 2019, 9, 855.	1.8	32
35	Emergence of visible light optical properties of L-phenylalanine aggregates. <i>PeerJ</i> , 2019, 7, e6518.	0.9	9
36	Concentration-dependent polymorphism of insulin amyloid fibrils. <i>PeerJ</i> , 2019, 7, e8208.	0.9	20

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37	Exploring the potential of deep-blue autofluorescence for monitoring amyloid fibril formation and dissociation. PeerJ, 2019, 7, e7554.	0.9	9
38	Self-inhibition of insulin amyloid-like aggregation. Physical Chemistry Chemical Physics, 2018, 20, 27638-27645.	1.3	22
39	Polymorphism of Prion Protein Amyloid-Like Fibrils. Biophysical Journal, 2018, 114, 429a.	0.2	0
40	Artificial strain of human prions created in vitro. Nature Communications, 2018, 9, 2166.	5.8	33
41	Picomolar inhibitors of carbonic anhydrase: Importance of inhibition and binding assays. Analytical Biochemistry, 2017, 522, 61-72.	1.1	27
42	Finkeâ€™s Watzky Two-Step Nucleationâ€™ Autocatalysis Model of S100A9 Amyloid Formation: Protein Misfolding as â€™Nucleationâ€™ Event. ACS Chemical Neuroscience, 2017, 8, 2152-2158.	1.7	40
43	Flavone Derivatives as Inhibitors of Insulin Amyloid-Like Fibril Formation. PLoS ONE, 2015, 10, e0121231.	1.1	33
44	Polymorphism of amyloid-like fibrils can be defined by the concentration of seeds. PeerJ, 2015, 3, e1207.	0.9	17
45	pH-Driven Polymorphism of Insulin Amyloid-Like Fibrils. PLoS ONE, 2015, 10, e0136602.	1.1	53
46	Looking for a generic inhibitor of amyloid-like fibril formation among flavone derivatives. PeerJ, 2015, 3, e1271.	0.9	29
47	Elongation of Mouse Prion Protein Amyloid-Like Fibrils: Effect of Temperature and Denaturant Concentration. PLoS ONE, 2014, 9, e94469.	1.1	23
48	Conformational Stability of Mammalian Prion Protein Amyloid Fibrils Is Dictated by a Packing Polymorphism within the Core Region. Journal of Biological Chemistry, 2014, 289, 2643-2650.	1.6	46
49	Discovery and Characterization of Novel Selective Inhibitors of Carbonic Anhydrase IX. Journal of Medicinal Chemistry, 2014, 57, 9435-9446.	2.9	72
50	Amyloid-Like Fibril Elongation Follows Michaelis-Menten Kinetics. PLoS ONE, 2013, 8, e68684.	1.1	17
51	Structural organization of brain-derived mammalian prions examined by hydrogen-deuterium exchange. Nature Structural and Molecular Biology, 2011, 18, 504-506.	3.6	206
52	Distinct Structures of Scrapie Prion Protein (PrPSc)-seeded Versus Spontaneous Recombinant Prion Protein Fibrils Revealed by Hydrogen/Deuterium Exchange. Journal of Biological Chemistry, 2009, 284, 24233-24241.	1.6	78
53	Interplay between Hydrogen Bonding and Macromolecular Architecture Leading to Unusual Phase Behavior in Thermosensitive Microgels. Angewandte Chemie - International Edition, 2008, 47, 338-341.	7.2	90
54	Revealing Different Aggregation Pathways of Amyloidogenic Proteins by Ultrasound Velocimetry. Biophysical Journal, 2008, 94, 3241-3246.	0.2	34

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55	Copolymer Microgels from Mono- and Disubstituted Acrylamides: Phase Behavior and Hydrogen Bonds. <i>Macromolecules</i> , 2008, 41, 6830-6836.	2.2	63
56	Effect of Pressure on Islet Amyloid Polypeptide Aggregation: Revealing the Polymorphic Nature of the Fibrillation Process. <i>Biochemistry</i> , 2008, 47, 6352-6360.	1.2	53
57	Islet amyloid polypeptide and high hydrostatic pressure: towards an understanding of the fibrillization process. <i>Journal of Physics: Conference Series</i> , 2008, 121, 112002.	0.3	2
58	Cytotoxicity of Insulin within its Self-assembly and Amyloidogenic Pathways. <i>Journal of Molecular Biology</i> , 2007, 370, 372-384.	2.0	82
59	Effects of Lipid Confinement on Insulin Stability and Amyloid Formation. <i>Langmuir</i> , 2007, 23, 7118-7126.	1.6	34
60	The effects of various membrane physical-chemical properties on the aggregation kinetics of insulin. <i>Chemistry and Physics of Lipids</i> , 2007, 149, 28-39.	1.5	29
61	New Insights into the Self-Assembly of Insulin Amyloid Fibrils: An H^2D Exchange FT-IR Study. <i>Biochemistry</i> , 2006, 45, 8143-8151.	1.2	63
62	Solvation-assisted Pressure Tuning of Insulin Fibrillation: From Novel Aggregation Pathways to Biotechnological Applications. <i>Journal of Molecular Biology</i> , 2006, 356, 497-509.	2.0	106
63	Protein Amyloidogenesis in the Context of Volume Fluctuations: A Case Study on Insulin. <i>ChemPhysChem</i> , 2006, 7, 1046-1049.	1.0	36
64	A conformational α -helix to β -sheet transition accompanies racemic self-assembly of polylysine: an FT-IR spectroscopic study. <i>Biophysical Chemistry</i> , 2005, 115, 49-54.	1.5	44
65	Template-controlled conformational patterns of insulin fibrillar self-assembly reflect history of solvation of the amyloid nuclei. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1349.	1.3	35
66	Thermodynamic Properties Underlying the α -Helix-to- β -Sheet Transition, Aggregation, and Amyloidogenesis of Polylysine as Probed by Calorimetry, Densimetry, and Ultrasound Velocimetry. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19043-19045.	1.2	36
67	Ethanol-Perturbed Amyloidogenic Self-Assembly of Insulin: Looking for Origins of Amyloid Strains. <i>Biochemistry</i> , 2005, 44, 8948-8958.	1.2	111
68	Insulin forms amyloid in a strain-dependent manner: An FT-IR spectroscopic study. <i>Protein Science</i> , 2004, 13, 1927-1932.	3.1	125
69	Title is missing!. <i>Journal of Analytical Chemistry</i> , 2003, 58, 1038-1042.	0.4	8
70	Synthesis of new SAM-forming ferrocene derivatives and their interfacial properties on gold. <i>Tetrahedron Letters</i> , 2001, 42, 7691-7694.	0.7	18