Dieter Willbold

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2425863/publications.pdf

Version: 2024-02-01

333 papers	18,015 citations	41344 49 h-index	17105 122 g-index
363 all docs	363 docs citations	363 times ranked	30866 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
3	Fibril structure of amyloid-Î²(1â€“42) by cryoâ€“electron microscopy. Science, 2017, 358, 116-119.	12.6	801
4	Structure of Amyloid A4-(1-40)-Peptide of Alzheimer's Disease. FEBS Journal, 1995, 233, 293-298.	0.2	273
5	Precise measurement of diffusion by multi-color dual-focus fluorescence correlation spectroscopy. Europhysics Letters, 2008, 83, 46001.	2.0	229
6	Nix directly binds to GABARAP: A possible crosstalk between apoptosis and autophagy. Autophagy, 2009, 5, 690-698.	9.1	212
7	BEST-TROSY experiments for time-efficient sequential resonance assignment of large disordered proteins. Journal of Biomolecular NMR, 2013, 55, 311-321.	2.8	193
8	Pyroglutamate Formation Influences Solubility and Amyloidogenicity of Amyloid Peptides. Biochemistry, 2009, 48, 7072-7078.	2.5	171
9	The N-Terminus of Nef from HIV-1/SIV Associates with a Protein Complex Containing Lck and a Serine Kinase. Immunity, 1997, 6, 283-291.	14.3	160
10	Structural insights into ion conduction by channelrhodopsin 2. Science, 2017, 358, .	12.6	160
11	Selection of D-Amino-Acid Peptides That Bind to Alzheimer's Disease Amyloid Peptide AÎ²142 by Mirror Image Phage Display. ChemBioChem, 2003, 4, 748-753.	2.6	154
12	Crystal structure of a light-driven sodium pump. Nature Structural and Molecular Biology, 2015, 22, 390-395.	8.2	146
13	Mechanism of transmembrane signaling by sensor histidine kinases. Science, 2017, 356, .	12.6	132
14	Cryo-EM structure of islet amyloid polypeptide fibrils reveals similarities with amyloid-Î² fibrils. Nature Structural and Molecular Biology, 2020, 27, 660-667.	8.2	120
15	Reduction of Alzheimerâ€™s Disease Amyloid Plaque Load in Transgenic Mice by D3, a <scp>D</scp>â€Enantiomeric Peptide Identified by Mirror Image Phage Display. ChemMedChem, 2008, 3, 1848-1852.	3.2	115
16	Integral Membrane Proteins in Nanodiscs Can Be Studied by Solution NMR Spectroscopy. Journal of the American Chemical Society, 2009, 131, 12060-12061.	13.7	108
17	Oral Treatment with the <scp>d</scp>-Enantiomeric Peptide D3 Improves the Pathology and Behavior of Alzheimerâ€™s Disease Transgenic Mice. ACS Chemical Neuroscience, 2010, 1, 639-648.	3.5	107
18	Peptides for Therapy and Diagnosis of Alzheimer's Disease. Current Pharmaceutical Design, 2012, 18, 755-767.	1.9	102

#	Article	IF	Citations
19	Sequestration of a Î²â€Hairpin for Control of Î±â€Synuclein Aggregation. Angewandte Chemie - International Edition, 2014, 53, 4227-4230.	13.8	101
20	Amyloid-type Protein Aggregation and Prion-like Properties of Amyloids. Chemical Reviews, 2021, 121, 8285-8307.	47.7	98
21	Therapeutic Vaccination of HIV-1-Infected Patients on Haart with a Recombinant HIV-1Nef-Expressing Mva: Safety, Immunogenicity and Influence on Viral Load during Treatment Interruption. Antiviral Therapy, 2005, 10, 285-300.	1.0	90
22	Platelets contribute to amyloid-Î² aggregation in cerebral vessels through integrin Î± _{IIb} Î² ₃ â€“induced outside-in signaling and clusterin release. Science Signaling, 2016, 9, ra52.	3.6	89
23	Structural changes of membrane-anchored native PrP ^C. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10815-10819.	7.1	83
24	Probing Transient Conformational States of Proteins by Solidâ€State R<sub>1Ï<sub> Relaxationâ€Dispersion NMR Spectroscopy. Angewandte Chemie - International Edition, 2014, 53, 4312-4317.	13.8	81
25	Structural insights from lipid-bilayer nanodiscs link Î±-Synuclein membrane-binding modes to amyloid fibril formation. Communications Biology, 2018, 1, 44.	4.4	79
26	Mirror image phage displayâ€”a method to generate d-peptide ligands for use in diagnostic or therapeutical applications. Molecular BioSystems, 2009, 5, 783.	2.9	76
27	Origin of metastable oligomers and their effects on amyloid fibril self-assembly. Chemical Science, 2018, 9, 5937-5948.	7.4	76
28	Inhibition of cytotoxicity and amyloid fibril formation by a D-amino acid peptide that specifically binds to Alzheimer's disease amyloid peptide. Protein Engineering, Design and Selection, 2008, 21, 241-246.	2.1	74
29	Secondary Structure and Tertiary Fold of the Human Immunodeficiency Virus Protein U (Vpu) Cytoplasmic Domain in Solution. FEBS Journal, 1997, 245, 581-588.	0.2	73
30	Solution Structure of Human GABAA Receptor-associated Protein GABARAP. Journal of Biological Chemistry, 2002, 277, 13363-13366.	3.4	73
31	HIV-1 Nef Mimics an Integrin Receptor Signal that Recruits the Polycomb Group Protein Eed to the Plasma Membrane. Molecular Cell, 2004, 13, 179-190.	9.7	73
32	Revealing nano-chemistry at lattice defects in thermoelectric materials using atom probe tomography. Materials Today, 2020, 32, 260-274.	14.2	73
33	Sequence-independent Control of Peptide Conformation in Liposomal Vaccines for Targeting Protein Misfolding Diseases. Journal of Biological Chemistry, 2011, 286, 13966-13976.	3.4	67
34	Observing the overall rocking motion of a protein in a crystal. Nature Communications, 2015, 6, 8361.	12.8	67
35	Structural Insights into Curli CsgA Cross-Î² Fibril Architecture Inspire Repurposing of Anti-amyloid Compounds as Anti-biofilm Agents. PLoS Pathogens, 2019, 15, e1007978.	4.7	62
36	Oligomer Assembly of the C-Terminal DISC1 Domain (640â^'854) Is Controlled by Self-Association Motifs and Disease-Associated Polymorphism S704C. Biochemistry, 2009, 48, 7746-7755.	2.5	61

#	Article	IF	Citations
37	Mirror-image Phage Display: Aiming at the Mirror. ChemBioChem, 2003, 4, 811-815.	2.6	60
38	In vitro and inâ€…vivo Staining Characteristics of Small, Fluorescent, AÎ²42â€Binding <scp>D</scp>â€Enantiomeric Peptides in Transgenic AD Mouse Models. ChemMedChem, 2009, 4, 276-282.	3.2	60
39	The Amyloid-Î² Oligomer Count in Cerebrospinal Fluid is a Biomarker for Alzheimer's Disease. Journal of Alzheimer's Disease, 2013, 34, 985-994.	2.6	60
40	A comparative pharmaco-metabolomic study of glutaminase inhibitors in glioma stem-like cells confirms biological effectiveness but reveals differences in target-specificity. Cell Death Discovery, 2020, 6, 20.	4.7	58
41	Glutamic Acid-rich Proteins of Rod Photoreceptors Are Natively Unfolded*. Journal of Biological Chemistry, 2006, 281, 1449-1460.	3.4	57
42	Nanodiscs allow the use of integral membrane proteins as analytes in surface plasmon resonance studies. Analytical Biochemistry, 2011, 408, 46-52.	2.4	57
43	An N-Terminal Amphipathic Helix in Dengue Virus Nonstructural Protein 4A Mediates Oligomerization and Is Essential for Replication. Journal of Virology, 2013, 87, 4080-4085.	3.4	57
44	Identification of calreticulin as a ligand of GABARAP by phage display screening of a peptide library. FEBS Journal, 2007, 274, 5543-5555.	4.7	56
45	Monitoring amyloid-Î² proteins aggregation based on label-free aptasensor. Sensors and Actuators B: Chemical, 2019, 288, 535-542.	7.8	56
46	Structural Basis for the Slow Dark Recovery of a Full-Length LOV Protein from Pseudomonas putida. Journal of Molecular Biology, 2012, 417, 362-374.	4.2	54
47	An RTX Transporter Tethers Its Unfolded Substrate during Secretion via a Unique N-Terminal Domain. Structure, 2012, 20, 1778-1787.	3.3	54
48	Structure of the equine infectious anemia virus Tat protein. Science, 1994, 264, 1584-1587.	12.6	53
49	Direct In Vitro Binding of Full-Length Human Immunodeficiency Virus Type 1 Nef Protein to CD4 Cytoplasmic Domain. Journal of Virology, 2001, 75, 3960-3964.	3.4	53
50	Discovery and Structure Activity Relationship of Small Molecule Inhibitors of Toxic Î²-Amyloid-42 Fibril Formation. Journal of Biological Chemistry, 2012, 287, 34786-34800.	3.4	53
51	Single Fibril Growth Kinetics of Î±-Synuclein. Journal of Molecular Biology, 2015, 427, 1428-1435.	4.2	53
52	Transient Structure and SH3 Interaction Sites in an Intrinsically Disordered Fragment of the Hepatitis C Virus Protein NS5A. Journal of Molecular Biology, 2012, 420, 310-323.	4.2	49
53	Mechanism-based inhibition of an aldolase at high concentrations of its natural substrate acetaldehyde: structural insights and protective strategies. Chemical Science, 2016, 7, 4492-4502.	7.4	49
54	AÎ²42 pentamers/hexamers are the smallest detectable oligomers in solution. Scientific Reports, 2017, 7, 2493.	3.3	49

#	Article	IF	Citations
55	An engineered monomer binding-protein for Î±-synuclein efficiently inhibits the proliferation of amyloid fibrils. ELife, 2019, 8, .	6.0	49
56	Single particle detection of AÎ² aggregates associated with Alzheimerâ€™s disease. Biochemical and Biophysical Research Communications, 2007, 364, 902-907.	2.1	48
57	Ligand Binding Mode of GABAA Receptor-Associated Protein. Journal of Molecular Biology, 2008, 381, 1320-1331.	4.2	46
58	Characterizing the Effect of Multivalent Conjugates Composed of AÎ²-Specific Ligands and Metal Nanoparticles on Neurotoxic Fibrillar Aggregation. ACS Nano, 2016, 10, 7582-7597.	14.6	46
59	Amperometric Aptasensor for Amyloid-Î² Oligomer Detection by Optimized Stem-Loop Structures with an Adjustable Detection Range. ACS Sensors, 2019, 4, 3042-3050.	7.8	44
60	Generation of a Non-prolyl cis Peptide Bond in Ribonuclease T1. Journal of Molecular Biology, 1994, 240, 288-293.	4.2	43
61	Combining Independent Drug Classes into Superior, Synergistically Acting Hybrid Molecules. Angewandte Chemie - International Edition, 2010, 49, 8743-8746.	13.8	43
62	Solution structure of the X4 protein coded by the SARS related coronavirus reveals an immunoglobulin like fold and suggests a binding activity to integrin I domains. Journal of Biomedical Science, 2006, 13, 281-293.	7.0	42
63	Structural framework of the GABARAPâ€“calreticulin interfaceâ€ƒâ€“â€ƒimplications for substrate binding to endoplasmic reticulum chaperones. FEBS Journal, 2009, 276, 1140-1152.	4.7	42
64	The AÎ² oligomer eliminating D-enantiomeric peptide RD2 improves cognition without changing plaque pathology. Scientific Reports, 2017, 7, 16275.	3.3	42
65	Double-strand DNA end-binding and sliding of the toroidal CRISPR-associated protein Csn2. Nucleic Acids Research, 2013, 41, 6347-6359.	14.5	41
66	Structural insights into conformational changes of a cyclic nucleotide-binding domain in solution from Mesorhizobium loti K1 channel. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6121-6126.	7.1	40
67	Identification of Clathrin Heavy Chain as a Direct Interaction Partner for the Î³-Aminobutyric Acid Type A Receptor Associated Protein. Biochemistry, 2007, 46, 14537-14543.	2.5	39
68	Helix Formation in Arrestin Accompanies Recognition of Photoactivated Rhodopsin. Biochemistry, 2009, 48, 10733-10742.	2.5	39
69	Low-dose X-ray radiation induces structural alterations in proteins. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2675-2685.	2.5	39
70	High-Resolution Structure of a Membrane Protein Transferred from Amphipol to a Lipidic Mesophase. Journal of Membrane Biology, 2014, 247, 997-1004.	2.1	39
71	QIAD assay for quantitating a compoundâ€™s efficacy in elimination of toxic AÎ² oligomers. Scientific Reports, 2015, 5, 13222.	3.3	39
72	Counting of single prion particles bound to a capture-antibody surface (surface-FIDA). Veterinary Microbiology, 2007, 123, 294-304.	1.9	38

#	Article	IF	Citations
73	Binding modes of thioflavin T and Congo red to the fibril structure of amyloid-Î²(1â€“42). Chemical Communications, 2020, 56, 7589-7592.	4.1	38
74	Therapeutic vaccination of HIV-1-infected patients on HAART with a recombinant HIV-1 nef-expressing MVA: safety, immunogenicity and influence on viral load during treatment interruption. Antiviral Therapy, 2005, 10, 285-300.	1.0	37
75	Kinetic Titration Series with Biolayer Interferometry. PLoS ONE, 2014, 9, e106882.	2.5	36
76	Structure and function of a short LOV protein from the marine phototrophic bacterium Dinoroseobacter shibae. BMC Microbiology, 2015, 15, 30.	3.3	36
77	The Atg8 Family of Proteinsâ€”Modulating Shape and Functionality of Autophagic Membranes. Frontiers in Genetics, 2017, 8, 109.	2.3	36
78	Solution structure of the Mesorhizobium loti K1 channel cyclic nucleotideâ€binding domain in complex with cAMP. EMBO Reports, 2009, 10, 729-735.	4.5	35
79	Detection of Prion Protein Particles in Blood Plasma of Scrapie Infected Sheep. PLoS ONE, 2012, 7, e36620.	2.5	35
80	Treatment with D3 Removes Amyloid Deposits, Reduces Inflammation, and Improves Cognition in Aged AÎ²PP/PS1 Double Transgenic Mice. Journal of Alzheimer's Disease, 2013, 34, 609-620.	2.6	35
81	A magnetic nanoparticles relaxation sensor for proteinâ€“protein interaction detection at ultra-low magnetic field. Biosensors and Bioelectronics, 2016, 80, 661-665.	10.1	35
82	Pharmacokinetic Properties of a Novel d-Peptide Developed to be Therapeutically Active Against Toxic Î²-Amyloid Oligomers. Pharmaceutical Research, 2016, 33, 328-336.	3.5	35
83	Transport of Alzheimer Disease Amyloid-Î²-Binding <scp>d</scp>-Amino Acid Peptides across an In Vitro Bloodâ€“Brain Barrier Model. Rejuvenation Research, 2010, 13, 210-213.	1.8	34
84	Î²-Hairpin of Islet Amyloid Polypeptide Bound to an Aggregation Inhibitor. Scientific Reports, 2016, 6, 33474.	3.3	34
85	Structure and potential function of Î³â€aminobutyrate type A receptorâ€associated protein. FEBS Journal, 2009, 276, 4989-5005.	4.7	33
86	Pyroglutamate-modified AÎ²(3-42) affects aggregation kinetics of AÎ²(1-42) by accelerating primary and secondary pathways. Chemical Science, 2017, 8, 4996-5004.	7.4	33
87	Viral rhodopsins 1 areÂan unique family of light-gated cation channels. Nature Communications, 2020, 11, 5707.	12.8	33
88	Atomic structure of PI3-kinase SH3 amyloid fibrils by cryo-electron microscopy. Nature Communications, 2019, 10, 3754.	12.8	32
89	Selection and Characterization of Tau Binding á´…-Enantiomeric Peptides with Potential for Therapy of Alzheimer Disease. PLoS ONE, 2016, 11, e0167432.	2.5	32
90	Alternative Conformations of the Tau Repeat Domain in Complex with an Engineered Binding Protein. Journal of Biological Chemistry, 2014, 289, 23209-23218.	3.4	31

#	Article	IF	Citations
91	Monomeric Amyloid Beta Peptide in Hexafluoroisopropanol Detected by Small Angle Neutron Scattering. PLoS ONE, 2016, 11, e0150267.	2.5	31
92	Signaling States of a Short Blue-Light Photoreceptor Protein PpSB1-LOV Revealed from Crystal Structures and Solution NMR Spectroscopy. Journal of Molecular Biology, 2016, 428, 3721-3736.	4.2	31
93	Electrochemical dual-aptamer biosensors based on nanostructured multielectrode arrays for the detection of neuronal biomarkers. Nanoscale, 2020, 12, 16501-16513.	5.6	31
94	Single Vector System for Efficient N-myristoylation of Recombinant Proteins in E. coli. PLoS ONE, 2010, 5, e10081.	2.5	31
95	Solution Structure of a Hck SH3 Domain Ligand Complex Reveals Novel Interaction Modes. Journal of Molecular Biology, 2007, 365, 1517-1532.	4.2	30
96	Biofunctionalized Silica Nanoparticles: Standards in Amyloid-Î² Oligomer-Based Diagnosis of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2016, 54, 79-88.	2.6	30
97	Opposed Effects of Dityrosine Formation in Soluble and Aggregated Î±-Synuclein on Fibril Growth. Journal of Molecular Biology, 2017, 429, 3018-3030.	4.2	30
98	A Survey of Peptides with Effective Therapeutic Potential in Alzheimerâ€™s Disease Rodent Models or in Human Clinical Studies. Mini-Reviews in Medicinal Chemistry, 2012, 12, 388-398.	2.4	29
99	Preclinical Pharmacokinetic Studies of the Tritium Labelled D-Enantiomeric Peptide D3 Developed for the Treatment of AlzheimerÂ´s Disease. PLoS ONE, 2015, 10, e0128553.	2.5	29
100	Integral Membrane Proteins Can Be Crystallized Directly from Nanodiscs. Crystal Growth and Design, 2017, 17, 945-948.	3.0	29
101	AÎ² Oligomer Elimination Restores Cognition in Transgenic Alzheimerâ€™s Mice with Full-blown Pathology. Molecular Neurobiology, 2019, 56, 2211-2223.	4.0	29
102	Integrated NMR, Fluorescence, and Molecular Dynamics Benchmark Study of Protein Mechanics and Hydrodynamics. Journal of Physical Chemistry B, 2019, 123, 1453-1480.	2.6	29
103	Sequence-specific resonance assignments of the proton NMR spectra of a synthetic, biologically active EIAV-Tat Protein. Biochemistry, 1993, 32, 8439-8445.	2.5	28
104	Role of the Cys 2â€Cys 10 disulfide bond for the structure, stability, and folding kinetics of ribonuclease T1. Protein Science, 1994, 3, 227-239.	7.6	28
105	Structural rearrangements on HIV-1 Tat (32-72) TAR complex formation. FEBS Letters, 1996, 384, 255-259.	2.8	28
106	Tailoring the Antibody Response to Aggregated AÃŸ Using Novel Alzheimer-Vaccines. PLoS ONE, 2015, 10, e0115237.	2.5	28
107	The Repurposed Drugs Suramin and Quinacrine Cooperatively Inhibit SARS-CoV-2 3CLpro In Vitro. Viruses, 2021, 13, 873.	3.3	28
108	C-Src is required for complex formation between the hepatitis C virus-encoded proteins NS5A and NS5B: A prerequisite for replication. Hepatology, 2011, 53, 1127-1136.	7.3	27

#	Article	IF	Citations
109	Interaction of Bcl-2 with the Autophagy-related GABAA Receptor-associated Protein (GABARAP). Journal of Biological Chemistry, 2013, 288, 37204-37215.	3.4	27
110	Structural Analysis and Aggregation Propensity of Pyroglutamate AÎ²(3-40) in Aqueous Trifluoroethanol. PLoS ONE, 2015, 10, e0143647.	2.5	27
111	Preparation of a Functional GABARAPâ€"Lipid Conjugate in Nanodiscs and its Investigation by Solution NMR Spectroscopy. ChemBioChem, 2010, 11, 1967-1970.	2.6	26
112	The Off-rate of Monomers Dissociating from Amyloid-Î² Protofibrils. Journal of Biological Chemistry, 2013, 288, 37104-37111.	3.4	26
113	The mammalian autophagy initiator complex contains 2 HORMA domain proteins. Autophagy, 2015, 11, 2300-2308.	9.1	26
114	IQGAP1 Interaction with RHO Family Proteins Revisited. Journal of Biological Chemistry, 2016, 291, 26364-26376.	3.4	26
115	High-Affinity Binding of Monomeric but Not Oligomeric Amyloid-Î² to Ganglioside GM1 Containing Nanodiscs. Biochemistry, 2016, 55, 6662-6672.	2.5	26
116	Large-Scale Oral Treatment Study with the Four Most Promising D3-Derivatives for the Treatment of Alzheimerâ€™s Disease. Molecules, 2017, 22, 1693.	3.8	26
117	Safety and pharmacokinetics of the orally available antiprionic compound PRIâ€002: A single and multiple ascending dose phase I study. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2020, 6, e12001.	3.7	26
118	Reciprocal regulation of the cholinic phenotype and epithelial-mesenchymal transition in glioblastoma cells. Oncotarget, 2016, 7, 73414-73431.	1.8	26
119	Amyloid Aggregation Inhibitory Mechanism of Arginine-rich D-peptides. Current Medicinal Chemistry, 2014, 21, 1448-1457.	2.4	26
120	Insights into Human Lck SH3 Domain Binding Specificity:â€‰ Different Binding Modes of Artificial and Native Ligands. Biochemistry, 2005, 44, 15042-15052.	2.5	25
121	An Indoleâ€Binding Site is a Major Determinant of the Ligand Specificity of the GABA Type A Receptorâ€Associated Protein GABARAP. ChemBioChem, 2008, 9, 1767-1775.	2.6	25
122	Atom Probe Tomography of Compound Semiconductors for Photovoltaic and Light-Emitting Device Applications. Microscopy Today, 2012, 20, 18-24.	0.3	25
123	Contact between the Î²1 and Î²2 Segments of Î±â€Synuclein that Inhibits Amyloid Formation. Angewandte Chemie - International Edition, 2015, 54, 8837-8840.	13.8	25
124	Zika virus NS2B/NS3 proteinase: A new target for an old drug - Suramin a lead compound for NS2B/NS3 proteinase inhibition-. Antiviral Research, 2018, 160, 118-125.	4.1	25
125	Metabolic resistance of the D-peptide RD2 developed for direct elimination of amyloid-Î² oligomers. Scientific Reports, 2019, 9, 5715.	3.3	25
126	Equine infectious anemia virus Tat is a predominantly helical protein. FEBS Journal, 1993, 218, 973-976.	0.2	24

#	Article	IF	Citations
127	Trifluoroethanol Stabilizes a Helix-Turn-Helix Motif in Equine Infectious-Anemia-Virus Trans -Activator Protein. FEBS Journal, 1994, 225, 855-861.	0.2	24
128	SARS-CoV accessory protein 7a directly interacts with human LFA-1. Biological Chemistry, 2007, 388, 1325-1332.	2.5	24
129	A Î²â€Hairpinâ€Binding Protein for Three Different Diseaseâ€Related Amyloidogenic Proteins. ChemBioChem, 2015, 16, 411-414.	2.6	24
130	Increase of Positive Net Charge and Conformational Rigidity Enhances the Efficacy of <scp>d</scp>-Enantiomeric Peptides Designed to Eliminate Cytotoxic AÎ² Species. ACS Chemical Neuroscience, 2016, 7, 1088-1096.	3.5	24
131	Solution structure of Atg8 reveals conformational polymorphism of the N-terminal domain. Biochemical and Biophysical Research Communications, 2010, 395, 426-431.	2.1	23
132	Mirror image phage display â€“ Generating stable therapeutically and diagnostically active peptides with biotechnological means. Journal of Biotechnology, 2012, 161, 121-125.	3.8	23
133	Development of a Small D-Enantiomeric Alzheimerâ€™s Amyloid-Î² Binding Peptide Ligand for Future In Vivo Imaging Applications. PLoS ONE, 2012, 7, e41457.	2.5	23
134	Structural details of amyloid Î² oligomers in complex with human prion protein as revealed by solid-state MAS NMR spectroscopy. Journal of Biological Chemistry, 2021, 296, 100499.	3.4	23
135	The Uppsala APP deletion causes early onset autosomal dominant Alzheimerâ€™s disease by altering APP processing and increasing amyloid Î² fibril formation. Science Translational Medicine, 2021, 13, .	12.4	23
136	Detection of Amyloid-β Aggregates in Body Fluids: A Suitable Method for Early Diagnosis of Alzheimers Disease?. Current Alzheimer Research, 2009, 6, 285-289.	1.4	22
137	Differently Selected <scp>d</scp>-Enantiomeric Peptides Act on Different AÎ² Species. Rejuvenation Research, 2010, 13, 202-205.	1.8	22
138	The D-amino acid peptide D3 reduces amyloid fibril boosted HIV-1 infectivity. AIDS Research and Therapy, 2014, 11, 1.	1.7	22
139	Application of an Amyloid Beta Oligomer Standard in the sFIDA Assay. Frontiers in Neuroscience, 2016, 10, 8.	2.8	22
140	A structural organization for the Disrupted in Schizophrenia 1 protein, identified by high-throughput screening, reveals distinctly folded regions, which are bisected by mental illness-related mutations. Journal of Biological Chemistry, 2017, 292, 6468-6477.	3.4	22
141	Pyroglutamate-Modified Amyloid-Î²(3â€“42) Shows Î±-Helical Intermediates before Amyloid Formation. Biophysical Journal, 2017, 112, 1621-1633.	0.5	22
142	Cloning, High-Yield Expression inEscherichia coli,and Purification of Biologically Active HIV-1 Tat Protein. Protein Expression and Purification, 1996, 8, 75-84.	1.3	21
143	Competitive displacement of full-length HIV-1 Nef from the Hck SH3 domain by a high-affinity artificial peptide. Biological Chemistry, 2007, 388, 611-615.	2.5	21
144	Binding of TCA to the Prion Protein: Mechanism, Implication for Therapy, and Application as Probe for Complex Formation of Bio-macromolecules. Journal of Biomolecular Structure and Dynamics, 2009, 27, 163-170.	3.5	21

#	Article	IF	Citations
145	Treatment with AÎ²42 Binding d-Amino Acid Peptides Reduce Amyloid Deposition and Inflammation in APP/PS1 Double Transgenic Mice. Advances in Protein Chemistry and Structural Biology, 2012, 88, 133-152.	2.3	21
146	Interaction of Nonstructural Protein 5A of the Hepatitis C Virus with Src Homology 3 Domains Using Noncanonical Binding Sites. Biochemistry, 2013, 52, 6160-6168.	2.5	21
147	Engineered aggregation inhibitor fusion for production of highly amyloidogenic human islet amyloid polypeptide. Journal of Biotechnology, 2014, 191, 221-227.	3.8	21
148	Amino Terminal Region of Dengue Virus NS4A Cytosolic Domain Binds to Highly Curved Liposomes. Viruses, 2015, 7, 4119-4130.	3.3	21
149	Amyloid Î² Oligomeric Species Present in the Lag Phase of Amyloid Formation. PLoS ONE, 2015, 10, e0127865.	2.5	21
150	Purification and Characterization of Recombinant N-Terminally Pyroglutamate-Modified Amyloid-Î² Variants and Structural Analysis by Solution NMR Spectroscopy. PLoS ONE, 2015, 10, e0139710.	2.5	21
151	Pharmacokinetic properties of tandem d-peptides designed for treatment of Alzheimer's disease. European Journal of Pharmaceutical Sciences, 2016, 89, 31-38.	4.0	21
152	Blood-brain barrier penetration of an AÎ²-targeted, arginine-rich, d -enantiomeric peptide. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 2717-2724.	2.6	21
153	Nanoparticle standards for immuno-based quantitation of Î±-synuclein oligomers in diagnostics of Parkinson's disease and other synucleinopathies. Clinica Chimica Acta, 2017, 466, 152-159.	1.1	21
154	Surprisingly high stability of the AÎ² oligomer eliminating all-d-enantiomeric peptide D3 in media simulating the route of orally administered drugs. European Journal of Pharmaceutical Sciences, 2017, 107, 203-207.	4.0	21
155	A d-enantiomeric peptide interferes with heteroassociation of amyloid-Î² oligomers and prion protein. Journal of Biological Chemistry, 2018, 293, 15748-15764.	3.4	21
156	True-atomic-resolution insights into the structure and functional role of linear chains and low-barrier hydrogen bonds in proteins. Nature Structural and Molecular Biology, 2022, 29, 440-450.	8.2	21
157	The Interaction of HIV-1 Tat(32-72) with its Target RNA: A Fluorescence and Nuclear Magnetic Resonance Study. Biochemical and Biophysical Research Communications, 1997, 241, 31-36.	2.1	20
158	Solution structure of human immunodeficiency virus type 1 Vpr(13-33) peptide in micelles. FEBS Journal, 2001, 268, 389-395.	0.2	20
159	NMR structural characterization of HIVâ€1 virus protein U cytoplasmic domain in the presence of dodecylphosphatidylcholine micelles. FEBS Journal, 2009, 276, 6560-6575.	4.7	20
160	Structural analysis of the pyroglutamateâ€modified isoform of the Alzheimer's diseaseâ€related amyloidâ€Î² using NMR spectroscopy. Journal of Peptide Science, 2012, 18, 691-695.	1.4	20
161	Dengue virus NS4A cytoplasmic domain binding to liposomes is sensitive to membrane curvature. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1119-1126.	2.6	20
162	The Nedd4â€“1 WW Domain Recognizes the PY Motif Peptide through Coupled Folding and Binding Equilibria. Biochemistry, 2016, 55, 659-674.	2.5	20

#	Article	IF	Citations
163	Optimization of <scp>d</scp>-Peptides for AÎ² Monomer Binding Specificity Enhances Their Potential to Eliminate Toxic AÎ² Oligomers. ACS Chemical Neuroscience, 2017, 8, 1889-1900.	3.5	20
164	A near atomic-scale view at the composition of amyloid-beta fibrils by atom probe tomography. Scientific Reports, 2018, 8, 17615.	3.3	20
165	High-affinity binding and catalytic activity of His/Tyr-based sequences: Extending heme-regulatory motifs beyond CP. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129603.	2.4	20
166	Optimization of the All-D Peptide D3 for AÎ² Oligomer Elimination. PLoS ONE, 2016, 11, e0153035.	2.5	20
167	Spontaneous and BSE-prion-seeded amyloid formation of full length recombinant bovine prion protein. Biochemical and Biophysical Research Communications, 2008, 373, 493-497.	2.1	19
168	NMR structure of the transmembrane and cytoplasmic domains of human CD4 in micelles. Biochimica Et Biophysica Acta - Biomembranes, 2010, 1798, 122-127.	2.6	19
169	The Disordered Region of the HCV Protein NS5A: Conformational Dynamics, SH3 Binding, and Phosphorylation. Biophysical Journal, 2015, 109, 1483-1496.	0.5	19
170	Brain Transcriptome-Wide Screen for HIV-1 Nef Protein Interaction Partners Reveals Various Membrane-Associated Proteins. PLoS ONE, 2012, 7, e51578.	2.5	19
171	Structural studies on tRNA acceptor stem microhelices: exchange of the discriminator base A73 for G in human tRNALeu switches the acceptor specificity from leucine to serine possibly by decreasing the stability of the terminal G1-C72 base pair. Nucleic Acids Research, 1997, 25, 4551-4556.	14.5	18
172	Sequence-specific 1H, 13C and 15N resonance assignments of human GABA receptor associated protein. Journal of Biomolecular NMR, 2001, 21, 183-184.	2.8	18
173	iHADAMAC: A complementary tool for sequential resonance assignment of globular and highly disordered proteins. Journal of Magnetic Resonance, 2012, 214, 329-334.	2.1	18
174	Seeded Fibrillation as Molecular Basis of the Species Barrier in Human Prion Diseases. PLoS ONE, 2013, 8, e72623.	2.5	18
175	Structure of human immunodeficiency virus type 1 Vpr(34-51) peptide in micelle containing aqueous solution. FEBS Journal, 2002, 269, 3264-3269.	0.2	17
176	Full Length Vpu from HIV-1: Combining Molecular Dynamics Simulations with NMR Spectroscopy. Journal of Biomolecular Structure and Dynamics, 2006, 23, 485-496.	3.5	17
177	Comparative modeling of human NSF reveals a possible binding mode of GABARAP and GATEâ€16. Proteins: Structure, Function and Bioinformatics, 2009, 77, 637-646.	2.6	17
178	Modulation of aggregate size- and shape-distributions of the amyloid-Î² peptide by a designed Î²-sheet breaker. European Biophysics Journal, 2010, 39, 415-422.	2.2	17
179	Structural studies of the phosphatidylinositol 3-kinase (PI3K) SH3 domain in complex with a peptide ligand: role of the anchor residue in ligand binding. Biological Chemistry, 2010, 391, 33-42.	2.5	17
180	Single-Particle Detection System for AÎ² Aggregates: Adaptation of Surface-Fluorescence Intensity Distribution Analysis to Laser Scanning Microscopy. Rejuvenation Research, 2010, 13, 206-209.	1.8	17

#	Article	IF	Citations
181	Conformational Polymorphism in Autophagy-Related Protein GATE-16. Biochemistry, 2015, 54, 5469-5479.	2.5	17
182	Enhancing the Catalytic Deamination Activity of APOBEC3C Is Insufficient to Inhibit Vif-Deficient HIV-1. Journal of Molecular Biology, 2017, 429, 1171-1191.	4.2	17
183	Relevance of N-terminal residues for amyloid-Î² binding to platelet integrin Î± IIb Î² 3 , integrin outside-in signaling and amyloid-Î² fibril formation. Cellular Signalling, 2018, 50, 121-130.	3.6	17
184	Mechanistic Basis of the Fast Dark Recovery of the Short LOV Protein DsLOV from Dinoroseobacter shibae. Biochemistry, 2018, 57, 4833-4847.	2.5	17
185	In vitro study of Hesperetin and Hesperidin as inhibitors of zika and chikungunya virus proteases. PLoS ONE, 2021, 16, e0246319.	2.5	17
186	Presence of a Helix in Human CD4 Cytoplasmic Domain Promotes Binding to HIV-1 Nef Protein. Biochemical and Biophysical Research Communications, 2002, 292, 734-740.	2.1	16
187	Fluorine-18 labeling of three novel d-peptides by conjugation with N-succinimidyl-4-[18F]fluorobenzoate and preliminary examination by postmortem whole-hemisphere human brain autoradiography. Nuclear Medicine and Biology, 2012, 39, 315-323.	0.6	16
188	Structure of a LOV protein in apo-state and implications for construction of LOV-based optical tools. Scientific Reports, 2017, 7, 42971.	3.3	16
189	Toward the Mode of Action of the Clinical Stage All-<scp>d</scp>-Enantiomeric Peptide RD2 on AÎ²42 Aggregation. ACS Chemical Neuroscience, 2019, 10, 4800-4809.	3.5	16
190	Structural Model of the HIV-1 Tat(46â€“58)-TAR Complex. Journal of Biomolecular Structure and Dynamics, 1998, 16, 683-692.	3.5	15
191	Relaxation Behavior Study of Ultrasmall Superparamagnetic Iron Oxide Nanoparticles at Ultralow and Ultrahigh Magnetic Fields. Journal of Physical Chemistry B, 2011, 115, 14789-14793.	2.6	15
192	Mapping the interaction between the cytoplasmic domains of <scp>HIV</scp>â€•1 viral proteinÂ<scp>U</scp> and human <scp>CD</scp>4 with <scp>NMR</scp> spectroscopy. FEBS Journal, 2012, 279, 3705-3714.	4.7	15
193	Conservation of Dark Recovery Kinetic Parameters and Structural Features in the Pseudomonadaceae â€œShortâ€•Light, Oxygen, Voltage (LOV) Protein Family: Implications for the Design of LOV-Based Optogenetic Tools. Biochemistry, 2013, 52, 4460-4473.	2.5	15
194	Assembling an ion channel: ORF 3a from SARSâ€CoV. Biopolymers, 2013, 99, 628-635.	2.4	15
195	Conformational Sampling of the Intrinsically Disordered C-Terminal Tail of DERA Is Important for Enzyme Catalysis. ACS Catalysis, 2018, 8, 3971-3984.	11.2	15
196	Solution structure of the autophagy-related protein LC3C reveals a polyproline II motif on a mobile tether with phosphorylation site. Scientific Reports, 2019, 9, 14167.	3.3	15
197	Do We Need Anti-Prion Compounds to Treat Alzheimerâ€™s Disease?. Molecules, 2019, 24, 2237.	3.8	15
198	Reelin Amplifies Glycoprotein VI Activation and AlphaIIb Beta3 Integrin Outside-In Signaling via PLC Gamma 2 and Rho GTPases. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 2391-2403.	2.4	15

#	Article	IF	Citations
199	The intramolecular allostery of GRB2 governing its interaction with SOS1 is modulated by phosphotyrosine ligands. Biochemical Journal, 2021, 478, 2793-2809.	3.7	15
200	Modern High Resolution NMR for the Study of Structure, Dynamics and Interactions of Biological Macromolecules. Zeitschrift Fur Physikalische Chemie, 2006, 220, 567-613.	2.8	14
201	Machine-learning-enhanced time-of-flight mass spectrometry analysis. Patterns, 2021, 2, 100192.	5.9	14
202	Nanodiscs Allow Phage Display Selection for Ligands to Non-Linear Epitopes on Membrane Proteins. PLoS ONE, 2013, 8, e72272.	2.5	14
203	Solution structure of the human CD4 (403â€“419) receptor peptide. Journal of Biomedical Science, 1996, 3, 435-441.	7.0	13
204	Purification of recombinantly expressed and cytotoxic human amyloid-beta peptide 1â€“42. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 856, 229-233.	2.3	13
205	Structural consequences of phosphorylation of two serine residues in the cytoplasmic domain of HIVâ€1 VpU. Journal of Peptide Science, 2008, 14, 804-810.	1.4	13
206	Inhibition of amyloid AÎ² aggregation by high pressures or specific<scp>d</scp>-enantiomeric peptides. Chemical Communications, 2018, 54, 3294-3297.	4.1	13
207	Structure of the SLy1 SAM homodimer reveals a new interface for SAM domain self-association. Scientific Reports, 2019, 9, 54.	3.3	13
208	Deceleration of the neurodegenerative phenotype in pyroglutamate-AÎ² accumulating transgenic mice by oral treatment with the AÎ² oligomer eliminating compound RD2. Neurobiology of Disease, 2019, 124, 36-45.	4.4	13
209	Quantitative detection of Î±-Synuclein and Tau oligomers and other aggregates by digital single particle counting. Npj Parkinson's Disease, 2022, 8, .	5.3	13
210	An Ultrasensitive Assay for Diagnosis of Alzheimer's Disease. Rejuvenation Research, 2008, 11, 315-318.	1.8	12
211	Transient reduction of spontaneous neuronal network activity by sublethal amyloid Î² (1â€“42) peptide concentrations. Journal of Neural Transmission, 2009, 116, 351-355.	2.8	12
212	Insights into the Mechanism of Ligand Binding to Octopine Dehydrogenase from Pecten maximus by NMR and Crystallography. PLoS ONE, 2010, 5, e12312.	2.5	12
213	Size and Compositional Effects on Contrast Efficiency of Functionalized Superparamagnetic Nanoparticles at Ultralow and Ultrahigh Magnetic Fields. Journal of Physical Chemistry C, 2012, 116, 17880-17884.	3.1	12
214	Competitive Mirror Image Phage Display Derived Peptide Modulates Amyloid Beta Aggregation and Toxicity. PLoS ONE, 2016, 11, e0147470.	2.5	12
215	Role of Hydrophobicity and Charge of Amyloid-Beta Oligomer Eliminating <scp>d</scp>-Peptides in the Interaction with Amyloid-Beta Monomers. ACS Chemical Neuroscience, 2018, 9, 2679-2688.	3.5	12
216	Immobilization of Homogeneous Monomeric, Oligomeric and Fibrillar AÎ² Species for Reliable SPR Measurements. PLoS ONE, 2014, 9, e89490.	2.5	12

#	Article	IF	Citations
217	AÎ² oligomer concentration in mouse and human brain and its drug-induced reduction exÂvivo. Cell Reports Medicine, 2022, 3, 100630.	6.5	12
218	Is EIAV Tat Protein a Homeodomain?. Science, 1996, 272, 1672-0.	12.6	11
219	Structure determination of human Lck unique and SH3 domains by nuclear magnetic resonance spectroscopy. , 2003, 3, 3.		11
220	Full-length Vpu and human CD4(372â€“433) in phospholipid bilayers as seen by magic angle spinning NMR. Biological Chemistry, 2013, 394, 1453-1463.	2.5	11
221	Progress towards structural understanding of infectious sheep PrP-amyloid. Prion, 2014, 8, 344-358.	1.8	11
222	Direct binding to GABARAP family members is essential for HIV-1 Nef plasma membrane localization. Scientific Reports, 2017, 7, 5979.	3.3	11
223	Analysis of anticoagulants for blood-based quantitation of amyloid Î² oligomers in the sFIDA assay. Biological Chemistry, 2017, 398, 465-475.	2.5	11
224	Comparison of blood-brain barrier penetration efficiencies between linear and cyclic all-d-enantiomeric peptides developed for the treatment of Alzheimer's disease. European Journal of Pharmaceutical Sciences, 2018, 114, 93-102.	4.0	11
225	Interference with Amyloid-Î² Nucleation by Transient Ligand Interaction. Molecules, 2019, 24, 2129.	3.8	11
226	Molecular Dynamics Simulation of Equine Infectious Anemia Virus Tat Protein in Water and in 40% Trifluoroethanol. Journal of Biomolecular Structure and Dynamics, 1994, 12, 19-36.	3.5	10
227	Structural characterization of the transmembrane and cytoplasmic domains of human CD4. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 2949-2960.	2.6	10
228	Assessment of GABARAP self-association by its diffusion properties. Journal of Biomolecular NMR, 2010, 48, 49-58.	2.8	10
229	sFIDA automation yields sub-femtomolar limit of detection for AÎ² aggregates in body fluids. Clinical Biochemistry, 2017, 50, 244-247.	1.9	10
230	Advancements of the <scp>sFIDA</scp> method for oligomerâ€based diagnostics of neurodegenerative diseases. FEBS Letters, 2018, 592, 516-534.	2.8	10
231	Comprehensive Characterization of the Pyroglutamate Amyloid-Î² Induced Motor Neurodegenerative Phenotype of TBA2.1 Mice. Journal of Alzheimer's Disease, 2018, 63, 115-130.	2.6	10
232	In Vitro Potency and Preclinical Pharmacokinetic Comparison of All-D-Enantiomeric Peptides Developed forÂthe Treatment of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2018, 64, 859-873.	2.6	10
233	Interaction Mode of the Novel Monobactam AIC499 Targeting Penicillin Binding Protein 3 of Gram-Negative Bacteria. Biomolecules, 2021, 11, 1057.	4.0	10
234	Molecular Interactions between Prions as Seeds and Recombinant Prion Proteins as Substrates Resemble the Biological Interspecies Barrier In Vitro. PLoS ONE, 2010, 5, e14283.	2.5	10

#	Article	IF	Citations
235	1H, 13C, and 15N resonance assignment of a 179 residue fragment of hepatitis C virus non-structural protein 5A. Biomolecular NMR Assignments, 2011, 5, 241-243.	0.8	9
236	Analysis of prion protein aggregates in blood and brain from pre-clinical and clinical BSE cases. Veterinary Microbiology, 2013, 166, 102-108.	1.9	9
237	AÎ² oligomer eliminating compounds interfere successfully with pEAÎ²(3â€“42) induced motor neurodegenerative phenotype in transgenic mice. Neuropeptides, 2018, 67, 27-35.	2.2	9
238	Structural determinants underlying the adduct lifetime in the LOV proteins of Pseudomonas putida. FEBS Journal, 2021, 288, 4955-4972.	4.7	9
239	Promising Natural Compounds against Flavivirus Proteases: Citrus Flavonoids Hesperetin and Hesperidin. Plants, 2021, 10, 2183.	3.5	9
240	Alpha-Synuclein-Specific Naturally Occurring Antibodies Inhibit Aggregation In Vitro and In Vivo. Biomolecules, 2022, 12, 469.	4.0	9
241	Conformational heterogeneity coupled with Î²-fibril formation of a scaffold protein involved in chronic mental illnesses. Translational Psychiatry, 2021, 11, 639.	4.8	9
242	Design of D-Amino Acids SARS-CoV-2 Main Protease Inhibitors Using the Cationic Peptide from Rattlesnake Venom as a Scaffold. Pharmaceuticals, 2022, 15, 540.	3.8	9
243	Biological activity and intracellular location of the Tat protein of equine infectious anemia virus. Gene, 1994, 150, 307-311.	2.2	8
244	Equine infectious anemia virus transactivator is a homeodomain-type protein 1 1Edited by J. Karn. Journal of Molecular Biology, 1998, 277, 749-755.	4.2	8
245	Identification and Characterization of an AÎ² Oligomer Precipitating Peptide That May Be Useful to Explore Gene Therapeutic Approaches to Alzheimer Disease. Rejuvenation Research, 2012, 15, 144-147.	1.8	8
246	A synthetic amino acid substitution of Tyr10 in AÎ² peptide sequence yields a dominant negative variant in amyloidogenesis. Aging Cell, 2012, 11, 530-541.	6.7	8
247	Distribution and binding of 18F-labeled and 125I-labeled analogues of ACI-80, a prospective molecular imaging biomarker of disease: A whole hemisphere post mortem autoradiography study in human brains obtained from Alzheimerâ€™s disease patients. Neurochemistry International, 2012, 60, 153-162.	3.8	8
248	Hepatitis C virus NS5A is able to competitively displace c-Myc from the Bin1 SH3 domainin vitro. Journal of Peptide Science, 2014, 20, 334-340.	1.4	8
249	Nanoparticle Surface-Enhanced Raman Scattering of Bacteriorhodopsin Stabilized by Amphipol A8-35. Journal of Membrane Biology, 2014, 247, 971-980.	2.1	8
250	Fluorescence correlation spectroscopy reveals a cooperative unfolding of monomeric amyloid-Î² 42 with a low Gibbs free energy. Scientific Reports, 2017, 7, 2154.	3.3	8
251	The highly GABARAP specific rat monoclonal antibody 8H5 visualizes GABARAP in immunofluorescence imaging at endogenous levels. Scientific Reports, 2019, 9, 526.	3.3	8
252	Overexpression of Cystine/Glutamate Antiporter xCT Correlates with Nutrient Flexibility and ZEB1 Expression in Highly Clonogenic Glioblastoma Stem-like Cells (GSCs). Cancers, 2021, 13, 6001.	3.7	8

#	Article	IF	Citations
253	A Computer-Aided Approach for the Discovery of D-Peptides as Inhibitors of SARS-CoV-2 Main Protease. Frontiers in Molecular Biosciences, 2021, 8, 816166.	3.5	8
254	A Selection System to Study Proteinâ€"RNA Interactions: Functional Display of HIV-1 Tat Protein on Filamentous Bacteriophage M13. Biochemical and Biophysical Research Communications, 1997, 235, 806-811.	2.1	7
255	Nonaqueousversus aqueous capillary electrophoresis of Î±-helical polypeptides: Effect of secondary structure on separation selectivity. Electrophoresis, 2006, 27, 1768-1775.	2.4	7
256	Expression, purification, and membrane reconstitution of a CD4 fragment comprising the transmembrane and cytoplasmic domains of the receptor. Protein Expression and Purification, 2007, 55, 198-207.	1.3	7
257	Resonance assignment of the cyclic nucleotide binding domain from a cyclic nucleotide-gated K+ channel in complex with cAMP. Biomolecular NMR Assignments, 2007, 1, 179-181.	0.8	7
258	Recombinant Production of the Amino Terminal Cytoplasmic Region of Dengue Virus Non-Structural Protein 4A for Structural Studies. PLoS ONE, 2014, 9, e86482.	2.5	7
259	Accurate Diffusion Coefficients of Organosoluble Reference Dyes in Organic Media Measured by Dual-Focus Fluorescence Correlation Spectroscopy. ACS Nano, 2015, 9, 7360-7373.	14.6	7
260	The GABARAP Co-Secretome Identified by APEX2-GABARAP Proximity Labelling of Extracellular Vesicles. Cells, 2020, 9, 1468.	4.1	7
261	Rapid ¹⁸F-labeling via Pd-catalyzed S-arylation in aqueous medium. Chemical Communications, 2021, 57, 3547-3550.	4.1	7
262	Ligand-Induced Stabilization of the Native Human Superoxide Dismutase 1. ACS Chemical Neuroscience, 2021, 12, 2520-2528.	3.5	7
263	Biophysical insights from a single chain camelid antibody directed against the Disrupted-in-Schizophrenia 1 protein. PLoS ONE, 2018, 13, e0191162.	2.5	7
264	Lack of GABARAP-Type Proteins Is Accompanied by Altered Golgi Morphology and Surfaceome Composition. International Journal of Molecular Sciences, 2021, 22, 85.	4.1	7
265	All-d-Enantiomeric Peptide D3 Designed for Alzheimerâ€™s Disease Treatment Dynamically Interacts with Membrane-Bound Amyloid-Î² Precursors. Journal of Medicinal Chemistry, 2021, 64, 16464-16479.	6.4	7
266	Interaction of Therapeutic <scp>d</scp>-Peptides with AÎ²42 Monomers, Thermodynamics, and Binding Analysis. ACS Chemical Neuroscience, 2022, 13, 1638-1650.	3.5	7
267	Nef protein of human immunodeficiency virus type 1 binds its own myristoylated N-terminus. Biological Chemistry, 2007, 388, 181-183.	2.5	6
268	Aggregation and Amyloid Fibril Formation of the Prion Protein Is Accelerated in the Presence of Glycogen. Rejuvenation Research, 2008, 11, 365-369.	1.8	6
269	Structural characterization of GABARAPâ€"ligand interactions. Molecular BioSystems, 2009, 5, 575.	2.9	6
270	Amyloid Formation: Age-Related Mechanism in Creutzfeldtâ€"Jakob Disease?. Rejuvenation Research, 2010, 13, 214-216.	1.8	6

#	Article	IF	Citations
271	In vitro conversion and seeded fibrillization of posttranslationally modified prion protein. Biological Chemistry, 2011, 392, 415-21.	2.5	6
272	Detection of Î±-Synuclein Aggregates by Fluorescence Microscopy. Rejuvenation Research, 2012, 15, 213-216.	1.8	6
273	Characterization of a Single-Chain Variable Fragment Recognizing a Linear Epitope of AÎ²: A Biotechnical Tool for Studies on Alzheimerâ€™s Disease?. PLoS ONE, 2013, 8, e59820.	2.5	6
274	The effect of neurosphere culture conditions on the cellular metabolism of glioma cells. Folia Neuropathologica, 2015, 3, 219-225.	1.2	6
275	A Novel Anti-Inflammatory d-Peptide Inhibits Disease Phenotype Progression in an ALS Mouse Model. Molecules, 2021, 26, 1590.	3.8	6
276	In Vitro and In Vivo Efficacies of the Linear and the Cyclic Version of an All-d-Enantiomeric Peptide Developed for the Treatment of Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2021, 22, 6553.	4.1	6
277	Tryptophan (W) at position 37 of murine IL-12/IL-23 p40 is mandatory for binding to IL-12RÎ²1 and subsequent signal transduction. Journal of Biological Chemistry, 2021, 297, 101295.	3.4	6
278	Sequence-specific 1H, 13C, and 15N resonance assignment of the autophagy-related protein Atg8. Biomolecular NMR Assignments, 2009, 3, 137-139.	0.8	5
279	Multiple <scp>WW</scp> domains of Nedd4â€1 undergo conformational exchange that is quenched upon peptide binding. FEBS Letters, 2017, 591, 1573-1583.	2.8	5
280	Investigating Structure and Dynamics of Atg8 Family Proteins. Methods in Enzymology, 2017, 587, 115-142.	1.0	5
281	Phosphorylated tyrosine 93 of hepatitis C virus nonstructural protein 5A is essential for interaction with host c-Src and efficient viral replication. Journal of Biological Chemistry, 2019, 294, 7388-7402.	3.4	5
282	Comparison of the Amyloid Load in the Brains of Two Transgenic Alzheimerâ€™s Disease Mouse Models Quantified by Florbetaben Positron Emission Tomography. Frontiers in Neuroscience, 2021, 15, 699926.	2.8	5
283	Structural basis for the inhibition of IAPP fibril formation by the co-chaperonin prefoldin. Nature Communications, 2022, 13, 2363.	12.8	5
284	The Tat protein of equine infectious anemia virus (EIAV) activates cellular gene expression by read-through transcription. Gene, 1998, 219, 25-35.	2.2	4
285	Mapping the binding site of full length HIV-1 Nef on human Lck SH3 by NMR spectroscopy. Journal of Biomedical Science, 2005, 12, 451-456.	7.0	4
286	Competitively selected protein ligands pay their increase in specificity by a decrease in affinity. Molecular BioSystems, 2009, 6, 126-133.	2.9	4
287	Structure characterization of unexpected covalent O-sulfonation and ion-pairing on an extremely hydrophilic peptide with CE-MS and FT-ICR-MS. Analytical and Bioanalytical Chemistry, 2015, 407, 6637-6655.	3.7	4
288	Autophagy-Related Proteins GABARAP and LC3B Label Structures of Similar Size but Different Shape in Super-Resolution Imaging. Molecules, 2019, 24, 1833.	3.8	4

#	Article	IF	Citations
289	PEAÎ² Triggers Cognitive Decline and Amyloid Burden in a Novel Mouse Model of Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2021, 22, 7062.	4.1	4
290	Sex-Related Motor Deficits in the Tau-P301L Mouse Model. Biomedicines, 2021, 9, 1160.	3.2	4
291	Histamine H3 receptor antagonists with peptidomimetic (keto)piperazine structures to inhibit AÎ² oligomerisation. Bioorganic and Medicinal Chemistry, 2021, 50, 116462.	3.0	4
292	Phage Display-Derived Compounds Displace hACE2 from Its Complex with SARS-CoV-2 Spike Protein. Biomedicines, 2022, 10, 441.	3.2	4
293	Structural Studies of the Equine Infectious Anemia Virus trans â€Activator Protein. FEBS Journal, 1996, 240, 45-52.	0.2	3
294	Binding of phage-displayed HIV-1 tat to TAR RNA in the presence of cyclin T1. Journal of Biomedical Science, 2001, 8, 430-436.	7.0	3
295	Sequence-specific 1H, 13C and 15N resonance assignments of lymphocyte specific kinase unique and SH3 domains. Journal of Biomolecular NMR, 2001, 19, 193-194.	2.8	3
296	1H, 15N and 13C resonance assignment of the N-terminal C39 peptidase-like domain of the ABC transporter Haemolysin B (HlyB). Biomolecular NMR Assignments, 2011, 5, 199-201.	0.8	3
297	Crystallization and preliminary X-ray crystallographic studies of an oligomeric species of a refolded C39 peptidase-like domain of theEscherichia coliABC transporter haemolysin B. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 630-633.	0.7	3
298	Expression and purification of soluble HIV-2 viral protein R (Vpr) using a sandwich-fusion protein strategy. Protein Expression and Purification, 2014, 95, 156-161.	1.3	3
299	Deficiency of GABARAP but Not Its Paralogs Causes Enhanced EGF-Induced EGFR Degradation. Cells, 2020, 9, 1296.	4.1	3
300	Oral Treatment with RD2RD2 Impedes Development of Motoric Phenotype and Delays Symptom Onset in SOD1G93A Transgenic Mice. International Journal of Molecular Sciences, 2021, 22, 7066.	4.1	3
301	Inhibition of Polyglutamine Misfolding with D-Enantiomeric Peptides Identified by Mirror Image Phage Display Selection. Biomolecules, 2022, 12, 157.	4.0	3
302	Riboflavin, a Potent Neuroprotective Vitamin: Focus on Flavivirus and Alphavirus Proteases. Microorganisms, 2022, 10, 1331.	3.6	3
303	A Highly Sensitive Diagnostic Assay for Aggregate-Related Diseases, Including Prion Diseases and Alzheimer's Disease. Rejuvenation Research, 2008, 11, 359-363.	1.8	2
304	Resonance assignments of the nucleotide-free wildtype MloK1 cyclic nucleotide-binding domain. Biomolecular NMR Assignments, 2010, 4, 147-150.	0.8	2
305	Sequence-specific 1H, 15N, and 13C resonance assignments of the autophagy-related protein LC3C. Biomolecular NMR Assignments, 2016, 10, 41-43.	0.8	2
306	1H, 13C, and 15N backbone and sidechain resonance assignments of a monomeric variant of E. coli deoxyribose-5-phosphate aldolase. Biomolecular NMR Assignments, 2017, 11, 197-201.	0.8	2

#	Article	IF	Citations
307	Structural Studies of Autophagy-Related Proteins. Methods in Molecular Biology, 2019, 1880, 17-56.	0.9	2
308	A So-Far Overlooked Secondary Conformation State in the Binding Mode of SARS-CoV-2 Spike Protein to Human ACE2 and Its Conversion Rate Are Crucial for Estimating Infectivity Efficacy of the Underlying Virus Variant. Journal of Virology, 2022, 96, .	3.4	2
309	Purification of recombinantly expressed human cluster determinant 4 cytoplasmic domain. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 786, 39-44.	2.3	1
310	Membrane Protein Interaction Studies using Microscale Thermophoresis. Biophysical Journal, 2013, 104, 557a-558a.	0.5	1
311	Analysis of the Bin1 SH3 interaction with peptides derived from the hepatitis C virus protein NS5A and c-Myc reveals that NS5A can competitively displace c-Myc in vitro. European Journal of Medical Research, 2014, 19, S10.	2.2	1
312	Proline Restricts Loop I Conformation of the High Affinity WW Domain from Human Nedd4-1 to a Ligand Binding-Competent Type I Î²-Turn. Journal of Physical Chemistry B, 2018, 122, 4219-4230.	2.6	1
313	In Vitro Reconstitution of the Highly Active and Natively Folded Recombinant Human Superoxide Dismutase 1 Holoenzyme. ChemistrySelect, 2018, 3, 7627-7632.	1.5	1
314	Clinical phase I data of the first orally available antiâ€aÎ²â€prionic drug PRIâ€002 that reverses behavioral and cognitive deficits, and decelerates neurodegeneration in AD animal models. Alzheimer's and Dementia, 2020, 16, e038821.	0.8	1
315	Interaction of HIV-1 Nef with Human CD4 and Lck. , 2005, , 269-286.		1
316	Mirror-Image Phage Display: Aiming at the Mirror. ChemInform, 2003, 34, no.	0.0	0
317	Potential role of HIV-1 Nef and human M6B in HIV-associated neurological disorders. Retrovirology, 2010, 7, .	2.0	0
318	Solution NMR Spectroscopy and Protein Interaction Studies of Membrane Proteins in Nanodiscs. Biophysical Journal, 2011, 100, 551a-552a.	0.5	0
319	Characterizing the Interaction of Human CD4 and the HIV-1 accessory Protein VpU using Liquid State NMR. Biophysical Journal, 2011, 100, 605a.	0.5	0
320	767 C-SRC IS REQUIRED FOR VIRAL REPLICATION AS IT MEDIATES COMPLEX FORMATION BETWEEN THE HEPATITIS C VIRUS ENCODED PROTEINS NS5A AND NS5B. Journal of Hepatology, 2011, 54, S309.	3.7	0
321	Modelling the Inhibition of Amyloid-Î² Aggregation causing Alzheimer's Disease using D-Peptides. Biophysical Journal, 2013, 104, 390a.	0.5	0
322	Highlight: NRW Research School BioStruct â€“ Biological Structures in Molecular Medicine and Biotechnology. Biological Chemistry, 2013, 394, 1353-1355.	2.5	0
323	The non-structural protein 5A (NS5A) of hepatitis C virus interacts with the SH3 domain of human Bin1 using non-canonical binding sites. European Journal of Medical Research, 2014, 19, .	2.2	0
324	Cytoplasmic Domain of Dengue Virus Protein NS4A Preferentially Binds Highly Curved Membranes. Biophysical Journal, 2015, 108, 246a.	0.5	0

#	Article	IF	Citations
325	Resonance assignment of the ligand-free cyclic nucleotide-binding domain from the murine ion channel HCN2. Biomolecular NMR Assignments, 2015, 9, 243-246.	0.8	0
326	P1â€098: AÎ² Oligomer Eliminating Compounds Impede Neurodegeneration in Vivo. Alzheimer's and Dementia, 2016, 12, P439.	0.8	0
327	Biophysical Studies of the Interaction between Optimized Peptides and Amyloid-Beta Elucidate a Completely Novel Binding Mode. Biophysical Journal, 2017, 112, 315a.	0.5	0
328	[O2â€“14â€“01]: AÎ² OLIGOMER ELIMINATING Dâ€ENANTIOMERIC PEPTIDES ENHANCE COGNITION AND IMPEDE NEURODEGENERATION EVEN BY ORAL APPLICATION. Alzheimer's and Dementia, 2017, 13, P591.	0.8	0
329	Development and validation of an UHPLC-ESI-QTOF-MS method for quantification of the highly hydrophilic amyloid-Î² oligomer eliminating all- D -enantiomeric peptide RD2 in mouse plasma. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1073, 123-129.	2.3	0
330	Unravelling the Secrets of a Virus. German Research, 2018, 40, 24-27.	0.0	0
331	O2â€02â€01: HIGH RESOLUTION STRUCTURE OF AMYLOIDâ€Î²(1â€42) FIBRILS. Alzheimer's and Dementia, 2018, 14, P61.	0.0	0
332	Reelin supports Glycoprotein VI and integrin outside-in signaling of platelets. Hamostaseologie, 2021, 41, .	1.9	0
333	The Structure of Lentiviral Tat Proteins in Solution. , 1996, , 287-303.		0