

Luitgard Nagel-Steger

List of Publications by Year in descending order

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53
papers

2,188
citations

218677

26
h-index

223800

46
g-index

60
all docs

60
docs citations

60
times ranked

3565
citing authors

#	ARTICLE	IF	CITATIONS
1	Liposomal vaccines with conformation-specific amyloid peptide antigens define immune response and efficacy in APP transgenic mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9810-9815.	7.1	153
2	Rho-kinase: regulation, (dys)function, and inhibition. Biological Chemistry, 2013, 394, 1399-1410.	2.5	139
3	Mechanisms of prion protein assembly into amyloid. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2409-2414.	7.1	127
4	Reduction of Alzheimer's Disease Amyloid Plaque Load in Transgenic Mice by D3, a D-Enantiomeric Peptide Identified by Mirror Image Phage Display. ChemMedChem, 2008, 3, 1848-1852.	3.2	115
5	Oral Treatment with the D-Enantiomeric Peptide D3 Improves the Pathology and Behavior of Alzheimer's Disease Transgenic Mice. ACS Chemical Neuroscience, 2010, 1, 639-648.	3.5	107
6	Human myocytes are protected from titin aggregation-induced stiffening by small heat shock proteins. Journal of Cell Biology, 2014, 204, 187-202.	5.2	98
7	An Account of Amyloid Oligomers: Facts and Figures Obtained from Experiments and Simulations. ChemBioChem, 2016, 17, 657-676.	2.6	95
8	A Novel, Enzymatically Active Conformation of the Escherichia coli NADH:Ubiquinone Oxidoreductase (Complex I). Journal of Biological Chemistry, 2002, 277, 17970-17977.	3.4	88
9	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. PLoS ONE, 2015, 10, e0126420.	2.5	71
10	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
11	Targeting HSP90 dimerization via the C terminus is effective in imatinib-resistant CML and lacks the heat shock response. Blood, 2018, 132, 307-320.	1.4	66
12	Rational Design of β -Sheet Ligands Against $A\beta_{42}$ -Induced Toxicity. Journal of the American Chemical Society, 2011, 133, 4348-4358.	13.7	61
13	Viroid replication: equilibrium association constant and comparative activity measurements for the viroid-polymerase interaction. Nucleic Acids Research, 1984, 12, 6231-6246.	14.5	60
14	Discovery and Structure Activity Relationship of Small Molecule Inhibitors of Toxic β -Amyloid-42 Fibril Formation. Journal of Biological Chemistry, 2012, 287, 34786-34800.	3.4	53
15	Prevention of Alzheimer's Disease-associated $A\beta$ Aggregation by Rationally Designed Nonpeptidic β -Sheet Ligands. Journal of Biological Chemistry, 2004, 279, 47497-47505.	3.4	50
16	$A\beta_{42}$ pentamers/hexamers are the smallest detectable oligomers in solution. Scientific Reports, 2017, 7, 2493.	3.3	49
17	Characterizing the Effect of Multivalent Conjugates Composed of $A\beta$ -Specific Ligands and Metal Nanoparticles on Neurotoxic Fibrillar Aggregation. ACS Nano, 2016, 10, 7582-7597.	14.6	46
18	Role of centrosomal adaptor proteins of the TACC family in the regulation of microtubule dynamics during mitotic cell division. Biological Chemistry, 2013, 394, 1411-1423.	2.5	45

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19	Determinants of structural and functional plasticity of a widely conserved protease chaperone complex. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 837-843.	8.2	42
20	The A β oligomer eliminating D-enantiomeric peptide RD2 improves cognition without changing plaque pathology. <i>Scientific Reports</i> , 2017, 7, 16275.	3.3	42
21	Double-strand DNA end-binding and sliding of the toroidal CRISPR-associated protein Csn2. <i>Nucleic Acids Research</i> , 2013, 41, 6347-6359.	14.5	41
22	The Centrosomal Adaptor TACC3 and the Microtubule Polymerase chTOG Interact via Defined C-terminal Subdomains in an Aurora-A Kinase-independent Manner. <i>Journal of Biological Chemistry</i> , 2014, 289, 74-88.	3.4	39
23	QIAD assay for quantitating a compound's efficacy in elimination of toxic A β oligomers. <i>Scientific Reports</i> , 2015, 5, 13222.	3.3	39
24	Chapter 4 Analysis of Heterogeneity in Molecular Weight and Shape by Analytical Ultracentrifugation Using Parallel Distributed Computing. <i>Methods in Enzymology</i> , 2009, 454, 87-113.	1.0	35
25	Molecular adaptations of NADP-malic enzyme for its function in C4 photosynthesis in grasses. <i>Nature Plants</i> , 2019, 5, 755-765.	9.3	35
26	Monomeric Amyloid Beta Peptide in Hexafluoroisopropanol Detected by Small Angle Neutron Scattering. <i>PLoS ONE</i> , 2016, 11, e0150267.	2.5	31
27	Biophysical Characterization of Nucleophosmin Interactions with Human Immunodeficiency Virus Rev and Herpes Simplex Virus US11. <i>PLoS ONE</i> , 2015, 10, e0143634.	2.5	27
28	EDTA aggregates induce SYPRO orange-based fluorescence in thermal shift assay. <i>PLoS ONE</i> , 2017, 12, e0177024.	2.5	27
29	The Off-rate of Monomers Dissociating from Amyloid- β Protofibrils. <i>Journal of Biological Chemistry</i> , 2013, 288, 37104-37111.	3.4	26
30	The mammalian autophagy initiator complex contains 2 HORMA domain proteins. <i>Autophagy</i> , 2015, 11, 2300-2308.	9.1	26
31	Increase of Positive Net Charge and Conformational Rigidity Enhances the Efficacy of D-Enantiomeric Peptides Designed to Eliminate Cytotoxic A β Species. <i>ACS Chemical Neuroscience</i> , 2016, 7, 1088-1096.	3.5	24
32	Dynamics and Interactions of Viroids. <i>Journal of Biomolecular Structure and Dynamics</i> , 1983, 1, 669-688.	3.5	22
33	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. <i>Journal of Biological Chemistry</i> , 2017, 292, 6468-6477.	3.4	22
34	Amyloid β Oligomeric Species Present in the Lag Phase of Amyloid Formation. <i>PLoS ONE</i> , 2015, 10, e0127865.	2.5	21
35	An unpredicted aggregation-critical region of the actin-polymerizing protein TRIOBP-1/Tara, determined by elucidation of its domain structure. <i>Journal of Biological Chemistry</i> , 2017, 292, 9583-9598.	3.4	21
36	Posttranslational Modification of the NADP-Malic Enzyme Involved in C ₄ Photosynthesis Modulates the Enzymatic Activity during the Day. <i>Plant Cell</i> , 2019, 31, 2525-2539.	6.6	20

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37	Seeded Fibrillation as Molecular Basis of the Species Barrier in Human Prion Diseases. PLoS ONE, 2013, 8, e72623.	2.5	18
38	Modulation of aggregate size- and shape-distributions of the amyloid- β peptide by a designed β -sheet breaker. European Biophysics Journal, 2010, 39, 415-422.	2.2	17
39	Toward the Mode of Action of the Clinical Stage All- α -Enantiomeric Peptide RD2 on A β 42 Aggregation. ACS Chemical Neuroscience, 2019, 10, 4800-4809.	3.5	16
40	Inhibition of amyloid A β aggregation by high pressures or specific α -enantiomeric peptides. Chemical Communications, 2018, 54, 3294-3297.	4.1	13
41	Structure of the SLY1 SAM homodimer reveals a new interface for SAM domain self-association. Scientific Reports, 2019, 9, 54.	3.3	13
42	The Chlamydia pneumoniae Adhesin Pmp21 Forms Oligomers with Adhesive Properties. Journal of Biological Chemistry, 2016, 291, 22806-22818.	3.4	12
43	Immobilization of Homogeneous Monomeric, Oligomeric and Fibrillar A β Species for Reliable SPR Measurements. PLoS ONE, 2014, 9, e89490.	2.5	12
44	Interaction of the cellular prion protein with raft-like lipid membranes. Biological Chemistry, 2007, 388, 79-89.	2.5	11
45	Interference with Amyloid- β Nucleation by Transient Ligand Interaction. Molecules, 2019, 24, 2129.	3.8	11
46	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
47	Identification and Characterization of an A β Oligomer Precipitating Peptide That May Be Useful to Explore Gene Therapeutic Approaches to Alzheimer Disease. Rejuvenation Research, 2012, 15, 144-147.	1.8	8
48	Stoichiometric Zn ²⁺ interferes with the self-association of A β 42: Insights from size distribution analysis. International Journal of Biological Macromolecules, 2018, 113, 631-639.	7.5	8
49	Solution-Based Determination of Dissociation Constants for the Binding of A β 42 to Antibodies. ChemistryOpen, 2019, 8, 989-994.	1.9	5
50	Small Heat Shock Proteins Associate under Stress Conditions with Elastic Titin Filaments and Provide Protection from Aggregation. Biophysical Journal, 2012, 102, 359a-360a.	0.5	0
51	Corrigendum to: Posttranslational Modification of the NADP-Malic Enzyme Involved in C4 Photosynthesis Modulates the Enzymatic Activity during the Day. Plant Cell, 2022, 34, 698-699.	6.6	0
52	Oral treatment with an A β 42 oligomer modulating D-amino acid peptide modulates memory deficits of APP/ PS1 double transgenic mice. , 0, 2009, .		0
53	Human myocytes are protected from titin aggregation-induced stiffening by small heat shock proteins. Journal of General Physiology, 2014, 143, 1432OIA1.	1.9	0