

Luitgard Nagel-Steger

List of Publications by Year in descending order

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Version: 2024-02-01

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	Corrigendum to: Posttranslational Modification of the NADP-Malic Enzyme Involved in C ₄ Photosynthesis Modulates the Enzymatic Activity during the Day. <i>Plant Cell</i> , 2022, 34, 698-699.	6.6	0
2	Solution-Based Determination of Dissociation Constants for the Binding of A β 42 to Antibodies. <i>ChemistryOpen</i> , 2019, 8, 989-994.	1.9	5
3	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
4	Molecular adaptations of NADP-malic enzyme for its function in C ₄ photosynthesis in grasses. <i>Nature Plants</i> , 2019, 5, 755-765.	9.3	35
5	Toward the Mode of Action of the Clinical Stage All-D-Enantiomeric Peptide RD2 on A β 42 Aggregation. <i>ACS Chemical Neuroscience</i> , 2019, 10, 4800-4809.	3.5	16
6	Structure of the SLY1 SAM homodimer reveals a new interface for SAM domain self-association. <i>Scientific Reports</i> , 2019, 9, 54.	3.3	13
7	Interference with Amyloid- β 2 Nucleation by Transient Ligand Interaction. <i>Molecules</i> , 2019, 24, 2129.	3.8	11
8	Stoichiometric Zn ²⁺ interferes with the self-association of A β 42: Insights from size distribution analysis. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 631-639.	7.5	8
9	Inhibition of amyloid A β 2 aggregation by high pressures or specific D-enantiomeric peptides. <i>Chemical Communications</i> , 2018, 54, 3294-3297.	4.1	13
10	Targeting HSP90 dimerization via the C terminus is effective in imatinib-resistant CML and lacks the heat shock response. <i>Blood</i> , 2018, 132, 307-320.	1.4	66
11	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
12	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
13	The A β 2 oligomer eliminating D-enantiomeric peptide RD2 improves cognition without changing plaque pathology. <i>Scientific Reports</i> , 2017, 7, 16275.	3.3	42
14	A β 42 pentamers/hexamers are the smallest detectable oligomers in solution. <i>Scientific Reports</i> , 2017, 7, 2493.	3.3	49
15	EDTA aggregates induce SYPRO orange-based fluorescence in thermal shift assay. <i>PLoS ONE</i> , 2017, 12, e0177024.	2.5	27
16	Monomeric Amyloid Beta Peptide in Hexafluoroisopropanol Detected by Small Angle Neutron Scattering. <i>PLoS ONE</i> , 2016, 11, e0150267.	2.5	31
17	The <i>Chlamydia pneumoniae</i> Adhesin Pmp21 Forms Oligomers with Adhesive Properties. <i>Journal of Biological Chemistry</i> , 2016, 291, 22806-22818.	3.4	12
18	Increase of Positive Net Charge and Conformational Rigidity Enhances the Efficacy of D-Enantiomeric Peptides Designed to Eliminate Cytotoxic A β 2 Species. <i>ACS Chemical Neuroscience</i> , 2016, 7, 1088-1096.	3.5	24

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19	Characterizing the Effect of Multivalent Conjugates Composed of A β -Specific Ligands and Metal Nanoparticles on Neurotoxic Fibrillar Aggregation. ACS Nano, 2016, 10, 7582-7597.	14.6	46
20	An Account of Amyloid Oligomers: Facts and Figures Obtained from Experiments and Simulations. ChemBioChem, 2016, 17, 657-676.	2.6	95
21	QIAD assay for quantitating a compound's efficacy in elimination of toxic A β oligomers. Scientific Reports, 2015, 5, 13222.	3.3	39
22	Amyloid β Oligomeric Species Present in the Lag Phase of Amyloid Formation. PLoS ONE, 2015, 10, e0127865.	2.5	21
23	Biophysical Characterization of Nucleophosmin Interactions with Human Immunodeficiency Virus Rev and Herpes Simplex Virus US11. PLoS ONE, 2015, 10, e0143634.	2.5	27
24	The mammalian autophagy initiator complex contains 2 HORMA domain proteins. Autophagy, 2015, 11, 2300-2308.	9.1	26
25	A Multilaboratory Comparison of Calibration Accuracy and the Performance of External References in Analytical Ultracentrifugation. PLoS ONE, 2015, 10, e0126420.	2.5	71
26	The Centrosomal Adaptor TACC3 and the Microtubule Polymerase chTOG Interact via Defined C-terminal Subdomains in an Aurora-A Kinase-independent Manner. Journal of Biological Chemistry, 2014, 289, 74-88.	3.4	39
27	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
28	Immobilization of Homogeneous Monomeric, Oligomeric and Fibrillar A β Species for Reliable SPR Measurements. PLoS ONE, 2014, 9, e89490.	2.5	12
29	Human myocytes are protected from titin aggregation-induced stiffening by small heat shock proteins. Journal of General Physiology, 2014, 143, 1432OIA1.	1.9	0
30	The Off-rate of Monomers Dissociating from Amyloid- β Protofibrils. Journal of Biological Chemistry, 2013, 288, 37104-37111.	3.4	26
31	Rho-kinase: regulation, (dys)function, and inhibition. Biological Chemistry, 2013, 394, 1399-1410.	2.5	139
32	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
33	Double-strand DNA end-binding and sliding of the toroidal CRISPR-associated protein Csn2. Nucleic Acids Research, 2013, 41, 6347-6359.	14.5	41
34	Seeded Fibrillation as Molecular Basis of the Species Barrier in Human Prion Diseases. PLoS ONE, 2013, 8, e72623.	2.5	18
35	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
36	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

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37	Small Heat Shock Proteins Associate under Stress Conditions with Elastic Titin Filaments and Provide Protection from Aggregation. <i>Biophysical Journal</i> , 2012, 102, 359a-360a.	0.5	0
38	Rational Design of β -Sheet Ligands Against $A\beta_{42}$ -Induced Toxicity. <i>Journal of the American Chemical Society</i> , 2011, 133, 4348-4358.	13.7	61
39	Sequence-independent Control of Peptide Conformation in Liposomal Vaccines for Targeting Protein Misfolding Diseases. <i>Journal of Biological Chemistry</i> , 2011, 286, 13966-13976.	3.4	67
40	Modulation of aggregate size- and shape-distributions of the amyloid- β peptide by a designed β -sheet breaker. <i>European Biophysics Journal</i> , 2010, 39, 415-422.	2.2	17
41	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
42	Oral Treatment with the D-Enantiomeric Peptide D3 Improves the Pathology and Behavior of Alzheimer's Disease Transgenic Mice. <i>ACS Chemical Neuroscience</i> , 2010, 1, 639-648.	3.5	107
43	Molecular Interactions between Prions as Seeds and Recombinant Prion Proteins as Substrates Resemble the Biological Interspecies Barrier In Vitro. <i>PLoS ONE</i> , 2010, 5, e14283.	2.5	10
44	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
45	Reduction of Alzheimer's Disease Amyloid Plaque Load in Transgenic Mice by D3, a D-Enantiomeric Peptide Identified by Mirror Image Phage Display. <i>ChemMedChem</i> , 2008, 3, 1848-1852.	3.2	115
46	Mechanisms of prion protein assembly into amyloid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 2409-2414.	7.1	127
47	Interaction of the cellular prion protein with raft-like lipid membranes. <i>Biological Chemistry</i> , 2007, 388, 79-89.	2.5	11
48	Liposomal vaccines with conformation-specific amyloid peptide antigens define immune response and efficacy in APP transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9810-9815.	7.1	153
49	Prevention of Alzheimer's Disease-associated $A\beta$ Aggregation by Rationally Designed Nonpeptidic β -Sheet Ligands. <i>Journal of Biological Chemistry</i> , 2004, 279, 47497-47505.	3.4	50
50	A Novel, Enzymatically Active Conformation of the Escherichia coli NADH:Ubiquinone Oxidoreductase (Complex I). <i>Journal of Biological Chemistry</i> , 2002, 277, 17970-17977.	3.4	88
51	Viroid replication: equilibrium association constant and comparative activity measurements for the viroid-polymerase interaction. <i>Nucleic Acids Research</i> , 1984, 12, 6231-6246.	14.5	60
52	Dynamics and Interactions of Viroids. <i>Journal of Biomolecular Structure and Dynamics</i> , 1983, 1, 669-688.	3.5	22
53	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