

Sandra Villegas

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,514
citations

331538

21
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330025

37
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62
all docs

62
docs citations

62
times ranked

1844
citing authors

#	ARTICLE	IF	CITATIONS
1	Mouse Models of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2017, 57, 1171-1183.	1.2	201
2	Evidence for a Two-State Transition in the Folding Process of the Activation Domain of Human Procarboxypeptidase A2. <i>Biochemistry</i> , 1995, 34, 15105-15110.	1.2	99
3	Favourable native-like helical local interactions can accelerate protein folding. <i>Folding & Design</i> , 1997, 2, 23-33.	4.5	92
4	Amyloid-beta peptide and tau protein crosstalk in Alzheimer's disease. <i>Neural Regeneration Research</i> , 2022, 17, 1666.	1.6	87
5	Stabilization of proteins by rational design of β -helix stability using helix/coil transition theory. <i>Folding & Design</i> , 1996, 1, 29-34.	4.5	83
6	Early Kinetics of Amyloid Fibril Formation Reveals Conformational Reorganisation of Initial Aggregates. <i>Journal of Molecular Biology</i> , 2007, 366, 1351-1363.	2.0	60
7	Analysis of the activation process of porcine procarboxypeptidase B and determination of the sequence of its activation segment. <i>Biochemistry</i> , 1991, 30, 4082-4089.	1.2	50
8	Early intervention in the 3xTg-AD mice with an amyloid β -antibody fragment ameliorates first hallmarks of Alzheimer disease. <i>MAbs</i> , 2013, 5, 665-864.	2.6	48
9	Aggregated Electronegative Low Density Lipoprotein in Human Plasma Shows a High Tendency toward Phospholipolysis and Particle Fusion. <i>Journal of Biological Chemistry</i> , 2010, 285, 32425-32435.	1.6	46
10	Electronegative low-density lipoprotein. A link between apolipoprotein B misfolding, lipoprotein aggregation and proteoglycan binding. <i>Current Opinion in Lipidology</i> , 2012, 23, 479-486.	1.2	41
11	Novel Phospholipolytic Activities Associated with Electronegative Low-Density Lipoprotein Are Involved in Increased Self-Aggregation. <i>Biochemistry</i> , 2008, 47, 8186-8194.	1.2	40
12	An anti- $A\beta$ (amyloid β) single-chain variable fragment prevents amyloid fibril formation and cytotoxicity by withdrawing $A\beta$ oligomers from the amyloid pathway. <i>Biochemical Journal</i> , 2011, 437, 25-34.	1.7	36
13	β -Immunotherapeutic strategies: a wide range of approaches for Alzheimer's disease treatment. <i>Expert Reviews in Molecular Medicine</i> , 2016, 18, e13.	1.6	34
14	Functional inclusion bodies produced in the yeast <i>Pichia pastoris</i> . <i>Microbial Cell Factories</i> , 2016, 15, 166.	1.9	32
15	High binding affinity of electronegative LDL to human aortic proteoglycans depends on its aggregation level. <i>Journal of Lipid Research</i> , 2009, 50, 446-455.	2.0	31
16	Mutations can cause light chains to be too stable or too unstable to form amyloid fibrils. <i>Protein Science</i> , 2015, 24, 1829-1840.	3.1	31
17	Influence of Aggregation Propensity and Stability on Amyloid Fibril Formation As Studied by Fourier Transform Infrared Spectroscopy and Two-Dimensional COS Analysis. <i>Biochemistry</i> , 2009, 48, 10582-10590.	1.2	28
18	Clusterin/apolipoprotein J binds to aggregated LDL in human plasma and plays a protective role against LDL aggregation. <i>FASEB Journal</i> , 2015, 29, 1688-1700.	0.2	25

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19	Production of an anti-A β antibody fragment in <i>Pichia pastoris</i> and in vitro and in vivo validation of its therapeutic effect. <i>PLoS ONE</i> , 2017, 12, e0181480.	1.1	25
20	Loss of deep cerebellar nuclei neurons in the 3xTg-AD mice and protection by an anti-amyloid β antibody fragment. <i>MAbs</i> , 2013, 5, 660-664.	2.6	24
21	A β -oligomer uptake and the resulting inflammatory response in adult human astrocytes are precluded by an anti-A β single chain variable fragment in combination with an apoE mimetic peptide. <i>Molecular and Cellular Neurosciences</i> , 2018, 89, 49-59.	1.0	21
22	The Role of Apolipoprotein E Isoforms in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2019, 68, 459-471.	1.2	21
23	2D-NMR reveals different populations of exposed lysine residues in the apoB-100 protein of electronegative and electropositive fractions of LDL particles. <i>Journal of Lipid Research</i> , 2010, 51, 1560-1565.	2.0	20
24	Protein structures in Alzheimer's disease: The basis for rationale therapeutic design. <i>Archives of Biochemistry and Biophysics</i> , 2015, 588, 1-14.	1.4	20
25	Treatment with scFv-h3D6 Prevented Neuronal Loss and Improved Spatial Memory in Young 3xTg-AD Mice by Reducing the Intracellular Amyloid- β Burden. <i>Journal of Alzheimer's Disease</i> , 2019, 70, 1069-1091.	1.2	18
26	Differential effects of apoE and apoJ mimetic peptides on the action of an anti-A β scFv in 3xTg-AD mice. <i>Biochemical Pharmacology</i> , 2018, 155, 380-392.	2.0	17
27	Cognitive Impairment in the 3xTg-AD Mouse Model of Alzheimer's Disease is Affected by A β -ImmunoTherapy and Cognitive Stimulation. <i>Pharmaceutics</i> , 2020, 12, 944.	2.0	17
28	Protein secondary structure and stability determined by combining exoproteolysis and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2002, 37, 974-984.	0.7	16
29	Elongation of the C-terminal domain of an anti-amyloid β single-chain variable fragment increases its thermodynamic stability and decreases its aggregation tendency. <i>MAbs</i> , 2013, 5, 678-689.	2.6	16
30	Conformational and functional variants of CD44-targeted protein nanoparticles bio-produced in bacteria. <i>Biofabrication</i> , 2016, 8, 025001.	3.7	15
31	An Intracellular Amyloid- β /A β PP Epitope Correlates with Neurodegeneration in those Neuronal Populations Early Involved in Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2017, 59, 1079-1096.	1.2	15
32	Comparative Analysis of the Sequences and Three-Dimensional Models of Human Procarboxypeptidases A1, A2 and B. <i>Biological Chemistry</i> , 1998, 379, 149-156.	1.2	13
33	Progression of Alzheimer's disease and effect of scFv-h3D6 immunotherapy in the 3xTg-AD mouse model: An in vivo longitudinal study using Magnetic Resonance Imaging and Spectroscopy. <i>NMR in Biomedicine</i> , 2020, 33, e4263.	1.6	13
34	Pancreatic Procarboxypeptidases: Their Activation Processes Related to the Structural Features of the Zymogens and Activation Segments. <i>Biological Chemistry Hoppe-Seyler</i> , 1992, 373, 387-392.	1.4	12
35	Understanding the contribution of disulfide bridges to the folding and misfolding of an anti-A β scFv. <i>Protein Science</i> , 2017, 26, 1138-1149.	3.1	12
36	Effects of an A β -antibody fragment on A β aggregation and astrocytic uptake are modulated by apolipoprotein E and J mimetic peptides. <i>PLoS ONE</i> , 2017, 12, e0188191.	1.1	12

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37	Expression of heat-labile enterotoxin genes is under cyclic AMP control in <i>Escherichia coli</i> . <i>Current Microbiology</i> , 1990, 20, 83-90.	1.0	11
38	The Interconversion between a Flexible β -Sheet and a Fibril β -Arrangement Constitutes the Main Conformational Event during Misfolding of PSD95-PDZ3 Domain. <i>Biophysical Journal</i> , 2012, 103, 738-747.	0.2	11
39	A thermodynamic study of the third PDZ domain of MAGUK neuronal protein PSD-95 reveals a complex three-state folding behavior. <i>Biophysical Chemistry</i> , 2014, 185, 1-7.	1.5	11
40	Molecular basis for the protective effects of low-density lipoprotein receptor-related protein 1 (LRP1)-derived peptides against LDL aggregation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 1302-1316.	1.4	10
41	Both Amyloid- β Peptide and Tau Protein Are Affected by an Anti-Amyloid- β Antibody Fragment in Elderly 3xTg-AD Mice. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6630.	1.8	10
42	Common features in the unfolding and misfolding of PDZ domains and beyond: the modulatory effect of domain swapping and extra-elements. <i>Scientific Reports</i> , 2016, 6, 19242.	1.6	9
43	The chondroitin sulfate/dermatan sulfate 4-O-endosulfatase from marine bacterium <i>Vibrio</i> sp FC509 is a dimeric species: Biophysical characterization of an endosulfatase. <i>Biochimie</i> , 2016, 131, 85-95.	1.3	9
44	Pharmacokinetic parameters and mechanism of action of an efficient anti-A β single chain antibody fragment. <i>PLoS ONE</i> , 2019, 14, e0217793.	1.1	9
45	A β immunotherapy for Alzheimer's disease: where are we?. <i>Neurodegenerative Disease Management</i> , 2016, 6, 179-181.	1.2	8
46	Towards the improvement in stability of an anti-A β single-chain variable fragment, scFv-h3D6, as a way to enhance its therapeutic potential. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2017, 24, 167-175.	1.4	8
47	Immunotherapy for neurodegenerative diseases: the Alzheimer's disease paradigm. <i>Current Opinion in Chemical Engineering</i> , 2018, 19, 59-67.	3.8	8
48	The Impact of Extra-Domain Structures and Post-Translational Modifications in the Folding/Misfolding Behaviour of the Third PDZ Domain of MAGUK Neuronal Protein PSD-95. <i>PLoS ONE</i> , 2014, 9, e98124.	1.1	8
49	Low-density lipoprotein aggregation is inhibited by apolipoprotein J-derived mimetic peptide D-[113-122]apoJ. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020, 1865, 158541.	1.2	7
50	Principal Component and Cluster Analysis of Morphological Variables Reveals Multiple Discrete Sub-phenotypes in Weaver Mouse Mutants. <i>Cerebellum</i> , 2013, 12, 406-417.	1.4	6
51	Prospective Therapies for Alzheimer Disease: Biomarkers, Clinical Trials and Preclinical Research. , 2016, , 114-191.		3
52	The isolated N terminus of Ring1B is a well-folded, monomeric fragment with native-like structure. <i>Protein Engineering, Design and Selection</i> , 2014, 27, 1-11.	1.0	2
53	Production of Therapeutic Single-Chain Variable Fragments (ScFv) in <i>Pichia pastoris</i> . <i>Methods in Molecular Biology</i> , 2022, 2313, 151-167.	0.4	2
54	Cerebellar cortex development in the weaver condition presents regional and age-dependent abnormalities without differences in Purkinje cells neurogenesis. <i>Acta Neurobiologiae Experimentalis</i> , 2016, 76, 53-65.	0.4	2

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55	Prediction of a new class of RNA recognition motif. <i>Journal of Molecular Modeling</i> , 2011, 17, 1863-1875.	0.8	1
56	Apolipoprotein J mimetic peptide [113â€“122]apoj decreases weight gain in LDLR-KO mice under atherogenic diet by decreasing fat accumulation. <i>Atherosclerosis</i> , 2017, 263, e71.	0.4	1
57	Modified Forms of LDL in Plasma. , 0, , .		0
58	Alzheimer's disease: New therapeutic strategies. <i>Medicina Clínica (English Edition)</i> , 2015, 145, 76-83.	0.1	0
59	Apolipoprotein J protects against LDL aggregation. <i>Atherosclerosis</i> , 2015, 241, e124.	0.4	0
60	Apolipoprotein J Mimetic Peptide D-[113â€“122]Apoj Retard Atherosclerosis In Ldlr-Ko Mice Under Atherogenic Diet By Improving Hdl Function And Decreasing Ldl Aggregability. <i>Atherosclerosis</i> , 2019, 287, e200-e201.	0.4	0
61	M.461 Impaired affinity binding of electronegative LDL (LDL(\$minus;)) to the LDL receptor (LDLR). Relationship with APOB structure, non-esterified fatty acids (NEFA) and lysophosphatidylcholine (LPC) content. <i>Atherosclerosis</i> , 2004, 5, 107.	0.4	0