

Sergey A Kozin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3841227/publications.pdf>

Version: 2024-02-01

83
papers

2,161
citations

201385

27
h-index

253896

43
g-index

94
all docs

94
docs citations

94
times ranked

1553
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Changes of Region 1-16 of the Alzheimer Disease Amyloid β -Peptide upon Zinc Binding and in Vitro Aging. <i>Journal of Biological Chemistry</i> , 2006, 281, 2151-2161.	1.6	284
2	Zinc Binding to Alzheimer's $A\beta(1-16)$ Peptide Results in Stable Soluble Complex. <i>Biochemical and Biophysical Research Communications</i> , 2001, 285, 959-964.	1.0	129
3	Minimal Zn^{2+} Binding Site of Amyloid- β . <i>Biophysical Journal</i> , 2010, 99, L84-L86.	0.2	106
4	Interplay of histidine residues of the Alzheimer's disease $A\beta$ peptide governs its Zn-induced oligomerization. <i>Scientific Reports</i> , 2016, 6, 21734.	1.6	81
5	Zinc-induced dimerization of the amyloid- β metal-binding domain 1-16 is mediated by residues 11-14. <i>Molecular BioSystems</i> , 2011, 7, 1053.	2.9	72
6	Peripherally Applied Synthetic Peptide isoAsp7- $A\beta(1-42)$ Triggers Cerebral β -Amyloidosis. <i>Neurotoxicity Research</i> , 2013, 24, 370-376.	1.3	71
7	Isomerization of the Asp7 Residue Results in Zinc-Induced Oligomerization of Alzheimer's Disease Amyloid $\beta(1-16)$ Peptide. <i>ChemBioChem</i> , 2008, 9, 1564-1567.	1.3	68
8	Zinc binding properties of the amyloid fragment $A\beta(1-16)$ studied by electrospray-ionization mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 999-1016.	0.7	67
9	NMR Solution Structure of Rat $A\beta(1-16)$: Toward Understanding the Mechanism of Rats' Resistance to Alzheimer's Disease. <i>Biophysical Journal</i> , 2012, 102, 136-143.	0.2	56
10	The N ¹ -domain of angiotensin-converting enzyme specifically hydrolyzes the Arg ⁵⁵ -His ⁶⁶ bond of Alzheimer's $A\beta(1-16)$ peptide and its isoAsp ⁷ analogue with different efficiency as evidenced by quantitative matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 231-239.	0.7	55
11	Isomerization of Asp7 leads to increased toxic effect of amyloid- β^{242} on human neuronal cells. <i>Cell Death and Disease</i> , 2013, 4, e939-e939.	2.7	53
12	Amyloid β Modification: A Key to the Sporadic Alzheimer's Disease?. <i>Frontiers in Genetics</i> , 2017, 8, 58.	1.1	52
13	Phosphorylation of Ser8 promotes zinc-induced dimerization of the amyloid- β metal-binding domain. <i>Molecular BioSystems</i> , 2014, 10, 2590-2596.	2.9	49
14	The English (H6R) familial Alzheimer's disease mutation facilitates zinc-induced dimerization of the amyloid- β metal-binding domain. <i>Metallomics</i> , 2015, 7, 422-425.	1.0	38
15	Capabilities of MS for Analytical Quantitative Determination of the Ratio of β - and β Asp7 Isoforms of the Amyloid- β Peptide in Binary Mixtures. <i>Analytical Chemistry</i> , 2011, 83, 3205-3210.	3.2	35
16	Direct electrochemical oxidation of amyloid- β peptides via tyrosine, histidine, and methionine residues. <i>Electrochemistry Communications</i> , 2016, 65, 53-56.	2.3	35
17	Amyloid- β containing isoaspartate 7 as potential biomarker and drug target in Alzheimer's disease. <i>Mendelev Communications</i> , 2016, 26, 269-275.	0.6	33
18	Phosphorylation of the Amyloid-Beta Peptide Inhibits Zinc-Dependent Aggregation, Prevents Na,K-ATPase Inhibition, and Reduces Cerebral Plaque Deposition. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 302.	1.4	33

#	ARTICLE	IF	CITATIONS
19	Sheep Prion Protein Synthetic Peptide Spanning Helix 1 and β -Strand 2 (Residues 142-166) Shows β -Hairpin Structure in Solution. <i>Journal of Biological Chemistry</i> , 2001, 276, 46364-46370.	1.6	32
20	Tyrosine Based Electrochemical Analysis of Amyloid- β Fragment (1-16) Binding to Metal(II) Ions. <i>Electrochimica Acta</i> , 2015, 179, 93-99.	2.6	31
21	The Effects of Endogenous Non-Peptide Molecule Isatin and Hydrogen Peroxide on Proteomic Profiling of Rat Brain Amyloid- β Binding Proteins: Relevance to Alzheimer's Disease?. <i>International Journal of Molecular Sciences</i> , 2015, 16, 476-495.	1.8	31
22	Protein interactomics based on direct molecular fishing on paramagnetic particles: Practical realization and further SPR validation. <i>Proteomics</i> , 2014, 14, 2261-2274.	1.3	30
23	Supermetallization of peptides and proteins during electrospray ionization. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1079-1087.	0.7	29
24	Anti-amyloid Therapy of Alzheimer's Disease: Current State and Prospects. <i>Biochemistry (Moscow)</i> , 2018, 83, 1057-1067.	0.7	29
25	Intracerebral Injection of Metal-Binding Domain of $A\beta$ Comprising the Isomerized Asp7 Increases the Amyloid Burden in Transgenic Mice. <i>Neurotoxicity Research</i> , 2016, 29, 551-557.	1.3	28
26	Zinc-induced heterodimer formation between metal-binding domains of intact and naturally modified amyloid-beta species: implication to amyloid seeding in Alzheimer's disease?. <i>Journal of Biomolecular Structure and Dynamics</i> , 2016, 34, 2317-2326.	2.0	28
27	Zinc binding agonist effect on the recognition of the β -amyloid (4-10) epitope by anti- β -amyloid antibodies. <i>Biochemical and Biophysical Research Communications</i> , 2004, 321, 324-328.	1.0	27
28	Roles of zinc ions and structural polymorphism of β -amyloid in the development of Alzheimer's disease. <i>Molecular Biology</i> , 2015, 49, 217-230.	0.4	27
29	Chronic Administration of Dimebon does not Ameliorate Amyloid- β Pathology in 5xFAD Transgenic Mice. <i>Journal of Alzheimer's Disease</i> , 2013, 36, 589-596.	1.2	26
30	Isomerization of Asp7 in Beta-Amyloid Enhances Inhibition of the α 7 Nicotinic Receptor and Promotes Neurotoxicity. <i>Cells</i> , 2019, 8, 771.	1.8	26
31	Possible role of region 152-156 in the structural duality of a peptide fragment from sheep prion protein. <i>Protein Science</i> , 2009, 13, 3151-3160.	3.1	25
32	HSP70 protects human neuroblastoma cells from apoptosis and oxidative stress induced by amyloid peptide isoAsp7- $A\beta$ (1-42). <i>Cell Death and Disease</i> , 2015, 6, e1977-e1977.	2.7	25
33	A Binuclear Zinc Interaction Fold Discovered in the Homodimer of Alzheimer's Amyloid- β Fragment with Taiwanese Mutation D7H. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11734-11739.	7.2	25
34	Amyloid- β with isomerized Asp7 cytotoxicity is coupled to protein phosphorylation. <i>Scientific Reports</i> , 2018, 8, 3518.	1.6	24
35	A review of the biomedical innovations for healthy longevity. <i>Aging</i> , 2017, 9, 7-25.	1.4	18
36	Extracellular GAPDH Promotes Alzheimer Disease Progression by Enhancing Amyloid- β Aggregation and Cytotoxicity. , 2021, 12, 1223.		16

#	ARTICLE	IF	CITATIONS
37	Intravenously Injected Amyloid- β Peptide With Isomerized Asp7 and Phosphorylated Ser8 Residues Inhibits Cerebral β -Amyloidosis in A β PP/PS1 Transgenic Mice Model of Alzheimer's Disease. <i>Frontiers in Neuroscience</i> , 2018, 12, 518.	1.4	15
38	Zinc-Induced Interaction of the Metal-Binding Domain of Amyloid- β Peptide with DNA. <i>Journal of Alzheimer's Disease</i> , 2013, 36, 633-636.	1.2	14
39	Peripherally Applied Synthetic Tetrapeptides HAAE and RADD Slow Down the Development of Cerebral β -Amyloidosis in A β PP/PS1 Transgenic Mice. <i>Journal of Alzheimer's Disease</i> , 2015, 46, 849-853.	1.2	14
40	The Convergence of Alzheimer's Disease Pathogenesis Concepts. <i>Molecular Biology</i> , 2019, 53, 896-903.	0.4	14
41	Compressibility and uncoupling of cytochrome P450cam: high pressure FTIR and activity studies. <i>Biochemical and Biophysical Research Communications</i> , 2003, 312, 197-203.	1.0	12
42	ESI-MS identification of the minimal zinc-binding center in natural isoforms of β -amyloid domain 1-16. <i>Molecular Biology</i> , 2013, 47, 440-445.	0.4	12
43	Mass spectrometric identification of posttranslational modifications in transthyretin from human blood. <i>Molecular Biology</i> , 2013, 47, 885-893.	0.4	12
44	Physico-chemical methods for studying amyloid- β aggregation. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2015, 9, 258-274.	0.2	12
45	Zinc-Mediated Binding of Nucleic Acids to Amyloid- β Aggregates: Role of Histidine Residues. <i>Journal of Alzheimer's Disease</i> , 2016, 54, 809-819.	1.2	12
46	Direct molecular fishing in molecular partners investigation in protein-protein and protein-peptide interactions. <i>Russian Journal of Bioorganic Chemistry</i> , 2016, 42, 14-21.	0.3	12
47	Electrochemical detection of Zn(II)- and Cu(II)-induced amyloid- β aggregation: Quantitative aspects and application to amyloid- β isoforms. <i>Journal of Electroanalytical Chemistry</i> , 2017, 791, 152-158.	1.9	12
48	N-domain of angiotensin-converting enzyme hydrolyzes human and rat amyloid- β (1-16) peptides as arginine specific endopeptidase potentially enhancing risk of Alzheimer's disease. <i>Scientific Reports</i> , 2018, 8, 298.	1.6	12
49	Evaluation of MALDI-TOF/TOF Mass Spectrometry Approach for Quantitative Determination of Aspartate Residue Isomerization in the Amyloid- β Peptide. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1325-1329.	1.2	12
50	Chemical modifications of amyloid- β (1-42) have a significant impact on the repertoire of brain amyloid- β (1-42) binding proteins. <i>Biochimie</i> , 2016, 128-129, 55-58.	1.3	11
51	Electrochemical detection of protein post-translational modifications: Phosphorylation and nitration of amyloid-beta (1-16). <i>Electrochimica Acta</i> , 2017, 258, 1182-1190.	2.6	11
52	Application of MALDI-TOF/TOF-MS for relative quantitation of β - and β -Asp7 isoforms of amyloid- β peptide. <i>European Journal of Mass Spectrometry</i> , 2018, 24, 141-144.	0.5	11
53	Epitope Mapping of Cytochrome P450cam (CYP101). <i>Archives of Biochemistry and Biophysics</i> , 1997, 341, 229-237.	1.4	10
54	Heparin Modulates the Kinetics of Zinc-Induced Aggregation of Amyloid- β Peptides. <i>Journal of Alzheimer's Disease</i> , 2018, 63, 539-550.	1.2	10

#	ARTICLE	IF	CITATIONS
55	Electrochemical detection of Zn(II)-induced amyloid- β^2 aggregation: Insights into aggregation mechanisms. <i>Journal of Electroanalytical Chemistry</i> , 2018, 830-831, 34-42.	1.9	10
56	Steroids, histamine, and serotonin in the medicinal leech salivary gland secretion. <i>Biochemistry (Moscow) Supplement Series B: Biomedical Chemistry</i> , 2008, 2, 215-225.	0.2	9
57	Enalaprilat Inhibits Zinc-Dependent Oligomerization of Metal-Binding Domain of Amyloid-beta Isoforms and Protects Human Neuroblastoma Cells from Toxic Action of these Isoforms. <i>Molecular Biology</i> , 2018, 52, 590-597.	0.4	9
58	Tetrapeptide Ac-HAEE-NH ₂ Protects β^2 nAChR from Inhibition by β^2 . <i>International Journal of Molecular Sciences</i> , 2020, 21, 6272.	1.8	9
59	Estimation of phosphorylation level of amyloid-beta isolated from human blood plasma: Ultrahigh-resolution mass spectrometry. <i>Molecular Biology</i> , 2014, 48, 607-614.	0.4	8
60	Effect of mutations and modifications of amino acid residues on zinc-induced interaction of the metal-binding domain of β^2 -amyloid with DNA. <i>Molecular Biology</i> , 2015, 49, 450-456.	0.4	8
61	Application of electrochemical method to a comparative study of spontaneous aggregation of amyloid- β^2 isoforms. <i>Journal of Electroanalytical Chemistry</i> , 2020, 861, 113938.	1.9	7
62	Mass spectrometric studies of the variety of beta-amyloid proteoforms in Alzheimer's disease. <i>Mass Spectrometry Reviews</i> , 2022, , e21775.	2.8	7
63	Antigenic mapping of bacterial and animal cytochromes P-450. <i>Biochimie</i> , 1996, 78, 752-762.	1.3	6
64	Epitope mapping of the domains of human angiotensin converting enzyme. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 959-965.	1.1	6
65	The English (H6R) Mutation of the Alzheimer's Disease Amyloid- β^2 Peptide Modulates Its Zinc-Induced Aggregation. <i>Biomolecules</i> , 2020, 10, 961.	1.8	6
66	A Binuclear Zinc Interaction Fold Discovered in the Homodimer of Alzheimer's Amyloid- β^2 Fragment with Taiwanese Mutation D7H. <i>Angewandte Chemie</i> , 2017, 129, 11896-11901.	1.6	5
67	Optimization of the methods for small peptide solution structure determination by NMR spectroscopy. <i>Molecular Biology</i> , 2010, 44, 958-967.	0.4	4
68	Pharmacokinetics and Molecular Modeling Indicate nAChR β^4 -Derived Peptide HAEE Goes through the Blood-Brain Barrier. <i>Biomolecules</i> , 2021, 11, 909.	1.8	4
69	Application of Prussian Blue modified carbon electrodes for amperometric detection of amyloid- β^2 peptides by flow injection analysis. <i>Electrochimica Acta</i> , 2022, 406, 139829.	2.6	4
70	Development of Peptide Biopharmaceuticals in Russia. <i>Pharmaceutics</i> , 2022, 14, 716.	2.0	4
71	Zinc-induced interactions of the metal-binding domain of beta-amyloid with nucleic acids and glycosaminoglycans. <i>Molecular Biology</i> , 2016, 50, 927-929.	0.4	3
72	Localization of zinc binding sites of Ab1-16 with English mutation during formation of monomers and dimers with zinc. <i>International Journal of Mass Spectrometry</i> , 2016, 409, 67-72.	0.7	3

#	ARTICLE	IF	CITATIONS
73	Neurotoxic Effects of A β ₂₆₋₄₂ Peptides Mimicking Putative Products Formed by the Angiotensin Converting Enzyme. <i>Journal of Alzheimer's Disease</i> , 2018, 66, 263-270.	1.2	2
74	Aberrant interactions between amyloid-beta and alpha5 laminins as possible driver of neuronal disfunction in Alzheimer's disease. <i>Biochimie</i> , 2020, 174, 44-48.	1.3	2
75	Solution structure of the sheep prion PrP ^{Sc} 142-166: a possible site for the conformational conversion of prion protein. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 2001, 4, 739-743.	0.1	1
76	P4-028: ZINC-INDUCED DIMERS OF CHEMICALLY MODIFIED A β - ARE POSSIBLE AGGREGATION SEEDS. , 2014, 10, P793-P793.		1
77	Effects of the H6R and D7H Mutations on the Heparin-Dependent Modulation of Zinc-Induced Aggregation of Amyloid β . <i>Molecular Biology</i> , 2019, 53, 922-928.	0.4	1
78	Identification of β 2 nAChR interaction site with A β ₄₂ and development of tetrapeptide capable of breaking this interaction. <i>Alzheimer's and Dementia</i> , 2020, 16, e040936.	0.4	1
79	Direct Molecular Fishing of Zinc-Dependent Protein Partners of Amyloid-beta 1 β 6 with the Taiwan (D7H) Mutation and Phosphorylated Ser8 Residue. <i>Molecular Biology</i> , 2020, 54, 904-910.	0.4	1
80	Secondary structure of A β ₁₋₁₆ complexes with zinc: A study in the gas phase using deuterium/hydrogen exchange and ultra-high-resolution mass spectrometry. <i>Molecular Biology</i> , 2017, 51, 627-632.	0.4	0
81	Frontispiece: A Binuclear Zinc Interaction Fold Discovered in the Homodimer of Alzheimer's Amyloid β Fragment with Taiwanese Mutation D7H. <i>Angewandte Chemie - International Edition</i> , 2017, 56, .	7.2	0
82	Frontispiz: A Binuclear Zinc Interaction Fold Discovered in the Homodimer of Alzheimer's Amyloid β Fragment with Taiwanese Mutation D7H. <i>Angewandte Chemie</i> , 2017, 129, .	1.6	0
83	Extracellular complex of beta β amyloid with glyceraldehyde β phosphate dehydrogenase contributes to neurodegeneration in Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2020, 16, e043347.	0.4	0