Sebastian K T S WÃ¤rmlÃ¤nder

List of Publications by Year
in descending order

61	2,076	218677	276875
papers	citations	26 h-index	41 g-index

69	69	69	2665
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects ofin vivoconditions on amyloid aggregation. Chemical Society Reviews, 2019, 48, 3946-3996.	38.1	148
2	Cross-interactions between the Alzheimer Disease Amyloid-Î² Peptide and Other Amyloid Proteins: A Further Aspect of the Amyloid Cascade Hypothesis. Journal of Biological Chemistry, 2016, 291, 16485-16493.	3.4	117
3	Variation in the Measurement of Cranial Volume and Surface Area Using 3D Laser Scanning Technology. Journal of Forensic Sciences, 2010, 55, 871-876.	1.6	108
4	In Vitro and Mechanistic Studies of an Antiamyloidogenic Self-Assembled Cyclic <scp>d</scp>,<scp>l</scp>-Î±-Peptide Architecture. Journal of the American Chemical Society, 2013, 135, 3474-3484.	13.7	95
5	Cellular Polyamines Promote Amyloid-Beta (AÎ²) Peptide Fibrillation and Modulate the Aggregation Pathways. ACS Chemical Neuroscience, 2013, 4, 454-462.	3.5	89
6	The hairpin conformation of the amyloid Î² peptide is an important structural motif along the aggregation pathway. Journal of Biological Inorganic Chemistry, 2014, 19, 623-634.	2.6	88
7	Alzheimerâ€™s disease and cigarette smoke components: effects of nicotine, PAHs, and Cd(II), Cr(III), Pb(II), Pb(IV) ions on amyloid-Î² peptide aggregation. Scientific Reports, 2017, 7, 14423.	3.3	81
8	Flake scar patterns of Clovis points analyzed with a new digital morphometrics approach: evidence for direct transmission of technological knowledge across early North America. Journal of Archaeological Science, 2012, 39, 3018-3026.	2.4	71
9	Characterization of Mn(II) ion binding to the amyloid-Î² peptide in Alzheimerâ¿¿s disease. Journal of Trace Elements in Medicine and Biology, 2016, 38, 183-193.	3.0	60
10	Non-chaperone Proteins Can Inhibit Aggregation and Cytotoxicity of Alzheimer Amyloid Î² Peptide. Journal of Biological Chemistry, 2014, 289, 27766-27775.	3.4	53
11	Amyloid-Î² Peptide Interactions with Amphiphilic Surfactants: Electrostatic and Hydrophobic Effects. ACS Chemical Neuroscience, 2018, 9, 1680-1692.	3.5	51
12	Co-aggregation of pro-inflammatory S100A9 with Î±-synuclein in Parkinsonâ€™s disease: ex vivo and in vitro studies. Journal of Neuroinflammation, 2018, 15, 172.	7.2	50
13	The Neuronal Tau Protein Blocks in Vitro Fibrillation of the Amyloid-Î² (AÎ²) Peptide at the Oligomeric Stage. Journal of the American Chemical Society, 2018, 140, 8138-8146.	13.7	49
14	Metal binding to the amyloid-Î² peptides in the presence of biomembranes: potential mechanisms of cell toxicity. Journal of Biological Inorganic Chemistry, 2019, 24, 1189-1196.	2.6	49
15	Designed Cell-Penetrating Peptide Inhibitors of Amyloid-beta Aggregation and Cytotoxicity. Cell Reports Physical Science, 2020, 1, 100014.	5.6	47
16	pH-dependence of the specific binding of Cu(II) and Zn(II) ions to the amyloid-Î² peptide. Biochemical and Biophysical Research Communications, 2012, 421, 554-560.	2.1	46
17	Sexual dimorphism in human browridge volume measured from 3D models of dry crania: A new digital morphometrics approach. Forensic Science International, 2012, 222, 400.e1-400.e5.	2.2	43
18	The AÎ² peptide forms non-amyloid fibrils in the presence of carbon nanotubes. Nanoscale, 2014, 6, 6720-6726.	5.6	43

#	Article	IF	Citations
19	Reciprocal Molecular Interactions between the AÎ² Peptide Linked to Alzheimerâ€™s Disease and Insulin Linked to Diabetes Mellitus Type II. ACS Chemical Neuroscience, 2016, 7, 269-274.	3.5	37
20	Specific Binding of Cu(II) Ions to Amyloid-Beta Peptides Bound to Aggregation-Inhibiting Molecules or SDS Micelles Creates Complexes that Generate Radical Oxygen Species. Journal of Alzheimer's Disease, 2016, 54, 971-982.	2.6	34
21	Selfâ€Assembled Cyclic <scp>d,l</scp>â€Î±â€Peptides as Generic Conformational Inhibitors of the Î±â€Synuclein Aggregation and Toxicity: In Vitro and Mechanistic Studies. Chemistry - A European Journal, 2016, 22, 14236-14246.	3.3	34
22	Membrane-mimetic systems for biophysical studies of the amyloid-Î² peptide. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2019, 1867, 492-501.	2.3	34
23	Identification of Group Affinity from Crossâ€sectional Contours of the Human Midfacial Skeleton Using Digital Morphometrics and 3D Laser Scanning Technology*^{,â€¡}. Journal of Forensic Sciences, 2011, 56, 333-338.	1.6	32
24	Alzheimer Peptides Aggregate into Transient Nanoglobules That Nucleate Fibrils. Biochemistry, 2014, 53, 6302-6308.	2.5	32
25	Nâ€terminal engineering of amyloidâ€Î²â€binding Affibody molecules yields improved chemical synthesis and higher binding affinity. Protein Science, 2010, 19, 2319-2329.	7.6	30
26	Endogenous Polyamines Reduce the Toxicity of Soluble AÎ² Peptide Aggregates Associated with Alzheimerâ€™s Disease. Biomacromolecules, 2014, 15, 1985-1991.	5.4	30
27	Fluted point manufacture in eastern North America: an assessment of form and technology using traditional metrics and 3D digital morphometrics. World Archaeology, 2014, 46, 101-122.	1.1	29
28	Sexual dimorphism and regional variation in human frontal bone inclination measured via digital 3D models. Legal Medicine, 2017, 29, 53-61.	1.3	28
29	Evaluating sexual dimorphism in the human mastoid process: A viewpoint on the methodology. Clinical Anatomy, 2015, 28, 593-601.	2.7	27
30	Landmark Typology in Applied Morphometrics Studies: What's the Point?. Anatomical Record, 2019, 302, 1144-1153.	1.4	26
31	Mercury and Alzheimerâ€™s Disease: Hg(II) Ions Display Specific Binding to the Amyloid-Î² Peptide and Hinder Its Fibrillization. Biomolecules, 2020, 10, 44.	4.0	26
32	Photoactive chlorin e6 is a multifunctional modulator of amyloid-Î² aggregation and toxicity via specific interactions with its histidine residues. Chemical Science, 2019, 10, 208-217.	7.4	25
33	Zygomaticomaxillary suture shape analyzed with digital morphometrics: Reassessing patterns of variation in American Indian and European populations. Forensic Science International, 2012, 217, 234.e1-234.e6.	2.2	22
34	The Amyloidâ€Î² Peptide in Amyloid Formation Processes: Interactions with Blood Proteins and Naturally Occurring Metal Ions. Israel Journal of Chemistry, 2017, 57, 674-685.	2.3	21
35	Characterization of 17Th-19Th Century Metal Threads from the Colonial Andes. Journal of the American Institute for Conservation, 2007, 46, 229-244.	0.5	20
36	Engineered non-fluorescent Affibody molecules facilitate studies of the amyloid-beta (AÎ²) peptide in monomeric form: Low pH was found to reduce AÎ²/Cu(II) binding affinity. Journal of Inorganic Biochemistry, 2013, 120, 18-23.	3.5	19

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37	Sexual dimorphism in frontal bone roundness quantified by a novel 3D-based and landmark-free method. Forensic Science International, 2016, 261, 162.e1-162.e5.	2.2	18
38	Tracing social interactions in Pleistocene North America via 3D model analysis of stone tool asymmetry. PLoS ONE, 2017, 12, e0179933.	2.5	18
39	Cribra orbitalia as a potential indicator of childhood stress: Evidence from paleopathology, stable C, N, and O isotopes, and trace element concentrations in children from a 17 th â¿¿18 th century cemetery in JÄ¿kabpils, Latvia. Journal of Trace Elements in Medicine and Biology, 2016, 38, 131-137.	3.0	17
40	Ancient water bottle use and polycyclic aromatic hydrocarbon (PAH) exposure among California Indians: a prehistoric health risk assessment. Environmental Health, 2017, 16, 61.	4.0	17
41	Estimating the Temperature of Heatâ€exposed Bone via Machine Learning Analysis of SCI Color Values: A Pilot Study. Journal of Forensic Sciences, 2019, 64, 190-195.	1.6	16
42	Sampling and statistical considerations for the Sucheyâ€“Brooks method for pubic bone age estimation: Implications for regional comparisons. Science and Justice - Journal of the Forensic Science Society, 2011, 51, 131-134.	2.1	15
43	Could the Health Decline of Prehistoric California Indians be Related to Exposure to Polycyclic Aromatic Hydrocarbons (PAHs) from Natural Bitumen?. Environmental Health Perspectives, 2011, 119, 1203-1207.	6.0	15
44	Copper ions induce dityrosine-linked dimers in human but not in murine islet amyloid polypeptide (IAPP/amylin). Biochemical and Biophysical Research Communications, 2019, 510, 520-524.	2.1	15
45	Metallurgical findings from a Viking Age chieftainâ€™s farm in Iceland. Journal of Archaeological Science, 2010, 37, 2284-2290.	2.4	14
46	Perturbations of model membranes induced by pathogenic dynorphin A mutants causing neurodegeneration in human brain. Biochemical and Biophysical Research Communications, 2011, 411, 111-114.	2.1	14
47	Pro-Inflammatory S100A9 Protein Aggregation Promoted by NCAM1 Peptide Constructs. ACS Chemical Biology, 2019, 14, 1410-1417.	3.4	13
48	Amyotrophic Lateral Sclerosis After Exposure to Manganese from Traditional Medicine Procedures in Kenya. Biological Trace Element Research, 2021, 199, 3618-3624.	3.5	13
49	Metals in ALS TDP-43 Pathology. International Journal of Molecular Sciences, 2021, 22, 12193.	4.1	13
50	Residue analysis links sandstone abraders to shell fishhook production on San Nicolas Island, California. Journal of Archaeological Science, 2015, 54, 287-293.	2.4	10
51	New applications of 3D modeling in artefact analysis: three case studies of Viking Age brooches. Archaeological and Anthropological Sciences, 2016, 8, 651-662.	1.8	10
52	Theoretical modelling of epigenetically modified DNA sequences. F1000Research, 2015, 4, 52.	1.6	10
53	Analysis and interpretation of a unique Arabic finger ring from the Viking Age town of Birka, Sweden. Scanning, 2015, 37, 131-137.	1.5	9
54	Cell-Penetrating Peptides with Unexpected Anti-Amyloid Properties. Pharmaceutics, 2022, 14, 823.	4.5	9

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55	Zn(II) binding causes interdomain changes in the structure and flexibility of the human prion protein. Scientific Reports, 2021, 11, 21703.	3.3	8
56	Brief communication: Additional cases of maxillary canineâ€first premolar transposition in several prehistoric skeletal assemblages from the Santa Barbara Channel Islands of California. American Journal of Physical Anthropology, 2010, 143, 155-160.	2.1	7
57	A Case of Contested Cremains Analyzed Through Metric and Chemical Comparison. Journal of Forensic Sciences, 2015, 60, 1068-1073.	1.6	7
58	Sexual dimorphism in mastoid process volumes measured from 3D models of dry crania from mediaeval Croatia. HOMO- Journal of Comparative Human Biology, 2021, 72, 113-127.	0.7	7
59	Residue analysis, use-wear patterns, and replicative studies indicate that sandstone tools were used as reamers when producing shell fishhooks on San Nicolas Island, California. Journal of Archaeological Science: Reports, 2018, 20, 502-505.	0.5	2
60	Metal residues in 5th c. BCEâ€“13th c. CE Estonian tools for non-ferrous metal casting. Journal of Archaeological Science: Reports, 2018, 19, 35-51.	0.5	1
61	Finger width as a measure of femoral block puncture site: an ultrasonographic anatomical-anthropometric study. Journal of Clinical Anesthesia, 2015, 27, 553-557.	1.6	0