

Sebastian K T S WÃ¼rmlÃ¤nder

List of Publications by Year in descending order

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61
papers

2,076
citations

218677

26
h-index

276875

41
g-index

69
all docs

69
docs citations

69
times ranked

2665
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell-Penetrating Peptides with Unexpected Anti-Amyloid Properties. <i>Pharmaceutics</i> , 2022, 14, 823.	4.5	9
2	Amyotrophic Lateral Sclerosis After Exposure to Manganese from Traditional Medicine Procedures in Kenya. <i>Biological Trace Element Research</i> , 2021, 199, 3618-3624.	3.5	13
3	Sexual dimorphism in mastoid process volumes measured from 3D models of dry crania from mediaeval Croatia. <i>HOMO- Journal of Comparative Human Biology</i> , 2021, 72, 113-127.	0.7	7
4	Zn(II) binding causes interdomain changes in the structure and flexibility of the human prion protein. <i>Scientific Reports</i> , 2021, 11, 21703.	3.3	8
5	Metals in ALS TDP-43 Pathology. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12193.	4.1	13
6	Mercury and Alzheimer's Disease: Hg(II) Ions Display Specific Binding to the Amyloid- β Peptide and Hinder Its Fibrillization. <i>Biomolecules</i> , 2020, 10, 44.	4.0	26
7	Designed Cell-Penetrating Peptide Inhibitors of Amyloid-beta Aggregation and Cytotoxicity. <i>Cell Reports Physical Science</i> , 2020, 1, 100014.	5.6	47
8	Estimating the Temperature of Heat-Exposed Bone via Machine Learning Analysis of SCI Color Values: A Pilot Study. <i>Journal of Forensic Sciences</i> , 2019, 64, 190-195.	1.6	16
9	Metal binding to the amyloid- β peptides in the presence of biomembranes: potential mechanisms of cell toxicity. <i>Journal of Biological Inorganic Chemistry</i> , 2019, 24, 1189-1196.	2.6	49
10	Photoactive chlorin e6 is a multifunctional modulator of amyloid- β aggregation and toxicity <i>via</i> specific interactions with its histidine residues. <i>Chemical Science</i> , 2019, 10, 208-217.	7.4	25
11	Pro-Inflammatory S100A9 Protein Aggregation Promoted by NCAM1 Peptide Constructs. <i>ACS Chemical Biology</i> , 2019, 14, 1410-1417.	3.4	13
12	Effects of <i>in vivo</i> conditions on amyloid aggregation. <i>Chemical Society Reviews</i> , 2019, 48, 3946-3996.	38.1	148
13	Copper ions induce dityrosine-linked dimers in human but not in murine islet amyloid polypeptide (IAPP/amylin). <i>Biochemical and Biophysical Research Communications</i> , 2019, 510, 520-524.	2.1	15
14	Membrane-mimetic systems for biophysical studies of the amyloid- β peptide. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 492-501.	2.3	34
15	Landmark Typology in Applied Morphometrics Studies: What's the Point?. <i>Anatomical Record</i> , 2019, 302, 1144-1153.	1.4	26
16	Amyloid- β Peptide Interactions with Amphiphilic Surfactants: Electrostatic and Hydrophobic Effects. <i>ACS Chemical Neuroscience</i> , 2018, 9, 1680-1692.	3.5	51
17	The Neuronal Tau Protein Blocks <i>in Vitro</i> Fibrillation of the Amyloid- β ($A\beta$) Peptide at the Oligomeric Stage. <i>Journal of the American Chemical Society</i> , 2018, 140, 8138-8146.	13.7	49
18	Metal residues in 5th c. BCE–13th c. CE Estonian tools for non-ferrous metal casting. <i>Journal of Archaeological Science: Reports</i> , 2018, 19, 35-51.	0.5	1

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19	Co-aggregation of pro-inflammatory S100A9 with α -synuclein in Parkinson's disease: ex vivo and in vitro studies. <i>Journal of Neuroinflammation</i> , 2018, 15, 172.	7.2	50
20	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. <i>Journal of Archaeological Science: Reports</i> , 2018, 20, 502-505.	0.5	2
21	The Amyloid- β Peptide in Amyloid Formation Processes: Interactions with Blood Proteins and Naturally Occurring Metal Ions. <i>Israel Journal of Chemistry</i> , 2017, 57, 674-685.	2.3	21
22	Alzheimer's disease and cigarette smoke components: effects of nicotine, PAHs, and Cd(II), Cr(III), Pb(II), Pb(IV) ions on amyloid- β peptide aggregation. <i>Scientific Reports</i> , 2017, 7, 14423.	3.3	81
23	Sexual dimorphism and regional variation in human frontal bone inclination measured via digital 3D models. <i>Legal Medicine</i> , 2017, 29, 53-61.	1.3	28
24	Ancient water bottle use and polycyclic aromatic hydrocarbon (PAH) exposure among California Indians: a prehistoric health risk assessment. <i>Environmental Health</i> , 2017, 16, 61.	4.0	17
25	Tracing social interactions in Pleistocene North America via 3D model analysis of stone tool asymmetry. <i>PLoS ONE</i> , 2017, 12, e0179933.	2.5	18
26	New applications of 3D modeling in artefact analysis: three case studies of Viking Age brooches. <i>Archaeological and Anthropological Sciences</i> , 2016, 8, 651-662.	1.8	10
27	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. <i>Journal of Alzheimer's Disease</i> , 2016, 54, 971-982.	2.6	34
28	Characterization of Mn(II) ion binding to the amyloid- β peptide in Alzheimer's disease. <i>Journal of Trace Elements in Medicine and Biology</i> , 2016, 38, 183-193.	3.0	60
29	Self-Assembled Cyclic α -Peptides as Generic Conformational Inhibitors of the α -Synuclein Aggregation and Toxicity: In Vitro and Mechanistic Studies. <i>Chemistry - A European Journal</i> , 2016, 22, 14236-14246.	3.3	34
30	Cross-interactions between the Alzheimer Disease Amyloid- β Peptide and Other Amyloid Proteins: A Further Aspect of the Amyloid Cascade Hypothesis. <i>Journal of Biological Chemistry</i> , 2016, 291, 16485-16493.	3.4	117
31	Cribr 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 -18 th century cemetery in Jārkabpils, Latvia. <i>Journal of Trace Elements in Medicine and Biology</i> , 2016, 38, 131-137.	3.0	17
32	Reciprocal Molecular Interactions between the α -Peptide Linked to Alzheimer's Disease and Insulin Linked to Diabetes Mellitus Type II. <i>ACS Chemical Neuroscience</i> , 2016, 7, 269-274.	3.5	37
33	Sexual dimorphism in frontal bone roundness quantified by a novel 3D-based and landmark-free method. <i>Forensic Science International</i> , 2016, 261, 162.e1-162.e5.	2.2	18
34	Evaluating sexual dimorphism in the human mastoid process: A viewpoint on the methodology. <i>Clinical Anatomy</i> , 2015, 28, 593-601.	2.7	27
35	A Case of Contested Remains Analyzed Through Metric and Chemical Comparison. <i>Journal of Forensic Sciences</i> , 2015, 60, 1068-1073.	1.6	7
36	Residue analysis links sandstone abrasers to shell fishhook production on San Nicolas Island, California. <i>Journal of Archaeological Science</i> , 2015, 54, 287-293.	2.4	10

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37	Analysis and interpretation of a unique Arabic finger ring from the Viking Age town of Birka, Sweden. <i>Scanning</i> , 2015, 37, 131-137.	1.5	9
38	Finger width as a measure of femoral block puncture site: an ultrasonographic anatomical-anthropometric study. <i>Journal of Clinical Anesthesia</i> , 2015, 27, 553-557.	1.6	0
39	Theoretical modelling of epigenetically modified DNA sequences. <i>F1000Research</i> , 2015, 4, 52.	1.6	10
40	Fluted point manufacture in eastern North America: an assessment of form and technology using traditional metrics and 3D digital morphometrics. <i>World Archaeology</i> , 2014, 46, 101-122.	1.1	29
41	The A β peptide forms non-amyloid fibrils in the presence of carbon nanotubes. <i>Nanoscale</i> , 2014, 6, 6720-6726.	5.6	43
42	Endogenous Polyamines Reduce the Toxicity of Soluble A β Peptide Aggregates Associated with Alzheimer's Disease. <i>Biomacromolecules</i> , 2014, 15, 1985-1991.	5.4	30
43	Alzheimer Peptides Aggregate into Transient Nanoglobules That Nucleate Fibrils. <i>Biochemistry</i> , 2014, 53, 6302-6308.	2.5	32
44	The hairpin conformation of the amyloid β peptide is an important structural motif along the aggregation pathway. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 623-634.	2.6	88
45	Non-chaperone Proteins Can Inhibit Aggregation and Cytotoxicity of Alzheimer Amyloid β Peptide. <i>Journal of Biological Chemistry</i> , 2014, 289, 27766-27775.	3.4	53
46	Engineered non-fluorescent Affibody molecules facilitate studies of the amyloid-beta (A β) peptide in monomeric form: Low pH was found to reduce A β /Cu(II) binding affinity. <i>Journal of Inorganic Biochemistry</i> , 2013, 120, 18-23.	3.5	19
47	Cellular Polyamines Promote Amyloid-Beta (A β) Peptide Fibrillation and Modulate the Aggregation Pathways. <i>ACS Chemical Neuroscience</i> , 2013, 4, 454-462.	3.5	89
48	In Vitro and Mechanistic Studies of an Antiamyloidogenic Self-Assembled Cyclic β -Peptide Architecture. <i>Journal of the American Chemical Society</i> , 2013, 135, 3474-3484.	13.7	95
49	Sexual dimorphism in human browridge volume measured from 3D models of dry crania: A new digital morphometrics approach. <i>Forensic Science International</i> , 2012, 222, 400.e1-400.e5.	2.2	43
50	Flake scar patterns of Clovis points analyzed with a new digital morphometrics approach: evidence for direct transmission of technological knowledge across early North America. <i>Journal of Archaeological Science</i> , 2012, 39, 3018-3026.	2.4	71
51	pH-dependence of the specific binding of Cu(II) and Zn(II) ions to the amyloid- β peptide. <i>Biochemical and Biophysical Research Communications</i> , 2012, 421, 554-560.	2.1	46
52	Zygomaticomaxillary suture shape analyzed with digital morphometrics: Reassessing patterns of variation in American Indian and European populations. <i>Forensic Science International</i> , 2012, 217, 234.e1-234.e6.	2.2	22
53	Perturbations of model membranes induced by pathogenic dynorphin A mutants causing neurodegeneration in human brain. <i>Biochemical and Biophysical Research Communications</i> , 2011, 411, 111-114.	2.1	14
54	Identification of Group Affinity from Cross-sectional Contours of the Human Midfacial Skeleton Using Digital Morphometrics and 3D Laser Scanning Technology*. <i>Journal of Forensic Sciences</i> , 2011, 56, 333-338.	1.6	32

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55	Sampling and statistical considerations for the Suchey-Brooks method for pubic bone age estimation: Implications for regional comparisons. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2011, 51, 131-134.	2.1	15
56	Could the Health Decline of Prehistoric California Indians be Related to Exposure to Polycyclic Aromatic Hydrocarbons (PAHs) from Natural Bitumen?. <i>Environmental Health Perspectives</i> , 2011, 119, 1203-1207.	6.0	15
57	N-terminal engineering of amyloid-binding Affibody molecules yields improved chemical synthesis and higher binding affinity. <i>Protein Science</i> , 2010, 19, 2319-2329.	7.6	30
58	Variation in the Measurement of Cranial Volume and Surface Area Using 3D Laser Scanning Technology. <i>Journal of Forensic Sciences</i> , 2010, 55, 871-876.	1.6	108
59	Metallurgical findings from a Viking Age chieftain's farm in Iceland. <i>Journal of Archaeological Science</i> , 2010, 37, 2284-2290.	2.4	14
60	Brief communication: Additional cases of maxillary canine-first premolar transposition in several prehistoric skeletal assemblages from the Santa Barbara Channel Islands of California. <i>American Journal of Physical Anthropology</i> , 2010, 143, 155-160.	2.1	7
61	Characterization of 17Th-19Th Century Metal Threads from the Colonial Andes. <i>Journal of the American Institute for Conservation</i> , 2007, 46, 229-244.	0.5	20