

Sofie Nyström

List of Publications by Year in descending order

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43
papers

1,982
citations

304743

22
h-index

276875

41
g-index

46
all docs

46
docs citations

46
times ranked

2668
citing authors

#	ARTICLE	IF	CITATIONS
1	ApoE facilitates the microglial response to amyloid plaque pathology. <i>Journal of Experimental Medicine</i> , 2018, 215, 1047-1058.	8.5	194
2	Lysozyme Amyloidogenesis Is Accelerated by Specific Nicking and Fragmentation but Decelerated by Intact Protein Binding and Conversion. <i>Journal of Molecular Biology</i> , 2007, 366, 1029-1044.	4.2	181
3	Imaging Distinct Conformational States of Amyloid- β^2 Fibrils in Alzheimer's Disease Using Novel Luminescent Probes. <i>ACS Chemical Biology</i> , 2007, 2, 553-560.	3.4	177
4	Amyloid polymorphisms constitute distinct clouds of conformational variants in different etiological subtypes of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13018-13023.	7.1	170
5	Synthesis of a library of oligothiophenes and their utilization as fluorescent ligands for spectral assignment of protein aggregates. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 8356.	2.8	162
6	Structure-based drug design identifies polythiophenes as anti-prion compounds. <i>Science Translational Medicine</i> , 2015, 7, 299ra123.	12.4	130
7	Evidence for Age-Dependent <i>in Vivo</i> Conformational Rearrangement within $A\beta^2$ Amyloid Deposits. <i>ACS Chemical Biology</i> , 2013, 8, 1128-1133.	3.4	93
8	A Fluorescent Pentameric Thiophene Derivative Detects <i>in Vitro</i> -Formed Prefibrillar Protein Aggregates. <i>Biochemistry</i> , 2010, 49, 6838-6845.	2.5	88
9	De novo design of a biologically active amyloid. <i>Science</i> , 2016, 354, .	12.6	63
10	Amyloidogenesis of SARS-CoV-2 Spike Protein. <i>Journal of the American Chemical Society</i> , 2022, 144, 8945-8950.	13.7	59
11	Polythiophenes Inhibit Prion Propagation by Stabilizing Prion Protein (PrP) Aggregates. <i>Journal of Biological Chemistry</i> , 2012, 287, 18872-18887.	3.4	58
12	Pyroglutamation of amyloid- β^2 -42 ($A\beta^2$ -42) followed by $A\beta^2$ -40 deposition underlies plaque polymorphism in progressing Alzheimer's disease pathology. <i>Journal of Biological Chemistry</i> , 2019, 294, 6719-6732.	3.4	49
13	Distinct Spacing Between Anionic Groups: An Essential Chemical Determinant for Achieving Thiophene-Based Ligands to Distinguish β^2 -Amyloid or Tau Polymorphic Aggregates. <i>Chemistry - A European Journal</i> , 2015, 21, 9072-9082.	3.3	44
14	Synthesis and evaluation of benzothiazole-triazole and benzothiadiazole-triazole scaffolds as potential molecular probes for amyloid- β^2 aggregation. <i>New Journal of Chemistry</i> , 2017, 41, 1566-1573.	2.8	39
15	Multimodal Chemical Imaging of Amyloid Plaque Polymorphism Reveals $A\beta^2$ Aggregation Dependent Anionic Lipid Accumulations and Metabolism. <i>Analytical Chemistry</i> , 2018, 90, 8130-8138.	6.5	39
16	S100A9-Driven Amyloid-Neuroinflammatory Cascade in Traumatic Brain Injury as a Precursor State for Alzheimer's Disease. <i>Scientific Reports</i> , 2018, 8, 12836.	3.3	38
17	Amyloid fibrils of human prion protein are spun and woven from morphologically disordered aggregates. <i>Prion</i> , 2009, 3, 224-235.	1.8	34
18	Prion protein glycans reduce intracerebral fibril formation and spongiosis in prion disease. <i>Journal of Clinical Investigation</i> , 2020, 130, 1350-1362.	8.2	32

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19	Phenolic Bis-styrylbenzo[<i>c</i>]-1,2,5-thiadiazoles as Probes for Fluorescence Microscopy Mapping of A β Plaque Heterogeneity. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2038-2048.	6.4	30
20	Nanoscale Structure and Spectroscopic Probing of A β ²¹⁻⁴⁰ Fibril Bundle Formation. <i>Frontiers in Chemistry</i> , 2016, 4, 44.	3.6	29
21	Native, amyloid fibrils and A β -oligomers of the C-terminal domain of human prion protein display differential activation of complement and bind C1q, factor H and C4b-binding protein directly. <i>Molecular Immunology</i> , 2008, 45, 3213-3221.	2.2	27
22	Distinct conformers of amyloid beta accumulate in the neocortex of patients with rapidly progressive Alzheimer's disease. <i>Journal of Biological Chemistry</i> , 2021, 297, 101267.	3.4	25
23	Two-Photon Fluorescence and Magnetic Resonance Specific Imaging of A β Amyloid Using Hybrid Nano-GdF ₃ Contrast Media. <i>ACS Applied Bio Materials</i> , 2018, 1, 462-472.	4.6	24
24	Detection and Imaging of A β 42 and Tau Fibrils by Redesigned Fluorescent X β 4 Analogues. <i>Chemistry - A European Journal</i> , 2018, 24, 7210-7216.	3.3	22
25	Aggregated A β ¹⁻⁴² Is Selectively Toxic for Neurons, Whereas Glial Cells Produce Mature Fibrils with Low Toxicity in <i>Drosophila</i> . <i>Cell Chemical Biology</i> , 2018, 25, 595-610.e5.	5.2	21
26	Multiple Substitutions of Methionine 129 in Human Prion Protein Reveal Its Importance in the Amyloid Fibrillation Pathway. <i>Journal of Biological Chemistry</i> , 2012, 287, 25975-25984.	3.4	19
27	<i>trans</i> -Stilbenoids with Extended Fluorescence Lifetimes for the Characterization of Amyloid Fibrils. <i>ACS Omega</i> , 2017, 2, 4693-4704.	3.5	16
28	Generic amyloidogenicity of mammalian prion proteins from species susceptible and resistant to prions. <i>Scientific Reports</i> , 2015, 5, 10101.	3.3	15
29	Imaging Amyloid Tissues Stained with Luminescent Conjugated Oligothiophenes by Hyperspectral Confocal Microscopy and Fluorescence Lifetime Imaging. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	14
30	Insulin amyloid polymorphs: implications for iatrogenic cytotoxicity. <i>RSC Advances</i> , 2020, 10, 37721-37727.	3.6	12
31	Nanoscopic and Photonic Ultrastructural Characterization of Two Distinct Insulin Amyloid States. <i>International Journal of Molecular Sciences</i> , 2012, 13, 1461-1480.	4.1	10
32	Intramolecular Proton and Charge Transfer of Pyrene-based <i>trans</i> -Stilbene Salicylic Acids Applied to Detection of Aggregated Proteins. <i>ChemPhysChem</i> , 2018, 19, 3001-3009.	2.1	10
33	Spectral correlation analysis of Amyloid A β plaque inhomogeneity from double staining experiments. <i>Journal of Biomedical Optics</i> , 2013, 18, 1.	2.6	9
34	Is the prevalent human prion protein 129M/V mutation a living fossil from a Paleolithic panzootic superprion pandemic?. <i>Prion</i> , 2014, 8, 2-10.	1.8	8
35	Impact of N-glycosylation site variants during human PrP aggregation and fibril nucleation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 909-921.	2.3	8
36	Porcine prion protein amyloid. <i>Prion</i> , 2015, 9, 266-277.	1.8	6

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37	Purification and Fibrillation of Recombinant Human Amyloid- β , Prion Protein, and Tau Under Native Conditions. <i>Methods in Molecular Biology</i> , 2018, 1779, 147-166.	0.9	6
38	Fibrillation and molecular characteristics are coherent with clinical and pathological features of 4-repeat tauopathy caused by MAPT variant G273R. <i>Neurobiology of Disease</i> , 2020, 146, 105079.	4.4	4
39	Amyloid fibril polymorphism and cell-specific toxicity <i>in vivo</i> . <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2019, 26, 136-137.	3.0	3
40	Seed-dependent templating of murine AA amyloidosis. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , 2017, 24, 140-141.	3.0	2
41	Tyrosine Side-Chain Functionalities at Distinct Positions Determine the Chiroptical Properties and Supramolecular Structures of Pentameric Oligothiophenes. <i>ChemistryOpen</i> , 2020, 9, 1100-1108.	1.9	2
42	HSP10 as a Chaperone for Neurodegenerative Amyloid Fibrils. <i>Frontiers in Neuroscience</i> , 0, 16, .	2.8	2
43	Frontispiece: Distinct Spacing Between Anionic Groups: An Essential Chemical Determinant for Achieving Thiophene-Based Ligands to Distinguish β -Amyloid or Tau Polymorphic Aggregates. <i>Chemistry - A European Journal</i> , 2015, 21, .	3.3	0