

Thomas Schrader

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,828
citations

236925

25
h-index

265206

42
g-index

57
all docs

57
docs citations

57
times ranked

2322
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular tweezers – a new class of potent broad-spectrum antivirals against enveloped viruses. <i>Chemical Communications</i> , 2022, 58, 2954-2966.	4.1	6
2	The molecular tweezer CLR01 improves behavioral deficits and reduces tau pathology in P301S-tau transgenic mice. <i>Alzheimer's Research and Therapy</i> , 2021, 13, 6.	6.2	15
3	Specific inhibition of the Survivin–CRM1 interaction by peptide-modified molecular tweezers. <i>Nature Communications</i> , 2021, 12, 1505.	12.8	18
4	Prospects of ultraviolet resonance Raman spectroscopy in supramolecular chemistry on proteins. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 254, 119622.	3.9	6
5	Supramolecular Enhancement of a Natural 14 ³ Protein Ligand. <i>Journal of the American Chemical Society</i> , 2021, 143, 13495-13500.	13.7	8
6	The Molecular Tweezer CLR01 Inhibits Antibody-Resistant Cell-to-Cell Spread of Human Cytomegalovirus. <i>Viruses</i> , 2021, 13, 1685.	3.3	9
7	Lysine-selective molecular tweezers are cell penetrant and concentrate in lysosomes. <i>Communications Biology</i> , 2021, 4, 1076.	4.4	6
8	Inhibition of <i>Staphylococcus aureus</i> biofilm-forming functional amyloid by molecular tweezers. <i>Cell Chemical Biology</i> , 2021, 28, 1310-1320.e5.	5.2	15
9	New Tools to Probe the Protein Surface: Ultrasmall Gold Nanoparticles Carry Amino Acid Binders. <i>Journal of Physical Chemistry B</i> , 2021, 125, 115-127.	2.6	12
10	A tribute to Carsten Schmuck. <i>Beilstein Journal of Organic Chemistry</i> , 2021, 17, 2795-2798.	2.2	0
11	CLR01 protects dopaminergic neurons in vitro and in mouse models of Parkinson's disease. <i>Nature Communications</i> , 2020, 11, 4885.	12.8	39
12	Supramolecular Mechanism of Viral Envelope Disruption by Molecular Tweezers. <i>Journal of the American Chemical Society</i> , 2020, 142, 17024-17038.	13.7	31
13	Accelerated trypsin autolysis by affinity polymer templates. <i>RSC Advances</i> , 2020, 10, 28711-28719.	3.6	2
14	Different Inhibitors of A β 42-Induced Toxicity Have Distinct Metal-Ion Dependency. <i>ACS Chemical Neuroscience</i> , 2020, 11, 2243-2255.	3.5	2
15	The Amyloid Inhibitor CLR01 Relieves Autophagy and Ameliorates Neuropathology in a Severe Lysosomal Storage Disease. <i>Molecular Therapy</i> , 2020, 28, 1167-1176.	8.2	28
16	Structural rearrangement of amyloid- β upon inhibitor binding suppresses formation of Alzheimer's disease related oligomers. <i>ELife</i> , 2020, 9, .	6.0	20
17	Native Top-Down Mass Spectrometry and Ion Mobility Spectrometry of the Interaction of Tau Protein with a Molecular Tweezer Assembly Modulator. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 16-23.	2.8	39
18	The molecular tweezer CLR01 reduces aggregated, pathologic, and seeding-competent β -synuclein in experimental multiple system atrophy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 165513.	3.8	25

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19	Molecular Lysine Tweezers Counteract Aberrant Protein Aggregation. <i>Frontiers in Chemistry</i> , 2019, 7, 657.	3.6	17
20	Bisphosphonate ligand mediated ultrasensitive capacitive protein sensor: complementary match of supramolecular and dynamic chemistry. <i>New Journal of Chemistry</i> , 2019, 43, 847-852.	2.8	5
21	Dissociation of the Signaling Protein Kâ€Ras4B from Lipid Membranes Induced by a Molecular Tweezer. <i>Chemistry - A European Journal</i> , 2019, 25, 9827-9833.	3.3	5
22	Major Differences between the Self-Assembly and Seeding Behavior of Heparin-Induced and in Vitro Phosphorylated Tau and Their Modulation by Potential Inhibitors. <i>ACS Chemical Biology</i> , 2019, 14, 1363-1379.	3.4	34
23	The molecular tweezer CLR01 inhibits aberrant superoxide dismutase 1 (SOD1) self-assembly in vitro and in the G93A-SOD1 mouse model of ALS. <i>Journal of Biological Chemistry</i> , 2019, 294, 3501-3513.	3.4	30
24	The molecular tweezer CLR01 inhibits Ebola and Zika virus infection. <i>Antiviral Research</i> , 2018, 152, 26-35.	4.1	31
25	A Synthetic Methodology Toward Pyrrolo[2,3- <i>b</i>]pyridones for GC Base Pair Recognition. <i>Organic Letters</i> , 2018, 20, 6961-6964.	4.6	3
26	Cell entry of a host-targeting protein of oomycetes requires gp96. <i>Nature Communications</i> , 2018, 9, 2347.	12.8	28
27	Using Molecular Tweezers to Remodel Abnormal Protein Self-Assembly and Inhibit the Toxicity of Amyloidogenic Proteins. <i>Methods in Molecular Biology</i> , 2018, 1777, 369-386.	0.9	12
28	Molecular Tweezers with Additional Recognition Sites. <i>Chemistry - A European Journal</i> , 2018, 24, 11332-11343.	3.3	19
29	Inhibition of Huntingtin Exon-1 Aggregation by the Molecular Tweezer CLR01. <i>Journal of the American Chemical Society</i> , 2017, 139, 5640-5643.	13.7	49
30	A Binary Bivalent Supramolecular Assembly Platform Based on Cucurbit[8]uril and Dimeric Adapter Protein 14â€³â€³. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8998-9002.	13.8	81
31	A Molecular Tweezer Ameliorates Motor Deficits in Mice Overexpressing Î±-Synuclein. <i>Neurotherapeutics</i> , 2017, 14, 1107-1119.	4.4	49
32	Molecular Tweezers Inhibit PARPâ€¼ by a New Mechanism. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 2223-2229.	2.4	8
33	The Molecular Tweezer CLR01 Stabilizes a Disordered Proteinâ€“Protein Interface. <i>Journal of the American Chemical Society</i> , 2017, 139, 16256-16263.	13.7	56
34	Inhibition of Mutant Î²-Crystallinâ€“Induced Protein Aggregation by a Molecular Tweezer. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	15
35	Eine NMRâ€“Methode zur Bestimmung der Bindungsreihenfolge supramolekularer Liganden an basische Reste in Proteinen. <i>Angewandte Chemie</i> , 2017, 129, 14953-14957.	2.0	2
36	An NMR Method To Pinpoint Supramolecular Ligand Binding to Basic Residues on Proteins. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14758-14762.	13.8	16

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37	A Binary Bivalent Supramolecular Assembly Platform Based on Cucurbit[8]uril and Dimeric Adapter Protein 14â€³â€³. <i>Angewandte Chemie</i> , 2017, 129, 9126-9130.	2.0	26
38	Metabolic shift toward oxidative phosphorylation in docetaxel resistant prostate cancer cells. <i>Oncotarget</i> , 2016, 7, 61890-61904.	1.8	103
39	Protein Camouflage: Supramolecular Anion Recognition by Ubiquitin. <i>ChemBioChem</i> , 2016, 17, 774-783.	2.6	29
40	Reducing synuclein accumulation improves neuronal survival after spinal cord injury. <i>Experimental Neurology</i> , 2016, 278, 105-115.	4.1	28
41	Molecular tweezers for lysine and arginine â€“ powerful inhibitors of pathologic protein aggregation. <i>Chemical Communications</i> , 2016, 52, 11318-11334.	4.1	115
42	Characterizing the Effect of Multivalent Conjugates Composed of AÎ²-Specific Ligands and Metal Nanoparticles on Neurotoxic Fibrillar Aggregation. <i>ACS Nano</i> , 2016, 10, 7582-7597.	14.6	46
43	The Lys-Specific Molecular Tweezer, CLR01, Modulates Aggregation of the Mutant p53 DNA Binding Domain and Inhibits Its Toxicity. <i>Biochemistry</i> , 2015, 54, 3729-3738.	2.5	22
44	Amyloid Î²-Protein Assembly: The Effect of Molecular Tweezers CLR01 and CLR03. <i>Journal of Physical Chemistry B</i> , 2015, 119, 4831-4841.	2.6	69
45	Molecular Tweezers Inhibit Islet Amyloid Polypeptide Assembly and Toxicity by a New Mechanism. <i>ACS Chemical Biology</i> , 2015, 10, 1555-1569.	3.4	45
46	Toxicity Inhibitors Protect Lipid Membranes from Disruption by AÎ²42. <i>ACS Chemical Neuroscience</i> , 2015, 6, 1860-1869.	3.5	28
47	A molecular tweezer antagonizes seminal amyloids and HIV infection. <i>ELife</i> , 2015, 4, .	6.0	71
48	Molecular Basis for Preventing Î±-Synuclein Aggregation by a Molecular Tweezer. <i>Journal of Biological Chemistry</i> , 2014, 289, 10727-10737.	3.4	85
49	Molecular tweezers modulate 14-3-3 proteinâ€™protein interactions. <i>Nature Chemistry</i> , 2013, 5, 234-239.	13.6	176
50	Effect of molecular clips and tweezers on enzymatic reactions by binding coenzymes and basic amino acids. <i>Pure and Applied Chemistry</i> , 2010, 82, 991-999.	1.9	13
51	Artificial protein sensors. <i>Molecular BioSystems</i> , 2007, 3, 241.	2.9	29
52	A Molecular Tweezer for Lysine and Arginine. <i>Journal of the American Chemical Society</i> , 2005, 127, 14415-14421.	13.7	200