Thomas Schrader

List of Publications by Year
in descending order

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	A Molecular Tweezer for Lysine and Arginine. Journal of the American Chemical Society, 2005, 127, 14415-14421.	13.7	200
2	Molecular tweezers modulate 14-3-3 proteinâ€“protein interactions. Nature Chemistry, 2013, 5, 234-239.	13.6	176
3	Molecular tweezers for lysine and arginine â€“ powerful inhibitors of pathologic protein aggregation. Chemical Communications, 2016, 52, 11318-11334.	4.1	115
4	Metabolic shift toward oxidative phosphorylation in docetaxel resistant prostate cancer cells. Oncotarget, 2016, 7, 61890-61904.	1.8	103
5	Molecular Basis for Preventing Î±-Synuclein Aggregation by a Molecular Tweezer. Journal of Biological Chemistry, 2014, 289, 10727-10737.	3.4	85
6	A Binary Bivalent Supramolecular Assembly Platform Based on Cucurbit[8]uril and Dimeric Adapter Protein 14â€3â€3. Angewandte Chemie - International Edition, 2017, 56, 8998-9002.	13.8	81
7	A molecular tweezer antagonizes seminal amyloids and HIV infection. ELife, 2015, 4, .	6.0	71
8	Amyloid Î²-Protein Assembly: The Effect of Molecular Tweezers CLR01 and CLR03. Journal of Physical Chemistry B, 2015, 119, 4831-4841.	2.6	69
9	The Molecular Tweezer CLR01 Stabilizes a Disordered Proteinâ€“Protein Interface. Journal of the American Chemical Society, 2017, 139, 16256-16263.	13.7	56
10	Inhibition of Huntingtin Exon-1 Aggregation by the Molecular Tweezer CLR01. Journal of the American Chemical Society, 2017, 139, 5640-5643.	13.7	49
11	A Molecular Tweezer Ameliorates Motor Deficits in Mice Overexpressing Î±-Synuclein. Neurotherapeutics, 2017, 14, 1107-1119.	4.4	49
12	Characterizing the Effect of Multivalent Conjugates Composed of AÎ²-Specific Ligands and Metal Nanoparticles on Neurotoxic Fibrillar Aggregation. ACS Nano, 2016, 10, 7582-7597.	14.6	46
13	Molecular Tweezers Inhibit Islet Amyloid Polypeptide Assembly and Toxicity by a New Mechanism. ACS Chemical Biology, 2015, 10, 1555-1569.	3.4	45
14	Native Top-Down Mass Spectrometry and Ion Mobility Spectrometry of the Interaction of Tau Protein with a Molecular Tweezer Assembly Modulator. Journal of the American Society for Mass Spectrometry, 2019, 30, 16-23.	2.8	39
15	CLR01 protects dopaminergic neurons in vitro and in mouse models of Parkinsonâ€™s disease. Nature Communications, 2020, 11, 4885.	12.8	39
16	Major Differences between the Self-Assembly and Seeding Behavior of Heparin-Induced and in Vitro Phosphorylated Tau and Their Modulation by Potential Inhibitors. ACS Chemical Biology, 2019, 14, 1363-1379.	3.4	34
17	The molecular tweezer CLR01 inhibits Ebola and Zika virus infection. Antiviral Research, 2018, 152, 26-35.	4.1	31
18	Supramolecular Mechanism of Viral Envelope Disruption by Molecular Tweezers. Journal of the American Chemical Society, 2020, 142, 17024-17038.	13.7	31

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19	The molecular tweezer CLR01 inhibits aberrant superoxide dismutase 1 (SOD1) self-assembly in vitro and in the G93A-SOD1 mouse model of ALS. Journal of Biological Chemistry, 2019, 294, 3501-3513.	3.4	30
20	Artificial protein sensors. Molecular BioSystems, 2007, 3, 241.	2.9	29
21	Protein Camouflage: Supramolecular Anion Recognition by Ubiquitin. ChemBioChem, 2016, 17, 774-783.	2.6	29
22	Toxicity Inhibitors Protect Lipid Membranes from Disruption by AÎ²42. ACS Chemical Neuroscience, 2015, 6, 1860-1869.	3.5	28
23	Reducing synuclein accumulation improves neuronal survival after spinal cord injury. Experimental Neurology, 2016, 278, 105-115.	4.1	28
24	Cell entry of a host-targeting protein of oomycetes requires gp96. Nature Communications, 2018, 9, 2347.	12.8	28
25	The Amyloid Inhibitor CLR01 Relieves Autophagy and Ameliorates Neuropathology in a Severe Lysosomal Storage Disease. Molecular Therapy, 2020, 28, 1167-1176.	8.2	28
26	A Binary Bivalent Supramolecular Assembly Platform Based on Cucurbit[8]uril and Dimeric Adapter Protein 14â€³â€³. Angewandte Chemie, 2017, 129, 9126-9130.	2.0	26
27	The molecular tweezer CLR01 reduces aggregated, pathologic, and seeding-competent Î±-synuclein in experimental multiple system atrophy. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 165513.	3.8	25
28	The Lys-Specific Molecular Tweezer, CLR01, Modulates Aggregation of the Mutant p53 DNA Binding Domain and Inhibits Its Toxicity. Biochemistry, 2015, 54, 3729-3738.	2.5	22
29	Structural rearrangement of amyloid-Î² upon inhibitor binding suppresses formation of Alzheimerâ€™s disease related oligomers. ELife, 2020, 9, .	6.0	20
30	Molecular Tweezers with Additional Recognition Sites. Chemistry - A European Journal, 2018, 24, 11332-11343.	3.3	19
31	Specific inhibition of the Survivinâ€“CRM1 interaction by peptide-modified molecular tweezers. Nature Communications, 2021, 12, 1505.	12.8	18
32	Molecular Lysine Tweezers Counteract Aberrant Protein Aggregation. Frontiers in Chemistry, 2019, 7, 657.	3.6	17
33	An NMR Method To Pinpoint Supramolecular Ligand Binding to Basic Residues on Proteins. Angewandte Chemie - International Edition, 2017, 56, 14758-14762.	13.8	16
34	Inhibition of Mutant Î±B Crystallinâ€induced Protein Aggregation by a Molecular Tweezer. Journal of the American Heart Association, 2017, 6, .	3.7	15
35	The molecular tweezer CLR01 improves behavioral deficits and reduces tau pathology in P301S-tau transgenic mice. Alzheimer's Research and Therapy, 2021, 13, 6.	6.2	15
36	Inhibition of Staphylococcus aureus biofilm-forming functional amyloid by molecular tweezers. Cell Chemical Biology, 2021, 28, 1310-1320.e5.	5.2	15

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37	Effect of molecular clips and tweezers on enzymatic reactions by binding coenzymes and basic amino acids. Pure and Applied Chemistry, 2010, 82, 991-999.	1.9	13
38	Using Molecular Tweezers to Remodel Abnormal Protein Self-Assembly and Inhibit the Toxicity of Amyloidogenic Proteins. Methods in Molecular Biology, 2018, 1777, 369-386.	0.9	12
39	New Tools to Probe the Protein Surface: Ultrasmall Gold Nanoparticles Carry Amino Acid Binders. Journal of Physical Chemistry B, 2021, 125, 115-127.	2.6	12
40	The Molecular Tweezer CLR01 Inhibits Antibody-Resistant Cell-to-Cell Spread of Human Cytomegalovirus. Viruses, 2021, 13, 1685.	3.3	9
41	Molecular Tweezers Inhibit PARPâ€1 by a New Mechanism. European Journal of Organic Chemistry, 2017, 2017, 2223-2229.	2.4	8
42	Supramolecular Enhancement of a Natural 14â€“3â€“3 Protein Ligand. Journal of the American Chemical Society, 2021, 143, 13495-13500.	13.7	8
43	Prospects of ultraviolet resonance Raman spectroscopy in supramolecular chemistry on proteins. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 254, 119622.	3.9	6
44	Lysine-selective molecular tweezers are cell penetrant and concentrate in lysosomes. Communications Biology, 2021, 4, 1076.	4.4	6
45	Molecular tweezers â€“ a new class of potent broad-spectrum antivirals against enveloped viruses. Chemical Communications, 2022, 58, 2954-2966.	4.1	6
46	Bisphosphonate ligand mediated ultrasensitive capacitive protein sensor: complementary match of supramolecular and dynamic chemistry. New Journal of Chemistry, 2019, 43, 847-852.	2.8	5
47	Dissociation of the Signaling Protein Kâ€Ras4B from Lipid Membranes Induced by a Molecular Tweezer. Chemistry - A European Journal, 2019, 25, 9827-9833.	3.3	5
48	A Synthetic Methodology Toward Pyrrolo[2,3-b]pyridones for GC Base Pair Recognition. Organic Letters, 2018, 20, 6961-6964.	4.6	3
49	Eine NMRâ€Methode zur Bestimmung der Bindungsreihenfolge supramolekularer Liganden an basische Reste in Proteinen. Angewandte Chemie, 2017, 129, 14953-14957.	2.0	2
50	Accelerated trypsin autolysis by affinity polymer templates. RSC Advances, 2020, 10, 28711-28719.	3.6	2
51	Different Inhibitors of Aβ42-Induced Toxicity Have Distinct Metal-Ion Dependency. ACS Chemical Neuroscience, 2020, 11, 2243-2255.	3.5	2
52	A tribute to Carsten Schmuck. Beilstein Journal of Organic Chemistry, 2021, 17, 2795-2798.	2.2	0