Tanja Schirmeister

List of Publications by Citations

177 papers	4,612 citations	35 h-index	57 g-index
196 ext. papers	5,199 ext. citations	5.3 avg, IF	5.42 L-index

#	Paper	IF	Citations
177	Cysteine Proteases and Their Inhibitors. *Chemical Reviews*, **1997**, 97, 133-172	68.1	626
176	Development of peptidomimetics with a vinyl sulfone warhead as irreversible falcipain-2 inhibitors. *Journal of Medicinal Chemistry*, **2008**, 51, 988-96	8.3	170
175	Biochemistry and medicinal chemistry of the dengue virus protease. *Chemical Reviews*, **2014**, 114, 11348-81	68.1	89
174	The significance of ionic bonding in sulfur dioxide: bond orders from X-ray diffraction data. *Angewandte Chemie - International Edition*, **2012**, 51, 6776-9	16.4	83
173	Transcriptome and functional analysis of the eukaryotic-type serine/threonine kinase PknB in Staphylococcus aureus. *Journal of Bacteriology*, **2009**, 191, 4056-69	3.5	83
172	Prospective Evaluation of Free Energy Calculations for the Prioritization of Cathepsin L Inhibitors. *Journal of Medicinal Chemistry*, **2017**, 60, 2485-2497	8.3	82
171	Novel dengue virus NS2B/NS3 protease inhibitors. *Antimicrobial Agents and Chemotherapy*, **2015**, 59, 1100-9	5.9	80
170	Flavonoids as noncompetitive inhibitors of Dengue virus NS2B-NS3 protease: inhibition kinetics and docking studies. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 466-70	3.4	76
169	Inhibitors of cysteine proteases. *Current Topics in Medicinal Chemistry*, **2006**, 6, 331-53	3	74
168	Aziridine-2,3-dicarboxylate inhibitors targeting the major cysteine protease of Trypanosoma brucei as lead trypanocidal agents. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 2753-7	2.9	73
167	Novel peptidomimetics containing a vinyl ester moiety as highly potent and selective falcipain-2 inhibitors. *Journal of Medicinal Chemistry*, **2009**, 52, 2157-60	8.3	66
166	Evidence for substrate binding-induced zwitterion formation in the catalytic Cys-His dyad of the SARS-CoV main protease. *Biochemistry*, **2014**, 53, 5930-46	3.2	59
165	New peptidic cysteine protease inhibitors derived from the electrophilic alpha-amino acid aziridine-2,3-dicarboxylic acid. *Journal of Medicinal Chemistry*, **1999**, 42, 560-72	8.3	59
164	Aziridide-based inhibitors of cathepsin L: synthesis, inhibition activity, and docking studies. *ChemMedChem*, **2006**, 1, 1126-41	3.7	53
163	Theoretical studies about the influence of different ring substituents on the nucleophilic ring opening of three-membered heterocycles and possible implications for the mechanisms of cysteine protease inhibitors. *Journal of Organic Chemistry*, **2005**, 70, 233-7	4.2	53
162	Antioxidant and anti-protease activities of diazepinomicin from the sponge-associated Micromonospora strain RV115. *Marine Drugs*, **2012**, 10, 2208-21	6	52
161	Model Calculations about the Influence of Protic Environments on the Alkylation Step of Epoxide, Aziridine, and Thiirane Based Cysteine Protease Inhibitors. *Journal of Physical Chemistry A*, **2004**, 108, 7691-7701	2.8	51

160	On the origin of the stabilization of the zwitterionic resting state of cysteine proteases: a theoretical study. *Journal of the American Chemical Society*, **2008**, 130, 8696-705	16.4	50
159	Aziridine-2,3-dicarboxylates, peptidomimetic cysteine protease inhibitors with antileishmanial activity. *Antimicrobial Agents and Chemotherapy*, **2006**, 50, 2439-47	5.9	50
158	A new lead for nonpeptidic active-site-directed inhibitors of the severe acute respiratory syndrome coronavirus main protease discovered by a combination of screening and docking methods. *Journal of Medicinal Chemistry*, **2005**, 48, 6832-42	8.3	49
157	Aziridinyl peptides as inhibitors of cysteine proteases: effect of a free carboxylic acid function on inhibition. *Bioorganic and Medicinal Chemistry*, **2000**, 8, 1281-91	3.4	48
156	Quantum Chemical-Based Protocol for the Rational Design of Covalent Inhibitors. *Journal of the American Chemical Society*, **2016**, 138, 8332-5	16.4	47
155	Allicin and derivates are cysteine protease inhibitors with antiparasitic activity. *Bioorganic and Medicinal Chemistry Letters*, **2010**, 20, 5541-3	2.9	46
154	A comparative study on the experimentally derived electron densities of three protease inhibitor model compounds. *Organic and Biomolecular Chemistry*, **2008**, 6, 2295-307	3.9	44
153	Michael acceptor based antiplasmodial and antitrypanosomal cysteine protease inhibitors with unusual amino acids. *Journal of Medicinal Chemistry*, **2010**, 53, 1951-63	8.3	43
152	Tuning and predicting biological affinity: aryl nitriles as cysteine protease inhibitors. *Organic and Biomolecular Chemistry*, **2012**, 10, 5764-8	3.9	42
151	Atomistic insights into the inhibition of cysteine proteases: first QM/MM calculations clarifying the stereoselectivity of epoxide-based inhibitors. *Journal of Physical Chemistry B*, **2008**, 112, 11798-808	3.4	41
150	Atomistic insights into the inhibition of cysteine proteases: first QM/MM calculations clarifying the regiospecificity and the inhibition potency of epoxide- and aziridine-based inhibitors. *Journal of Physical Chemistry B*, **2008**, 112, 5458-69	3.4	41
149	Nonpeptidic vinyl and allyl phosphonates as falcipain-2 inhibitors. *ChemMedChem*, **2008**, 3, 1030-3	3.7	41
148	Optimization of triazine nitriles as rhodesain inhibitors: structure-activity relationships, bioisosteric imidazopyridine nitriles, and X-ray crystal structure analysis with human cathepsin L. *ChemMedChem*, **2013**, 8, 967-75	3.7	40
147	Screening of protease inhibitors as antiplasmodial agents. Part I: Aziridines and epoxides. *ChemMedChem*, **2007**, 2, 1214-24	3.7	39
146	Screening of electrophilic compounds yields an aziridinyl peptide as new active-site directed SARS-CoV main protease inhibitor. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 5365-9	2.9	39
145	Development of novel peptidomimetics containing a vinyl sulfone moiety as proteasome inhibitors. *ChemMedChem*, **2011**, 6, 1228-37	3.7	38
144	The importance of the active site histidine for the activity of epoxide- or aziridine-based inhibitors of cysteine proteases. *ChemMedChem*, **2007**, 2, 120-8	3.7	37
143	Cysteine protease inhibitors containing small rings. *Mini-Reviews in Medicinal Chemistry*, **2003**, 3, 585-96	3.2	37

142	Inhibition of the Cysteine Protease Human Cathepsin L by Triazine Nitriles: Amide???Heteroarene Stacking Interactions and Chalcogen Bonding in the S3 Pocket. *ChemMedChem*, **2017**, 12, 257-270	3.7	35
141	Quantitative detection of C-deuterated drugs by CARS microscopy and Raman microspectroscopy. *Analyst, The*, **2011**, 136, 3686-93	5	35
140	Rational design of aziridine-containing cysteine protease inhibitors with improved potency: studies on inhibition mechanism. *ChemMedChem*, **2006**, 1, 1021-8	3.7	35
139	Proline-Based Allosteric Inhibitors of Zika and Dengue Virus NS2B/NS3 Proteases. *Journal of Medicinal Chemistry*, **2019**, 62, 11359-11382	8.3	35
138	An improved synthesis of aziridine-2,3-dicarboxylates via azido alcohols Epimerization studies. *Tetrahedron: Asymmetry*, **2003**, 14, 3301-3312		34
137	Benchmark Study for the Cysteine-Histidine Proton Transfer Reaction in a Protein Environment: Gas Phase, COSMO, QM/MM Approaches. *Journal of Chemical Theory and Computation*, **2013**, 9, 1765-77	6.4	33
136	Development of Novel Peptide-Based Michael Acceptors Targeting Rhodesain and Falcipain-2 for the Treatment of Neglected Tropical Diseases (NTDs). *Journal of Medicinal Chemistry*, **2017**, 60, 6911-6923	8.3	31
135	Development of peptidomimetic boronates as proteasome inhibitors. *European Journal of Medicinal Chemistry*, **2013**, 64, 23-34	6.8	31
134	Aziridine-2,3-dicarboxylate-based cysteine cathepsin inhibitors induce cell death in Leishmania major associated with accumulation of debris in autophagy-related lysosome-like vacuoles. *Antimicrobial Agents and Chemotherapy*, **2010**, 54, 5028-41	5.9	31
133	Tetracycline-inducible expression of individual secreted aspartic proteases in Candida albicans allows isoenzyme-specific inhibitor screening. *Antimicrobial Agents and Chemotherapy*, **2008**, 52, 146-56	5.9	31
132	Dipeptidyl Nitroalkenes as Potent Reversible Inhibitors of Cysteine Proteases Rhodesain and Cruzain. *ACS Medicinal Chemistry Letters*, **2016**, 7, 1073-1076	4.3	31
131	Anti-protease and immunomodulatory activities of bacteria associated with Caribbean sponges. *Marine Biotechnology*, **2011**, 13, 883-92	3.4	30
130	Fluorine Scan of Inhibitors of the Cysteine Protease Human Cathepsin L: Dipolar and Quadrupolar Effects in the Stacking of Fluorinated Phenyl Rings on Peptide Amide Bonds. *ChemMedChem*, **2016**, 11, 1042-7	3.7	28
129	Potent and selective inhibition of cysteine proteases from Plasmodium falciparum and Trypanosoma brucei. *ChemMedChem*, **2011**, 6, 273-8	3.7	28
128	Peptidomimetics containing a vinyl ketone warhead as falcipain-2 inhibitors. *European Journal of Medicinal Chemistry*, **2011**, 46, 2058-65	6.8	28
127	Enzyme kinetics and hit validation in fluorimetric protease assays. *Current Topics in Medicinal Chemistry*, **2010**, 10, 368-82	3	28
126	Synthesis of novel peptidomimetics as inhibitors of protozoan cysteine proteases falcipain-2 and rhodesain. *European Journal of Medicinal Chemistry*, **2010**, 45, 3228-33	6.8	28
125	Electron-Density Determination of Electrophilic Building Blocks as Model Compounds for Protease Inhibitors. *European Journal of Organic Chemistry*, **2007**, 2007, 2759-2768	3.2	28

124	Development of rhodesain inhibitors with a 3-bromoisoxazoline warhead. *ChemMedChem*, **2013**, 8, 2070-6	3.7	27
123	Origin of the reactivity differences of substituted aziridines: CN vs CC bond breakages. *Journal of Organic Chemistry*, **2009**, 74, 5244-9	4.2	27
122	2 H-1,2,3-Triazole-Based Dipeptidyl Nitriles: Potent, Selective, and Trypanocidal Rhodesain Inhibitors by Structure-Based Design. *Journal of Medicinal Chemistry*, **2018**, 61, 3370-3388	8.3	26
121	Mechanistic study of the reaction of thiol-containing enzymes with alpha,beta-unsaturated carbonyl substrates by computation and chemoassays. *ChemMedChem*, **2010**, 5, 869-80	3.7	26
120	Constrained peptidomimetics as antiplasmodial falcipain-2 inhibitors. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 4928-38	3.4	26
119	Synthesis and antiplasmodial activity of a cysteine protease-inhibiting biotinylated aziridine-2,3-dicarboxylate. *Biological Chemistry*, **2004**, 385, 435-8	4.5	25
118	beta-Lactam derivatives as enzyme inhibitors: 1-peptidyl derivatives of 4-phenylazetidin-2-one as inhibitors of elastase and papain. *Archiv Der Pharmazie*, **2000**, 333, 243-53	4.3	25
117	Novel 2H-isoquinolin-3-ones as antiplasmodial falcipain-2 inhibitors. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 6505-11	3.4	24
116	Bis-acridines as lead antiparasitic agents: structure-activity analysis of a discrete compound library in vitro. *Antimicrobial Agents and Chemotherapy*, **2007**, 51, 2164-72	5.9	24
115	Non-peptidic inhibitors of cysteine proteases. *Mini-Reviews in Medicinal Chemistry*, **2003**, 3, 361-73	3.2	24
114	Evaluation of dipeptide nitriles as inhibitors of rhodesain, a major cysteine protease of Trypanosoma brucei. *Bioorganic and Medicinal Chemistry Letters*, **2017**, 27, 45-50	2.9	23
113	Natural products as inhibitors of recombinant cathepsin L of Leishmania mexicana. *Experimental Parasitology*, **2015**, 156, 42-8	2.1	23
112	Synthesis and molecular modeling studies of derivatives of a highly potent peptidomimetic vinyl ester as falcipain-2 inhibitors. *ChemMedChem*, **2012**, 7, 1594-600	3.7	23
111	Effect of protease inhibitors on exflagellation in Plasmodium falciparum. *Molecular and Biochemical Parasitology*, **2008**, 158, 208-12	1.9	23
110	Aziridine-2,3-dicarboxylic Acid Derivatives as Inhibitors of Papain. *Archiv Der Pharmazie*, **1996**, 329, 239-244	4.3	23
109	Enzyme-catalyzed hydrolyses of E/Z-diastereotopic and E/Z-diastereomeric esters. Effect on selectivity by reaction media. *Journal of Organic Chemistry*, **1993**, 58, 4819-4822	4.2	23
108	Optimization of peptidomimetic boronates bearing a P3 bicyclic scaffold as proteasome inhibitors. *European Journal of Medicinal Chemistry*, **2014**, 83, 1-14	6.8	22
107	Selected cytotoxic gold compounds cause significant inhibition of 20S proteasome catalytic activities. *Journal of Inorganic Biochemistry*, **2014**, 141, 79-82	4.2	22

106	Cathepsin B in antigen-presenting cells controls mediators of the Th1 immune response during Leishmania major infection. *PLoS Neglected Tropical Diseases*, **2014**, 8, e3194	4.8	22
105	Reactivity differences between β-unsaturated carbonyls and hydrazones investigated by experimental and theoretical electron density and electron localizability analyses. *Journal of Physical Chemistry A*, **2011**, 115, 12715-32	2.8	21
104	Development of novel dipeptide-like rhodesain inhibitors containing the 3-bromoisoxazoline warhead in a constrained conformation. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 7053-60	3.4	20
103	Identification of a new series of amides as non-covalent proteasome inhibitors. *European Journal of Medicinal Chemistry*, **2014**, 76, 1-9	6.8	20
102	Die Bedeutung ionischer Bindungsanteile in Schwefeldioxid-Bindungsordnungen aus Röntgenbeugungsdaten. *Angewandte Chemie*, **2012**, 124, 6880-6884	3.6	20
101	Peptidomimetic nitriles as selective inhibitors for the malarial cysteine protease falcipain-2. *MedChemComm*, **2011**, 2, 800	5	20
100	New tetromycin derivatives with anti-trypanosomal and protease inhibitory activities. *Marine Drugs*, **2011**, 9, 1682-97	6	20
99	Targeting of the Leishmania mexicana cysteine protease CPB2.8ΔCTE by decorated fused benzo[b]thiophene scaffold. *RSC Advances*, **2016**, 6, 30628-30635	3.7	19
98	Effect of electron-withdrawing substituents on the epoxide ring: an experimental and theoretical electron density analysis of a series of epoxide derivatives. *Journal of Organic Chemistry*, **2011**, 76, 1305-18	4.2	19
97	Rational design of improved aziridine-based inhibitors of cysteine proteases. *Journal of Physical Chemistry B*, **2009**, 113, 5282-9	3.4	19
96	Blocking effect of a biotinylated protease inhibitor on the egress of Plasmodium falciparum merozoites from infected red blood cells. *Biological Chemistry*, **2005**, 386, 499-502	4.5	19
95	Gold compounds as cysteine protease inhibitors: perspectives for pharmaceutical application as antiparasitic agents. *BioMetals*, **2017**, 30, 313-320	3.4	18
94	Synthesis and biological evaluation of papain-family cathepsin L-like cysteine protease inhibitors containing a 1,4-benzodiazepine scaffold as antiprotozoal agents. *ChemMedChem*, **2014**, 9, 1817-25	3.7	18
93	Aziridine-2,2-dicarboxylates: Synthesis, Reactions, and Photochromism. *Liebigs Annalen*, **1997**, 1997, 1895-1899		18
92	Identification of noncovalent proteasome inhibitors with high selectivity for chymotrypsin-like activity by a multistep structure-based virtual screening. *European Journal of Medicinal Chemistry*, **2016**, 121, 578-591	6.8	18
91	Structure-Function Evaluation of Imidazopyridine Derivatives Selective for β3-Subunit-Containing γ-Aminobutyric Acid Type A (GABA) Receptors. *Journal of Medicinal Chemistry*, **2018**, 61, 1951-1968	8.3	17
90	Taspase1: a misunderstood protease with translational cancer relevance. *Oncogene*, **2016**, 35, 3351-64	9.2	17
89	Synthesis and biological evaluation of novel peptidomimetics as rhodesain inhibitors. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 1184-91	5.6	17

88	Cis-Configured aziridines are new pseudo-irreversible dual-mode inhibitors of Candida albicans secreted aspartic protease 2. *ChemMedChem*, **2008**, 3, 302-15	3.7	17
87	Structure-Activity Relationships of Benzamides and Isoindolines Designed as SARS-CoV Protease Inhibitors Effective against SARS-CoV-2. *ChemMedChem*, **2021**, 16, 340-354	3.7	17
86	Asymmetric Disulfanylbenzamides as Irreversible and Selective Inhibitors of Staphylococcus aureus Sortase A. *ChemMedChem*, **2020**, 15, 839-850	3.7	16
85	Antiprotozoal and cysteine proteases inhibitory activity of dipeptidyl enoates. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 4624-4634	3.4	16
84	Protocol for rational design of covalently interacting inhibitors. *ChemPhysChem*, **2014**, 15, 3226-35	3.2	16
83	Selected gold compounds cause pronounced inhibition of Falcipain 2 and effectively block P. falciparum growth in vitro. *Journal of Inorganic Biochemistry*, **2011**, 105, 1576-9	4.2	16
82	Discovery of benzimidazole-based Leishmania mexicana cysteine protease CPB2.8CTE inhibitors as potential therapeutics for leishmaniasis. *Chemical Biology and Drug Design*, **2018**, 92, 1585-1596	2.9	15
81	Repurposing a Library of Human Cathepsin L Ligands: Identification of Macrocyclic Lactams as Potent Rhodesain and Trypanosoma brucei Inhibitors. *Journal of Medicinal Chemistry*, **2018**, 61, 3350-3369	8.3	15
80	A hyaluronic acidpentamidine bioconjugate as a macrophage mediated drug targeting delivery system for the treatment of leishmaniasis. *RSC Advances*, **2015**, 5, 95545-95550	3.7	15
79	Dipeptidyl Enoates As Potent Rhodesain Inhibitors That Display a Dual Mode of Action. *ChemMedChem*, **2015**, 10, 1484-7	3.7	15
78	Identification of plakortide E from the Caribbean sponge Plakortis halichondroides as a trypanocidal protease inhibitor using bioactivity-guided fractionation. *Marine Drugs*, **2014**, 12, 2614-22	6	15
77	On-bead screening of a combinatorial fumaric acid derived peptide library yields antiplasmodial cysteine protease inhibitors with unusual peptide sequences. *Journal of Medicinal Chemistry*, **2009**, 52, 5662-72	8.3	15
76	Lead Discovery of SARS-CoV-2 Main Protease Inhibitors through Covalent Docking-Based Virtual Screening. *Journal of Chemical Information and Modeling*, **2021**, 61, 2062-2073	6.1	15
75	Metabolomics analysis and biological investigation of three Malvaceae plants. *Phytochemical Analysis*, **2020**, 31, 204-214	3.4	15
74	Vinyl sulfone building blocks in covalently reversible reactions with thiols. *New Journal of Chemistry* , **2015**, 39, 5841-5853	3.6	14
73	Synthesis of C3/C1-Substituted Tetrahydroisoquinolines. *Molecules*, **2015**, 20, 14902-14	4.8	14
72	Challenging Problems in Charge Density Determination: Polar Bonds and Influence of the Environment. *Structure and Bonding*, **2011**, 47-97	0.9	14
71	New cis-configured aziridine-2-carboxylates as aspartic acid protease inhibitors. *ChemMedChem*, **2011**, 6, 141-52	3.7	14

70	(S)-Thiirancarboxylic acid as a reactive building block for a new class of cysteine protease inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2000**, 10, 2647-51	2.9	14
69	Naphthoquinones as Covalent Reversible Inhibitors of Cysteine Proteases-Studies on Inhibition Mechanism and Kinetics. *Molecules*, **2020**, 25,	4.8	14
68	Development of novel 1,4-benzodiazepine-based Michael acceptors as antitrypanosomal agents. *Bioorganic and Medicinal Chemistry Letters*, **2016**, 26, 3453-6	2.9	13
67	Development of novel selective peptidomimetics containing a boronic acid moiety, targeting the 20S proteasome as anticancer agents. *ChemMedChem*, **2014**, 9, 1801-16	3.7	13
66	Inhibition of cysteine proteases by peptides containing aziridine-2,3-dicarboxylic acid building blocks. *Biopolymers*, **1999**, 51, 87-97	2.2	13
65	Bistacrine derivatives as new potent antimalarials. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 3636-42	3.4	12
64	Development of a New Antileishmanial Aziridine-2,3-Dicarboxylate-Based Inhibitor with High Selectivity for Parasite Cysteine Proteases. *Antimicrobial Agents and Chemotherapy*, **2016**, 60, 797-805	5.9	12
63	Conformation and Hydrogen Bonding Properties of an Aziridinyl Peptide: X-ray Structure Analysis, Raman Spectroscopy and Theoretical Investigations. *Journal of Physical Chemistry A*, **2004**, 108, 11398-11408	2.8	12
62	Development and validation of a separation method for the diastereomers and enantiomers of aziridine-type protease inhibitors. *Electrophoresis*, **2005**, 26, 2313-9	3.6	12
61	Anticancer study of heterobimetallic platinum(II)-ruthenium(II) and platinum(II)-rhodium(III) complexes with bridging dithiooxamide ligand. *Journal of Organometallic Chemistry*, **2019**, 900, 120918	2.3	11
60	Optimization Strategy of Novel Peptide-Based Michael Acceptors for the Treatment of Human African Trypanosomiasis. *Journal of Medicinal Chemistry*, **2019**, 62, 10617-10629	8.3	11
59	FINDUS: An Open-Source 3D Printable Liquid-Handling Workstation for Laboratory Automation in Life Sciences. *SLAS Technology*, **2020**, 25, 190-199	3	11
58	Structure of the Human TRPML2 Ion Channel Extracytosolic/Lumenal Domain. *Structure*, **2019**, 27, 1246-1257.e5	3.2	10
57	Electrostatic complementarity in pseudoreceptor modeling based on drug molecule crystal structures: the case of loxistatin acid (E64c). *New Journal of Chemistry*, **2015**, 39, 1628-1633	3.6	10
56	New Cysteine Protease Inhibitors: Electrophilic (Het)arenes and Unexpected Prodrug Identification for the Protease Rhodesain. *Molecules*, **2020**, 25,	4.8	9
55	Ensemble-based ADME-Tox profiling and virtual screening for the discovery of new inhibitors of the Leishmania mexicana cysteine protease CPB2.8ΔCTE. *Chemical Biology and Drug Design*, **2018**, 91, 597-604	2.9	9
54	Can Experimental Electron-Density Studies be Used as a Tool to Predict Biologically Relevant Properties of Low-Molecular Weight Enzyme Ligands?. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2013**, 639, 1905-1921	1.3	9
53	Natural Product Repertoire of the Genus. *Marine Drugs*, **2018**, 17,	6	9

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51	Fly versus man: evolutionary impairment of nucleolar targeting affects the degradome of DrosophilaTs Taspase1. *FASEB Journal*, **2015**, 29, 1973-85	0.9	8
50	Identification of the protease inhibitor miraziridine A in the Red sea sponge Theonella swinhoei. *Pharmacognosy Research (discontinued)*, **2012**, 4, 63-6	0.7	8
49	Synthesis, solution behaviour and potential anticancer activity of new trinuclear organometallic palladium(II) complex of {S}-1-phenylethyl dithiooxamide: Comparison with the trinuclear heterobimetallic platinum(II) analogue. *Polyhedron*, **2019**, 164, 195-201	2.7	7
48	Peptidyl Vinyl Ketone Irreversible Inhibitors of Rhodesain: Modifications of the P2 Fragment. *ChemMedChem*, **2020**, 15, 1552-1561	3.7	7
47	New aziridine-based inhibitors of cathepsin L-like cysteine proteases with selectivity for the Leishmania cysteine protease LmCPB2.8. *European Journal of Medicinal Chemistry*, **2018**, 156, 587-597	6.8	7
46	Drug combination studies of curcumin and genistein against rhodesain of. *Natural Product Research* , **2019**, 33, 3577-3581	2.3	7
45	Development of antitrypanosomal and antiplasmodial nonpeptidic cysteine protease inhibitors based on N-protected-guanidino-furan and -pyrrole building blocks. *ChemMedChem*, **2011**, 6, 1581-6	3.7	7
44	Synthesis and Pharmacological Evaluation of [C]4-Methoxy--[2-(thiophen-2-yl)imidazo[1,2-]pyridin-3-yl]benzamide as a Brain Penetrant PET Ligand Selective for the Subunit-Containing Aminobutyric Acid Type A Receptors. *ACS Omega*, **2019**, 4, 8846-8851	3.9	6
43	Anti-trypanosomal activities and structural chemical properties of selected compound classes. *Parasitology Research*, **2015**, 114, 501-12	2.4	6
42	Synthesis and evaluation of non-peptidic cysteine protease inhibitors of P. falciparum derived from etacrynic acid. *Molecules*, **2008**, 14, 19-35	4.8	6
41	New non-peptidic inhibitors of papain derived from etacrynic acid. *Medicinal Chemistry*, **2005**, 1, 361-70	1.8	6
40	Novel Opportunities for Cathepsin S Inhibitors in Cancer Immunotherapy by Nanocarrier-Mediated Delivery. *Cells*, **2020**, 9,	7.9	6
39	Similarities and Differences between Crystal and Enzyme Environmental Effects on the Electron Density of Drug Molecules. *Chemistry - A European Journal*, **2021**, 27, 3407-3419	4.8	6
38	SAR of novel benzothiazoles targeting an allosteric pocket of DENV and ZIKV NS2B/NS3 proteases. *Bioorganic and Medicinal Chemistry*, **2021**, 47, 116392	3.4	6
37	Comparison of the separation of aziridine isomers applying heptakis(2,3-di-O-methyl-6-sulfato)beta-CD and heptakis(2,3-di-O-acetyl-6-sulfato)beta-CD in aqueous and nonaqueous systems. *Electrophoresis*, **2005**, 26, 3897-903	3.6	5
36	Structural Determinants for the Mode of Action of Imidazopyridine DS2 at Containing Aminobutyric Acid Type A Receptors. *Journal of Medicinal Chemistry*, **2021**, 64, 4730-4743	8.3	5
35	Approaching an experimental electron density model of the biologically active trans-epoxysuccinyl amide groupSubstituent effects vs. crystal packing. *Journal of Physical Organic Chemistry*, **2017**, 30, e3683	2.1	4

34	Identification of a potential allosteric site of Golgi α-mannosidase II using computer-aided drug design. *PLoS ONE*, **2019**, 14, e0216132	3.7	4
33	Cytotoxicity of Endoperoxides from the Caribbean Sponge Plakortis halichondrioides towards Sensitive and Multidrug-Resistant Leukemia Cells: Acids vs. Esters Activity Evaluation. *Marine Drugs*, **2017**, 15,	6	4
32	Bistacrines as potential antitrypanosomal agents. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 4526-4531	3.4	4
31	Antiproliferative Properties of a Few Auranofin-Related Gold(I) and Silver(I) Complexes in Leukemia Cells and their Interferences with the Ubiquitin Proteasome System. *Molecules*, **2020**, 25,	4.8	4
30	Conformational Dynamics of the Dengue Virus Protease Revealed by Fluorescence Correlation and Single-Molecule FRET Studies. *Journal of Physical Chemistry B*, **2021**, 125, 6837-6846	3.4	4
29	Ruthenium(ii) and palladium(ii) homo- and heterobimetallic complexes: synthesis, crystal structures, theoretical calculations and biological studies. *Dalton Transactions*, **2019**, 48, 15869-15887	4.3	4
28	Eliciting callus culture for production of hepatoprotective flavonoids and phenolics from (D. Don Endl). *Natural Product Research*, **2020**, 34, 3125-3129	2.3	4
27	BANDOT: BIOFactor Analysis for Drug Design and Structural Biology. *Molecular Informatics*, **2021**, 40, e2000184	3.4	4
26	Drug Synergism: Studies of Combination of RK-52 and Curcumin against Rhodesain of. *ACS Medicinal Chemistry Letters*, **2020**, 11, 806-810	4.3	3
25	Inducible APOBEC3G-Vif double stable cell line as a high-throughput screening platform to identify antiviral compounds. *Antimicrobial Agents and Chemotherapy*, **2010**, 54, 78-87	5.9	3
24	E/Z Diastereoselective Enzymatic Hydrolysis of Esters and Diesters. *Angewandte Chemie International Edition in English*, **1993**, 32, 572-574		3
23	Warhead Reactivity Limits the Speed of Inhibition of the Cysteine Protease Rhodesain. *ACS Chemical Biology*, **2021**, 16, 661-670	4.9	3
22	Synthesis, X-ray Structure Determination, and Comprehensive Photochemical Characterization of (Trifluoromethyl)diazirine-Containing TRPML1 Ligands. *Journal of Organic Chemistry*, **2021**, 86, 6169-6183	4.2	3
21	Development of Novel Benzodiazepine-Based Peptidomimetics as Inhibitors of Rhodesain from Trypanosoma brucei rhodesiense. *ChemMedChem*, **2020**, 15, 995-1001	3.7	3
20	Structure, interdomain dynamics, and pH-dependent autoactivation of pro-rhodesain, the main lysosomal cysteine protease from African trypanosomes. *Journal of Biological Chemistry*, **2021**, 296, 100565	5.4	3
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17	Nostotrebin 6 Related Cyclopentenediones and δ-Lactones with Broad Activity Spectrum Isolated from the Cultivation Medium of the Cyanobacterium sp. CBT1153. *Journal of Natural Products*, **2020**, 83, 392-400	4.9	2

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16	Metal Ions as Co-Inhibitors of Serine Proteases: A New Approach in the Search for Specific High-Affinity Ligands. *Angewandte Chemie - International Edition*, **1998**, 37, 1830-1832	16.4	2
15	Evaluation of curcumin irreversibility. *Natural Product Research*, **2020**, 34, 3159-3162	2.3	2
14	Chemical biology and medicinal chemistry of RNA methyltransferases.. *Nucleic Acids Research*, **2022** ,	20.1	2
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12	Thiirancarboxamides as inhibitors of papain. *Archiv Der Pharmazie*, **2004**, 337, 90-5	4.3	1
11	2-Sulfonylpyrimidines as Privileged Warheads for the Development of Sortase A Inhibitors.. *Frontiers in Molecular Biosciences*, **2021**, 8, 804970	5.6	1
10	The discovery of novel antitrypanosomal 4-phenyl-6-(pyridin-3-yl)pyrimidines. *European Journal of Medicinal Chemistry*, **2021**, 209, 112871	6.8	1
9	The Medicinal Chemistry of Zika Virus **2021**, 233-295		1
8	Investigation of the influence of chirality and halogen atoms on the anticancer activity of enantiopure palladium(ii) complexes derived from chiral amino-alcohol Schiff bases and 2-picolylamine. *New Journal of Chemistry*, **2022**, 46, 6470-6483	3.6	1
7	A low-cost 3D-printable differential scanning fluorometer for protein and RNA melting experiments.. *HardwareX*, **2022**, 11, e00256	2.7	0
6	GNPS-guided discovery of xylacremolide C and D, evaluation of their putative biosynthetic origin and bioactivity studies of xylacremolide A and B. *RSC Advances*, **2021**, 11, 18748-18756	3.7	0
5	Applicability of a single-use bioreactor compared to a glass bioreactor for the fermentation of filamentous fungi and evaluation of the reproducibility of growth in pellet form. *Engineering in Life Sciences*, **2021**, 21, 324-339	3.4	0
4	Development of novel dipeptide nitriles as inhibitors of rhodesain of Trypanosoma brucei rhodesiense.. *European Journal of Medicinal Chemistry*, **2022**, 236, 114328	6.8	0
3	New peptidomimetic rhodesain inhibitors with improved selectivity towards human cathepsins. *European Journal of Medicinal Chemistry*, **2022**, 114460	6.8	0
2	Metallionen als Coinhibitoren von Serin-Proteasen: ein neuer Ansatz bei der Suche nach hochaffinen und spezifischen Liganden. *Angewandte Chemie*, **1998**, 110, 1930-1932	3.6	
1	Synthesis of peptides with aziridine-2,3-dicarboxylic acid as an amino acid equivalent building block **1999**, 634-636		