Stephan A Sieber

List of Publications by Year
in descending order

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130	4,767	101543	128289
papers	citations	36	60
		h-index	g-index

143	143	143	5564
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Substrate Profiling of Mitochondrial Caseinolytic Protease P via a Siteâ€Specific Photocrosslinking Approach. Angewandte Chemie - International Edition, 2022, 61, .	13.8	15
2	Tailored Pyridoxal Probes Unravel Novel Cofactorâ€Dependent Targets and Antibiotic Hits in Critical Bacterial Pathogens. Angewandte Chemie - International Edition, 2022, 61, .	13.8	14
3	Eukaryotic catecholamine hormones influence the chemotactic control of Vibrio campbellii by binding to the coupling protein CheW. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2118227119.	7.1	6
4	Functionalised Cofactor Mimics for Interactome Discovery and Beyond. Angewandte Chemie - International Edition, 2022, , .	13.8	10
5	Broadâ€range metalloprotease profiling in plants uncovers immunity provided by defenceâ€related metalloenzyme. New Phytologist, 2022, 235, 1287-1301.	7.3	3
6	Synthetic postâ€translational modifications of elongation factor P using the ligase EpmA. FEBS Journal, 2021, 288, 663-677.	4.7	5
7	Global Inventory of ClpP- and ClpX-Regulated Proteins in Staphylococcus aureus. Journal of Proteome Research, 2021, 20, 867-879.	3.7	21
8	Broad Spectrum Antibiotic Xanthocillin X Effectively Kills Acinetobacter baumannii via Dysregulation of Heme Biosynthesis. ACS Central Science, 2021, 7, 488-498.	11.3	16
9	A tailored phosphoaspartate probe unravels CprR as a response regulator in Pseudomonas aeruginosa interkingdom signaling. Chemical Science, 2021, 12, 4763-4770.	7.4	10
10	Chemical Phosphoproteomics Sheds New Light on the Targets and Modes of Action of AKT Inhibitors. ACS Chemical Biology, 2021, 16, 631-641.	3.4	21
11	Small molecule inhibitors of the mitochondrial ClpXP protease possess cytostatic potential and re-sensitize chemo-resistant cancers. Scientific Reports, 2021, 11, 11185.	3.3	1
12	Fluorescent palladium(<scp>ii</scp>) and platinum(<scp>ii</scp>) NHC/1,2,3-triazole complexes: antiproliferative activity and selectivity against cancer cells. Dalton Transactions, 2021, 50, 2158-2166.	3.3	9
13	Electrophilic reactivities of cyclic enones and Î±,Î²-unsaturated lactones. Chemical Science, 2021, 12, 4850-4865.	7.4	38
14	Extracellular LGALS3BP regulates neural progenitor position and relates to human cortical complexity. Nature Communications, 2021, 12, 6298.	12.8	21
15	Inactivity of Peptidase ClpP Causes Primary Accumulation of Mitochondrial Disaggregase ClpX with Its Interacting Nucleoid Proteins, and of mtDNA. Cells, 2021, 10, 3354.	4.1	4
16	Total synthesis and mechanism of action of the antibiotic armeniaspirol A. Chemical Science, 2021, 12, 16023-16034.	7.4	5
17	Der zytotoxische Naturstoff Vioprolidâ€…A interagiert mit dem fÃ¼r die Ribosomenâ€Biogenese essentiellen nukleolÃren Protein 14. Angewandte Chemie, 2020, 132, 1611-1617.	2.0	4
18	The Cytotoxic Natural Product Vioprolideâ€…A Targets Nucleolar Protein 14, Which Is Essential for Ribosome Biogenesis. Angewandte Chemie - International Edition, 2020, 59, 1595-1600.	13.8	37

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19	Acyldepsipeptide Probes Facilitate Specific Detection of Caseinolytic Proteaseâ€...P Independent of Its Oligomeric and Activity State. ChemBioChem, 2020, 21, 235-240.	2.6	5
20	Biochemical and Proteomic Studies of Human Pyridoxal 5â€²-Phosphate-Binding Protein (PLPBP). ACS Chemical Biology, 2020, 15, 254-261.	3.4	11
21	Repurposing human kinase inhibitors to create an antibiotic active against drug-resistant Staphylococcus aureus, persisters and biofilms. Nature Chemistry, 2020, 12, 145-158.	13.6	78
22	Totalsynthese des cyclischen Depsipeptids Vioprolidâ€...D Ã¼ber sein (Z)â€Diastereomer. Angewandte Chemie, 2020, 132, 12456-12460.	2.0	4
23	Tailored Cofactor Traps for the in Situ Detection of Hemithioacetal-Forming Pyridoxal Kinases. ACS Chemical Biology, 2020, 15, 3227-3234.	3.4	2
24	MS-Based in Situ Proteomics Reveals AMPylation of Host Proteins during Bacterial Infection. ACS Infectious Diseases, 2020, 6, 3277-3289.	3.8	7
25	Tranylcypromine specificity for monoamine oxidase is limited by promiscuous protein labelling and lysosomal trapping. RSC Chemical Biology, 2020, 1, 209-213.	4.1	2
26	Comparative Target Analysis of Chlorinated Biphenyl Antimicrobials Highlights MenG as a Molecular Target of Triclocarban. Applied and Environmental Microbiology, 2020, 86, .	3.1	7
27	From Young to Old: AMPylation Hits the Brain. Cell Chemical Biology, 2020, 27, 773-779.	5.2	15
28	Structure and Function of an Elongation Factor P Subfamily in Actinobacteria. Cell Reports, 2020, 30, 4332-4342.e5.	6.4	11
29	A Pronucleotide Probe for Liveâ€Cell Imaging of Protein AMPylation. ChemBioChem, 2020, 21, 1285-1287.	2.6	21
30	Covalent Mucin Coatings Form Stable Antiâ€Biofouling Layers on a Broad Range of Medical Polymer Materials. Advanced Materials Interfaces, 2020, 7, 1902069.	3.7	43
31	Total Synthesis of the Cyclic Depsipeptide Vioprolideâ€...D via its (Z)â€Diastereoisomer. Angewandte Chemie - International Edition, 2020, 59, 12357-12361.	13.8	10
32	Degrasyn exhibits antibiotic activity against multi-resistant Staphylococcus aureus by modifying several essential cysteines. Chemical Communications, 2020, 56, 2929-2932.	4.1	8
33	FICD activity and AMPylation remodelling modulate human neurogenesis. Nature Communications, 2020, 11, 517.	12.8	39
34	<scp>ECE</scp>2 regulates neurogenesis and neuronal migration during human cortical development. EMBO Reports, 2020, 21, e48204.	4.5	40
35	A Chemical Proteomic Analysis of Illudinâ€Interacting Proteins. Chemistry - A European Journal, 2019, 25, 12644-12651.	3.3	7
36	Hydantoin analogs inhibit the fully assembled ClpXP protease without affecting the individual peptidase and chaperone domains. Organic and Biomolecular Chemistry, 2019, 17, 7124-7127.	2.8	5

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37	In Vesiculo Synthesis of Peptide Membrane Precursors for Autonomous Vesicle Growth. Journal of Visualized Experiments, 2019, , .	0.3	1
38	Customizing Functionalized Cofactor Mimics to Study the Human Pyridoxal 5â€²-Phosphate-Binding Proteome. Cell Chemical Biology, 2019, 26, 1461-1468.e7.	5.2	13
39	Cryo-EM structure of the ClpXP protein degradation machinery. Nature Structural and Molecular Biology, 2019, 26, 946-954.	8.2	68
40	Topographical alterations render bacterial biofilms susceptible to chemical and mechanical stress. Biomaterials Science, 2019, 7, 220-232.	5.4	25
41	Neocarzilin A Is a Potent Inhibitor of Cancer Cell Motility Targeting VAT-1 Controlled Pathways. ACS Central Science, 2019, 5, 1170-1178.	11.3	12
42	Blockade der ClpXPâ€vermittelten Proteolyse mit maÃŸgeschneiderten Peptidâ€Phenylestern durch den ungewÃ¶hnlichen Zerfall in eine Heptamerâ€Hexamerâ€Anordnung. Angewandte Chemie, 2019, 131, 7201-7206.	2.0	0
43	Tailored Peptide Phenyl Esters Block ClpXP Proteolysis by an Unusual Breakdown into a Heptamerâ€“Hexamer Assembly. Angewandte Chemie - International Edition, 2019, 58, 7127-7132.	13.8	10
44	Profiling withanolide A for therapeutic targets in neurodegenerative diseases. Bioorganic and Medicinal Chemistry, 2019, 27, 2508-2520.	3.0	11
45	The Natural Product Elegaphenone Potentiates Antibiotic Effects against Pseudomonas aeruginosa. Angewandte Chemie - International Edition, 2019, 58, 8581-8584.	13.8	13
46	Der Naturstoff Elegaphenon verstÃ¤rkt antibiotische Effekte gegen Pseudomonas aeruginosa. Angewandte Chemie, 2019, 131, 8670-8674.	2.0	2
47	Polyamide/PEG Blends as Biocompatible Biomaterials for the Convenient Regulation of Cell Adhesion and Growth. Macromolecular Rapid Communications, 2019, 40, e1900091.	3.9	33
48	A network of chaperones prevents and detects failures in membrane protein lipid bilayer integration. Nature Communications, 2019, 10, 672.	12.8	33
49	The Heat Shock Response in Yeast Maintains Protein Homeostasis by Chaperoning and Replenishing Proteins. Cell Reports, 2019, 29, 4593-4607.e8.	6.4	67
50	Chemical Cross-Linking Enables Drafting ClpXP Proximity Maps and Taking Snapshots of In Situ Interaction Networks. Cell Chemical Biology, 2019, 26, 48-59.e7.	5.2	31
51	Bifunctional Duocarmycin Analogues as Inhibitors of Protein Tyrosine Kinases. Journal of Natural Products, 2019, 82, 16-26.	3.0	1
52	Targeting the endoplasmic reticulum-mitochondria interface sensitizes leukemia cells to cytostatics. Haematologica, 2019, 104, 546-555.	3.5	10
53	Dual Inhibitor of Staphylococcus aureus Virulence and Biofilm Attenuates Expression of Major Toxins and Adhesins. Biochemistry, 2018, 57, 1814-1820.	2.5	10
54	Promysalin Elicits Species-Selective Inhibition of Pseudomonas aeruginosa by Targeting Succinate Dehydrogenase. Journal of the American Chemical Society, 2018, 140, 1774-1782.	13.7	63

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55	An Antibacterial Î²â€Lactone Kills Mycobacterium tuberculosis by Disrupting Mycolic Acid Biosynthesis. Angewandte Chemie - International Edition, 2018, 57, 348-353.	13.8	55
56	Ein antibakterielles Î²â€Lacton bekÃmpft Mycobacterium tuberculosis durch Infiltration der MykolsÃurebiosynthese. Angewandte Chemie, 2018, 130, 354-359.	2.0	3
57	Ãœber bisherige Denkweisen hinaus â€“ neue Wirkstoffe zur Ãœberwindung der Antibiotikaâ€Krise. Angewandte Chemie, 2018, 130, 14642-14682.	2.0	18
58	Mining the cellular inventory of pyridoxal phosphate-dependent enzymes with functionalized cofactor mimics. Nature Chemistry, 2018, 10, 1234-1245.	13.6	51
59	Towards synthetic cells using peptide-based reaction compartments. Nature Communications, 2018, 9, 3862.	12.8	75
60	Thinking Outside the Boxâ€"Novel Antibacterials To Tackle the Resistance Crisis. Angewandte Chemie - International Edition, 2018, 57, 14440-14475.	13.8	129
61	Transcriptomic Profiling Suggests That Promysalin Alters the Metabolic Flux, Motility, and Iron Regulation in Pseudomonas putida KT2440. ACS Infectious Diseases, 2018, 4, 1179-1187.	3.8	6
62	Design and synthesis of tailored human caseinolytic protease P inhibitors. Chemical Communications, 2018, 54, 9833-9836.	4.1	21
63	Chemical Probe To Monitor the Parkinsonism-Associated Protein DJ-1 in Live Cells. ACS Chemical Biology, 2018, 13, 2016-2019.	3.4	15
64	Selektive Aktivierung der humanen caseinolytischen Proteaseâ€…P (ClpP). Angewandte Chemie, 2018, 130, 14811-14816.	2.0	3
65	Selective Activation of Human Caseinolytic Proteaseâ€…P (ClpP). Angewandte Chemie - International Edition, 2018, 57, 14602-14607.	13.8	34
66	A strategy for dual inhibition of the proteasome and fatty acid synthase with belactosin C-orlistat hybrids. Bioorganic and Medicinal Chemistry, 2017, 25, 2901-2916.	3.0	14
67	Influence of wing-tip substituents and reaction conditions on the structure, properties and cytotoxicity of Ag(<scp>i</scp>)â€“ and Au(<scp>i</scp>)â€“bis(NHC) complexes. Dalton Transactions, 2017, 46, 2722-2735.	3.3	33
68	The microstructure and micromechanics of the tendonâ€“bone insertion. Nature Materials, 2017, 16, 664-670.	27.5	250
69	Insights into ClpXP proteolysis: heterooligomerization and partial deactivation enhance chaperone affinity and substrate turnover in Listeria monocytogenes. Chemical Science, 2017, 8, 1592-1600.	7.4	24
70	Quantitative Map of Î²-Lactone-Induced Virulence Regulation. Journal of Proteome Research, 2017, 16, 1180-1192.	3.7	25
71	Surface topology affects wetting behavior of Bacillus subtilis biofilms. Npj Biofilms and Microbiomes, 2017, 3, 11.	6.4	55
72	Chemical Probes Unravel an Antimicrobial Defense Response Triggered by Binding of the Human Opioid Dynorphin to a Bacterial Sensor Kinase. Journal of the American Chemical Society, 2017, 139, 6152-6159.	13.7	32

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73	Eine Gesamtproteomâ€basierte Auflistung der Hintergrundbinder von Photovernetzern. Angewandte Chemie, 2017, 129, 1417-1422.	2.0	21
74	A Whole Proteome Inventory of Background Photocrosslinker Binding. Angewandte Chemie - International Edition, 2017, 56, 1396-1401.	13.8	87
75	A chemical compound inhibiting the Aha1â€“Hsp90 chaperone complex. Journal of Biological Chemistry, 2017, 292, 17073-17083.	3.4	37
76	Verringerung der Virulenz von multiresistentem Staphylococcus aureus mithilfe eines chemischen Disruptors des ClpXâ€Chaperonâ€Komplexes. Angewandte Chemie, 2017, 129, 15952-15957.	2.0	2
77	A Chemical Disruptor of the ClpX Chaperone Complex Attenuates the Virulence of Multidrugâ€Resistant Staphylococcus aureus. Angewandte Chemie - International Edition, 2017, 56, 15746-15750.	13.8	34
78	An amino acid domino effect orchestrates ClpP's conformational states. Current Opinion in Chemical Biology, 2017, 40, 102-110.	6.1	20
79	Quantitative chemoproteomic profiling reveals multiple target interactions of spongiolactone derivatives in leukemia cells. Chemical Communications, 2017, 53, 12818-12821.	4.1	10
80	Synthesis of ramariolide natural products and discovery of their targets in mycobacteria. Chemical Communications, 2017, 53, 107-110.	4.1	19
81	Activity-Based Protein Profiling in Bacteria. Methods in Molecular Biology, 2017, 1491, 57-74.	0.9	8
82	Azidobupramine, an Antidepressant-Derived Bifunctional Neurotransmitter Transporter Ligand Allowing Covalent Labeling and Attachment of Fluorophores. PLoS ONE, 2016, 11, e0148608.	2.5	5
83	Frontispiece: An Aromatic Hydroxyamide Attenuates Multiresistant Staphylococcus aureus Toxin Expression. Chemistry - A European Journal, 2016, 22, .	3.3	0
84	Fimbrolide Natural Products Disrupt Bioluminescence of Vibrio By Targeting Autoinducer Biosynthesis and Luciferase Activity. Angewandte Chemie - International Edition, 2016, 55, 1187-1191.	13.8	16
85	Chemical proteomics approaches for identifying the cellular targets of natural products. Natural Product Reports, 2016, 33, 681-708.	10.3	295
86	Mechanistic analysis of aliphatic Î²-lactones in Vibrio harveyi reveals a quorum sensing independent mode of action. Chemical Communications, 2016, 52, 11971-11974.	4.1	2
87	Self-Assembled Palladium and Platinum Coordination Cages: Photophysical Studies and Anticancer Activity. European Journal of Inorganic Chemistry, 2016, 2016, 5189-5196.	2.0	40
88	Self-Assembled Palladium and Platinum Coordination Cages: Photophysical Studies and Anticancer Activity. European Journal of Inorganic Chemistry, 2016, 2016, 5181-5181.	2.0	6
89	Naturalâ€Productâ€Inspired Aminoepoxybenzoquinones Kill Members of the Gramâ€Negative Pathogen Salmonella by Attenuating Cellular Stress Response. Angewandte Chemie - International Edition, 2016, 55, 14852-14857.	13.8	14
90	Making a Long Journey Short: Alkyne Functionalization of Natural Product Scaffolds. Chemistry - A European Journal, 2016, 22, 4666-4678.	3.3	50

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91	NatÃ¼rliche Fimbrolide inhibieren Autoinduktorbiosynthese und LuziferaseaktivitÃt und unterdrÃ¼cken damit die Biolumineszenz in Vibrio. Angewandte Chemie, 2016, 128, 1203-1207.	2.0	7
92	An Aromatic Hydroxyamide Attenuates Multiresistant Staphylococcus aureus Toxin Expression. Chemistry - A European Journal, 2016, 22, 1622-1630.	3.3	6
93	Barrel-shaped ClpP Proteases Display Attenuated Cleavage Specificities. ACS Chemical Biology, 2016, 11, 389-399.	3.4	35
94	Targeting the ER-Mitochondrial Interface of Cell Death Sensitizes Leukemia Cells Towards Cytostatics. Blood, 2016, 128, 2319-2319.	1.4	7
95	Structural, Biochemical, and Computational Studies Reveal the Mechanism of Selective Aldehyde Dehydrogenase 1A1 Inhibition by Cytotoxic Duocarmycin Analogues. Angewandte Chemie - International Edition, 2015, 54, 13550-13554.	13.8	25
96	Reversible Inhibitors Arrest ClpP in a Defined Conformational State that Can Be Revoked by ClpX Association. Angewandte Chemie - International Edition, 2015, 54, 15892-15896.	13.8	42
97	Structure and Mechanism of the Caseinolytic Protease ClpP1/2 Heterocomplex from Listeria monocytogenes. Angewandte Chemie - International Edition, 2015, 54, 3598-3602.	13.8	32
98	A Mass Spectrometry Platform for a Streamlined Investigation of Proteasome Integrity, Posttranslational Modifications, and Inhibitor Binding. Chemistry and Biology, 2015, 22, 404-411.	6.0	14
99	Phenyl Esters Are Potent Inhibitors of Caseinolytic Protease P and Reveal a Stereogenic Switch for Deoligomerization. Journal of the American Chemical Society, 2015, 137, 8475-8483.	13.7	89
100	AAA+ chaperones and acyldepsipeptides activate the ClpP protease via conformational control. Nature Communications, 2015, 6, 6320.	12.8	110
101	Alkynol natural products target ALDH2 in cancer cells by irreversible binding to the active site. Chemical Communications, 2015, 51, 15784-15787.	4.1	42
102	Effective GTP-Replacing FtsZ Inhibitors and Antibacterial Mechanism of Action. ACS Chemical Biology, 2015, 10, 834-843.	3.4	25
103	Synthesis of (Â±)â€Spongiolactone Enabling Discovery of a More Potent Derivative. Chemistry - A European Journal, 2015, 21, 1425-1428.	3.3	20
104	Knockout for malaria. Nature Chemistry, 2014, 6, 93-94.	13.6	0
105	Disruption of Oligomerization and Dehydroalanine Formation as Mechanisms for ClpP Protease Inhibition. Journal of the American Chemical Society, 2014, 136, 1360-1366.	13.7	47
106	Î±-Methylene-Î³-butyrolactones attenuate Staphylococcus aureus virulence by inhibition of transcriptional regulation. Chemical Science, 2014, 5, 1158.	7.4	27
107	A Subfamily of Bacterial Ribokinases Utilizes a Hemithioacetal for Pyridoxal Phosphate Salvage. Journal of the American Chemical Society, 2014, 136, 4992-4999.	13.7	21
108	A Î²â€Lactoneâ€Based Antivirulence Drug Ameliorates Staphylococcus aureus Skin Infections in Mice. ChemMedChem, 2014, 9, 710-713.	3.2	35

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109	The Mechanism of Caseinolytic Protease (ClpP) Inhibition. Angewandte Chemie - International Edition, 2013, 52, 3009-3014.	13.8	53
110	Structural and functional insights into caseinolytic proteases reveal an unprecedented regulation principle of their catalytic triad. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11302-11307.	7.1	60
111	Insights into Structural Network Responsible for Oligomerization and Activity of Bacterial Virulence Regulator Caseinolytic Protease P (ClpP) Protein. Journal of Biological Chemistry, 2012, 287, 9484-9494.	3.4	62
112	Pretubulysin derived probes as novel tools for monitoring the microtubule network via activity-based protein profiling and fluorescence microscopy. Molecular BioSystems, 2012, 8, 2067.	2.9	48
113	Electrophilic natural products and their biological targets. Natural Product Reports, 2012, 29, 659.	10.3	232
114	Duocarmycin Analogues Target Aldehyde Dehydrogenaseâ€...1 in Lung Cancer Cells. Angewandte Chemie - International Edition, 2012, 51, 2874-2877.	13.8	72
115	Activityâ€Based Probes for Studying the Activity of Flavinâ€Dependent Oxidases and for the Protein Target Profiling of Monoamine Oxidase Inhibitors. Angewandte Chemie - International Edition, 2012, 51, 7035-7040.	13.8	63
116	Rugulactone and its Analogues Exert Antibacterial Effects through Multiple Mechanisms Including Inhibition of Thiamine Biosynthesis. ChemBioChem, 2012, 13, 1439-1446.	2.6	28
117	Development and characterization of improved Î²-lactone-based anti-virulence drugs targeting ClpP. Bioorganic and Medicinal Chemistry, 2012, 20, 583-591.	3.0	47
118	Protein Reactivity of Natural Product-Derived Î³-Butyrolactones. Biochemistry, 2011, 50, 910-916.	2.5	26
119	A Conformational Switch Underlies ClpP Protease Function. Angewandte Chemie - International Edition, 2011, 50, 5749-5752.	13.8	69
120	Vibralactone as a Tool to Study the Activity and Structure of the ClpP1P2 Complex from Listeria monocytogenes. Angewandte Chemie - International Edition, 2011, 50, 11001-11004.	13.8	80
121	A cyanobacterial serine protease of Plasmodium falciparum is targeted to the apicoplast and plays an important role in its growth and development. Molecular Microbiology, 2010, 77, 873-890.	2.5	48
122	Î²â€Lactones as Privileged Structures for the Activeâ€Site Labeling of Versatile Bacterial Enzyme Classes. Angewandte Chemie - International Edition, 2008, 47, 4600-4603.	13.8	168
123	Î²-Lactones as Specific Inhibitors of ClpP Attenuate the Production of Extracellular Virulence Factors of Staphylococcus aureus. Journal of the American Chemical Society, 2008, 130, 14400-14401.	13.7	177
124	Analytical platforms for activity-based protein profiling ? exploiting the versatility of chemistry for functional proteomics. Chemical Communications, 2006, , 2311.	4.1	64
125	Proteomic profiling of metalloprotease activities with cocktails of active-site probes. , 2006, 2, 274-281.		224
126	Microarray Platform for Profiling Enzyme Activities in Complex Proteomes. Journal of the American Chemical Society, 2004, 126, 15640-15641.	13.7	61

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127	Substrate profiling of mitochondrial caseinolytic protease P via a siteâ€specific photocrosslinking approach. Angewandte Chemie, 0, , .	2.0	2
128	Tailored Pyridoxal Probes Unravel Novel Cofactorâ€Dependent Targets and Antibiotic Hits in Critical Bacterial Pathogens. Angewandte Chemie, 0, , .	2.0	2
129	Functionalised Cofactor Mimics for Interactome Discovery and Beyond. Angewandte Chemie, 0, , .	2.0	2
130	Listeria monocytogenes utilizes the ClpP1/2 proteolytic machinery for fine-tuned substrate degradation at elevated temperatures. RSC Chemical Biology, 0, , .	4.1	2