Herbert Waldmann

List of Publications by Year
in descending order

667	41,599	2538 96	6282 158
papers	citations	h-index	g-index

862	862	862	30930
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Acylation Cycle Regulates Localization and Activity of Palmitoylated Ras Isoforms. Science, 2005, 307, 1746-1752.	6.0	761
2	Fluorogenic probes for live-cell imaging of the cytoskeleton. Nature Methods, 2014, 11, 731-733.	9.0	705
3	Activation of the Raf-MEK-ERK pathway is required for neutrophil extracellular trap formation. Nature Chemical Biology, 2011, 7, 75-77.	3.9	649
4	The Pictetâ€“Spengler Reaction in Nature and in Organic Chemistry. Angewandte Chemie - International Edition, 2011, 50, 8538-8564.	7.2	581
5	Chemical Strategies for Generating Protein Biochips. Angewandte Chemie - International Edition, 2008, 47, 9618-9647.	7.2	551
6	Small molecule inhibition of the KRASâ€“PDEÎ´ interaction impairs oncogenic KRAS signalling. Nature, 2013, 497, 638-642.	13.7	551
7	Charting biologically relevant chemical space: A structural classification of natural products (SCONP). Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17272-17277.	3.3	534
8	Highly enantioselective synthesis and cellular evaluation of spirooxindoles inspired by natural products. Nature Chemistry, 2010, 2, 735-740.	6.6	531
9	Biologyâ€Oriented Synthesis. Angewandte Chemie - International Edition, 2011, 50, 10800-10826.	7.2	438
10	A functional screen implicates microRNA-138-dependent regulation of the depalmitoylation enzyme APT1 in dendritic spine morphogenesis. Nature Cell Biology, 2009, 11, 705-716.	4.6	437
11	Catalytic Enantioselective 1,3-Dipolar Cycloadditions of Azomethine Ylides for Biology-Oriented Synthesis. Accounts of Chemical Research, 2014, 47, 1296-1310.	7.6	418
12	Inhibitors of Protein Tyrosine Phosphatases: Next-Generation Drugs?. Angewandte Chemie - International Edition, 2005, 44, 3814-3839.	7.2	406
13	From Protein Domains to Drug CandidatesÃ¢Â€Â”Natural Products as Guiding Principles in the Design and Synthesis of Compound Libraries. Angewandte Chemie - International Edition, 2002, 41, 2878.	7.2	397
14	The Palmitoylation Machinery Is a Spatially Organizing System for Peripheral Membrane Proteins. Cell, 2010, 141, 458-471.	13.5	393
15	Target Identification for Small Bioactive Molecules: Finding the Needle in the Haystack. Angewandte Chemie - International Edition, 2013, 52, 2744-2792.	7.2	393
16	Small-molecule inhibition of APT1 affects Ras localization and signaling. Nature Chemical Biology, 2010, 6, 449-456.	3.9	353
17	The Scaffold Tree â^’ Visualization of the Scaffold Universe by Hierarchical Scaffold Classification. Journal of Chemical Information and Modeling, 2007, 47, 47-58.	2.5	322
18	Charting, Navigating, and Populating Natural Product Chemical Space for Drug Discovery. Journal of Medicinal Chemistry, 2012, 55, 5989-6001.	2.9	317

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19	Asymmetric Hetero Diels-Alder Reactions. Synthesis, 1994, 1994, 535-551.	1.2	307
20	Discovery of protein phosphatase inhibitor classes by biology-oriented synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10606-10611.	3.3	288
21	General Enantioselective Câ^'H Activation with Efficiently Tunable Cyclopentadienyl Ligands. Angewandte Chemie - International Edition, 2017, 56, 2429-2434.	7.2	287
22	Protecting Group Strategies in Organic Synthesis. Angewandte Chemie International Edition in English, 1996, 35, 2056-2083.	4.4	285
23	New Modalities for Challenging Targets in Drug Discovery. Angewandte Chemie - International Edition, 2017, 56, 10294-10323.	7.2	275
24	Synthesis of Natural Product Inspired Compound Collections. Angewandte Chemie - International Edition, 2009, 48, 3224-3242.	7.2	272
25	Identification of Thiazolidinones Spiroâ€Fused to Indolinâ€2â€ones as Potent and Selective Inhibitors of the Mycobacterium tuberculosis Protein Tyrosine Phosphataseâ€...B. Angewandte Chemie - International Edition, 2010, 49, 5902-5905.	7.2	261
26	Development of Tau Aggregation Inhibitors for Alzheimer's Disease. Angewandte Chemie - International Edition, 2009, 48, 1740-1752.	7.2	249
27	Natural-product-derived fragments for fragment-based ligand discovery. Nature Chemistry, 2013, 5, 21-28.	6.6	249
28	Arl2-GTP and Arl3-GTP regulate a GDI-like transport system for farnesylated cargo. Nature Chemical Biology, 2011, 7, 942-949.	3.9	231
29	Bioactivity-Guided Navigation of Chemical Space. Accounts of Chemical Research, 2010, 43, 1103-1114.	7.6	229
30	Rabbit muscle aldolase as a catalyst in organic synthesis. Journal of the American Chemical Society, 1989, 111, 627-635.	6.6	223
31	Interactive exploration of chemical space with Scaffold Hunter. Nature Chemical Biology, 2009, 5, 581-583.	3.9	207
32	Biology-Oriented Synthesis: Harnessing the Power of Evolution. Journal of the American Chemical Society, 2014, 136, 11853-11859.	6.6	207
33	Enzymic Protecting Group Techniques. Chemical Reviews, 1994, 94, 911-937.	23.0	199
34	The Allyl Group as Mildly and Selectively Removable Carboxy-Protecting Group for the Synthesis of LabileO-Glycopeptides. Angewandte Chemie International Edition in English, 1984, 23, 71-72.	4.4	198
35	Compound library development guided by protein structure similarity clustering and natural product structure. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16721-16726.	3.3	198
36	The Asymmetric Heteroâ€Dielsâ€“Alder Reaction in the Syntheses of Biologically Relevant Compounds. Angewandte Chemie - International Edition, 2014, 53, 11146-11157.	7.2	194

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37	Structure of Rab GDP-Dissociation Inhibitor in Complex with Prenylated YPT1 GTPase. Science, 2003, 302, 646-650.	6.0	193
38	Small-molecule modulation of Ras signaling. Nature Chemical Biology, 2014, 10, 613-622.	3.9	191
39	Staudinger Ligation: A New Immobilization Strategy for the Preparation of Small-Molecule Arrays. Angewandte Chemie - International Edition, 2003, 42, 5830-5834.	7.2	186
40	Photochemical Surface Patterning by the Thiolâ€Ene Reaction. Angewandte Chemie - International Edition, 2008, 47, 4421-4424.	7.2	179
41	Therapeutic intervention based on protein prenylation and associated modifications. Nature Chemical Biology, 2006, 2, 518-528.	3.9	176
42	Bioorganic synthesis of lipid-modified proteins for the study of signal transduction. Nature, 2000, 403, 223-226.	13.7	174
43	A framework for identification of actionable cancer genome dependencies in small cell lung cancer. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17034-17039.	3.3	167
44	(â^')â€Englerinâ€...A is a Potent and Selective Activator of TRPC4 and TRPC5 Calcium Channels. Angewandte Chemie - International Edition, 2015, 54, 3787-3791.	7.2	161
45	Analysis of the eukaryotic prenylome by isoprenoid affinity tagging. Nature Chemical Biology, 2009, 5, 227-235.	3.9	160
46	Rasâ€"A Molecular Switch Involved in Tumor Formation. Angewandte Chemie - International Edition, 2000, 39, 4192-4214.	7.2	158
47	Bioorthogonal Chemistry for Site-Specific Labeling and Surface Immobilization of Proteins. Accounts of Chemical Research, 2011, 44, 762-773.	7.6	156
48	Biology-inspired synthesis of compound libraries. Cellular and Molecular Life Sciences, 2008, 65, 1186-1201.	2.4	150
49	Diels-Alder Ligation and Surface Immobilization of Proteins. Angewandte Chemie - International Edition, 2006, 45, 296-301.	7.2	149
50	Membrane-Mediated Induction and Sorting of K-Ras Microdomain Signaling Platforms. Journal of the American Chemical Society, 2011, 133, 880-887.	6.6	147
51	Rhodanineâ€Based Tau Aggregation Inhibitors in Cell Models of Tauopathy. Angewandte Chemie - International Edition, 2007, 46, 9215-9219.	7.2	145
52	The therapeutic potential of phosphatase inhibitors. Current Opinion in Chemical Biology, 2009, 13, 272-283.	2.8	144
53	Protein structure similarity clustering and natural product structure as guiding principles in drug discoveryâ^†. Drug Discovery Today, 2005, 10, 471-483.	3.2	143
54	Lipidated Ras and Rab Peptides and Proteinsâ€"Synthesis, Structure, and Function. Angewandte Chemie - International Edition, 2006, 45, 6622-6646.	7.2	137

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55	Identification of pyrazolopyridazinones as PDEÎ´ inhibitors. Nature Communications, 2016, 7, 11360.	5.8	137
56	Enzymatic Protecting Group Techniques. Chemical Reviews, 2001, 101, 3367-3396.	23.0	136
57	Site-Selective Protein Immobilization by Staudinger Ligation. Angewandte Chemie - International Edition, 2006, 45, 1408-1412.	7.2	136
58	Organic Synthesis and Biological Signal Transduction. Angewandte Chemie - International Edition, 1998, 37, 688-749.	7.2	135
59	Principle and design of pseudo-natural products. Nature Chemistry, 2020, 12, 227-235.	6.6	134
60	Allyl esters as carboxy protecting groups in the synthesis of O-glycopeptides. Journal of Organic Chemistry, 1989, 54, 751-756.	1.7	133
61	N-Ras Forms Dimers at POPC Membranes. Biophysical Journal, 2012, 103, 1585-1593.	0.2	133
62	Solid-Phase Synthesis of Dysidiolide-Derived Protein Phosphatase Inhibitors. Journal of the American Chemical Society, 2002, 124, 13171-13178.	6.6	131
63	Natural Products Are Biologically Validated Starting Points in Structural Space for Compound Library Development: Solid-Phase Synthesis of Dysidiolide-Derived Phosphatase Inhibitors This research was supported by the Fonds der Chemischen Industrie and the Bayer AG.. Angewandte Chemie - International Edition, 2002, 41, 307.	7.2	131
64	S-Acylation and Plasma Membrane Targeting of the Farnesylated Carboxyl-Terminal Peptide of N-ras in Mammalian Fibroblasts. Biochemistry, 1997, 36, 13102-13109.	1.2	129
65	Bioactivity-guided mapping and navigation of chemical space. Nature Chemical Biology, 2009, 5, 585-592.	3.9	129
66	Asymmetric tandem Mannich-Michael reactions of amino acid ester imines with Danishefsky's diene. Journal of Organic Chemistry, 1992, 57, 4444-4451.	1.7	127
67	3-Substituted indolizine-1-carbonitrile derivatives as phosphatase inhibitors. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 59-63.	1.0	127
68	Von ProteindomÃƒÂnen zu Wirkstoffkandidaten Ã¢Â€Â“ Naturstoffe als Leitstrukturen fÃƒÂ¼r das Design und die Synthese von Substanzbibliotheken. Angewandte Chemie, 2002, 114, 3002.	1.6	126
69	Visualizing Association of N-Ras in Lipid Microdomains:Â Influence of Domain Structure and Interfacial Adsorption. Journal of the American Chemical Society, 2006, 128, 192-201.	6.6	125
70	Membrane targeting mechanism of Rab GTPases elucidated by semisynthetic protein probes. Nature Chemical Biology, 2010, 6, 534-540.	3.9	119
71	Amino Acid Esters: Versatile Chiral Auxiliary Groups for the Asymmetric Synthesis of Nitrogen Heterocycles. Synlett, 1995, 1995, 133-141.	1.0	118
72	Impairment of prostate cancer cell growth by a selective and reversible lysineâ€specific demethylase 1 inhibitor. International Journal of Cancer, 2012, 131, 2704-2709.	2.3	118

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73	Total Synthesis and Biological Evaluation of the Nakijiquinones. Journal of the American Chemical Society, 2001, 123, 11586-11593.	6.6	117
74	General Enantioselective Câ^'H Activation with Efficiently Tunable Cyclopentadienyl Ligands. Angewandte Chemie, 2017, 129, 2469-2474.	1.6	117
75	Structure of Rab Escort Protein-1 in Complex with Rab Geranylgeranyltransferase. Molecular Cell, 2003, 11, 483-494.	4.5	116
76	Natural productâ€"inspired cascade synthesis yields modulators of centrosome integrity. Nature Chemical Biology, 2012, 8, 179-184.	3.9	116
77	Highly Enantioselective Catalytic [6+3] Cycloadditions of Azomethine Ylides. Angewandte Chemie - International Edition, 2012, 51, 9512-9516.	7.2	115
78	A crowdsourcing evaluation of the NIH chemical probes. Nature Chemical Biology, 2009, 5, 441-447.	3.9	111
79	Catalytic Enantioselective Synthesis of Functionalized Tropanes Reveals Novel Inhibitors of Hedgehog Signaling. Angewandte Chemie - International Edition, 2013, 52, 12892-12896.	7.2	111
80	Cheminformatic Analysis of Natural Products and their Chemical Space. Chimia, 2007, 61, 355-360.	0.3	109
81	Choline-releasing glycerophosphodiesterase EDI3 drives tumor cell migration and metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8155-8160.	3.3	109
82	Influence of the Lipidation Motif on the Partitioning and Association of N-Ras in Model Membrane Subdomains. Journal of the American Chemical Society, 2009, 131, 1557-1564.	6.6	108
83	Enantioselective Formal C(sp³)â^'H Bond Activation in the Synthesis of Bioactive Spiropyrazolone Derivatives. Angewandte Chemie - International Edition, 2019, 58, 307-311.	7.2	108
84	N,N-Phthaloylamino Acids as Chiral Auxiliaries in Asymmetric Mannich-Type Reactions. Angewandte Chemie - International Edition, 1999, 38, 184-187.	7.2	107
85	Revealing conformational substates of lipidated N-Ras protein by pressure modulation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 460-465.	3.3	106
86	Structure of doubly prenylated Ypt1:GDI complex and the mechanism of GDI-mediated Rab recycling. EMBO Journal, 2006, 25, 13-23.	3.5	103
87	Smallâ€Molecule Inhibitors of Islet Amyloid Polypeptide Fibril Formation. Angewandte Chemie - International Edition, 2008, 47, 4679-4682.	7.2	103
88	Applications of Protein Biochips in Biomedical and Biotechnological Research. Angewandte Chemie - International Edition, 2009, 48, 7744-7751.	7.2	103
89	Natural Product Synthesis on Polymeric Supportsâ€"Synthesis and Biological Evaluation of an Indolactam Library. Angewandte Chemie - International Edition, 1999, 38, 2902-2906.	7.2	102
90	The cholesterol membrane anchor of the Hedgehog protein confers stable membrane association to lipid-modified proteins. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 8531-8536.	3.3	102

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91	Identification and Structure of Smallâ€Molecule Stabilizers of 14â€“3â€“3 Proteinâ€“Protein Interactions. Angewandte Chemie - International Edition, 2010, 49, 4129-4132.	7.2	102
92	Asymmetric Synthesis of Natural Product Inspired Tricyclic Benzopyrones by an Organocatalyzed Annulation Reaction. Angewandte Chemie - International Edition, 2008, 47, 6869-6872.	7.2	101
93	Synthesis of analogs of 1,3-dihydroxyacetone phosphate and glyceraldehyde 3-phosphate for use in studies of fructose-1,6-diphosphate aldolase. Journal of Organic Chemistry, 1988, 53, 3457-3465.	1.7	100
94	Interaction analysis of prenylated Rab GTPase with Rab escort protein and GDP dissociation inhibitor explains the need for both regulators. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12294-12299.	3.3	99
95	Discovery of a New Class of Inhibitors of Mycobacterium tuberculosis Protein Tyrosine Phosphataseâ€…B by Biologyâ€Oriented Synthesis. Angewandte Chemie - International Edition, 2008, 47, 5973-5977.	7.2	98
96	Identification of Acyl Protein Thioesterasesâ€…1 and 2 as the Cellular Targets of the Rasâ€Signaling Modulators Palmostatinâ€…B and M. Angewandte Chemie - International Edition, 2011, 50, 9838-9842.	7.2	98
97	Synthesis and Structureâ^'Activity Correlation of Natural-Product Inspired Cyclodepsipeptides Stabilizing F-Actin. Journal of the American Chemical Society, 2010, 132, 3063-3077.	6.6	97
98	Inhibition of Glucose Transporters and Glutaminase Synergistically Impairs Tumor Cell Growth. Cell Chemical Biology, 2019, 26, 1214-1228.e25.	2.5	97
99	An Oxidation-Labile Traceless Linker for Solid-Phase Synthesis. Angewandte Chemie - International Edition, 1999, 38, 1073-1077.	7.2	96
100	Ligandâ€Directed Divergent Synthesis of Carboâ€•and Heterocyclic Ring Systems. Angewandte Chemie - International Edition, 2018, 57, 5212-5226.	7.2	95
101	Allylester als selektiv abspaltbare Carboxyschutzgruppen in der Peptidâ€•und Nâ€Glycopeptidsynthese. Liebigs Annalen Der Chemie, 1983, 1983, 1712-1725.	0.8	94
102	Oriented Immobilization of Farnesylated Proteins by the Thiolâ€Ene Reaction. Angewandte Chemie - International Edition, 2010, 49, 1252-1257.	7.2	93
103	Small-Molecule Target Engagement in Cells. Cell Chemical Biology, 2016, 23, 435-441.	2.5	93
104	Câ^'H Bond Activation for the Synthesis of Heterocyclic Atropisomers Yields Hedgehog Pathway Inhibitors. Angewandte Chemie - International Edition, 2018, 57, 14250-14254.	7.2	93
105	Biology-oriented synthesis of a natural-product inspired oxepane collection yields a small-molecule activator of the Wnt-pathway. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6805-6810.	3.3	91
106	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.	6.6	89
107	Identification and Specificity Profiling of Protein Prenyltransferase Inhibitors Using New Fluorescent Phosphoisoprenoids. Journal of the American Chemical Society, 2006, 128, 2822-2835.	6.6	88
108	Chemoenzymatic Synthesis of N-RasLipopeptides. Journal of the American Chemical Society, 1998, 120, 6889-6902.	6.6	87

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109	Lipid Modifications of a Ras Peptide Exhibit Altered Packing and Mobility versus Host Membrane as Detected by2H Solid-State NMR. Journal of the American Chemical Society, 2005, 127, 12263-12272.	6.6	86
110	Silver catalyzed cascade synthesis of alkaloid ring systems: concise total synthesis of fascaplysin, homofascaplysin C and analogues. Chemical Communications, 2010, 46, 4622.	2.2	86
111	Membrane binding of lipidated Ras peptides and proteins â€" The structural point of view. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 273-288.	1.4	84
112	Orthogonal ring-closing alkyne and olefin metathesis for the synthesis of small GTPase-targeting bicyclic peptides. Nature Communications, 2016, 7, 11300.	5.8	84
113	Chromopynones are pseudo natural product glucose uptake inhibitors targeting glucose transporters GLUT-1 and -3. Nature Chemistry, 2018, 10, 1103-1111.	6.6	84
114	Dielsâ€"Alder Ligation of Peptides and Proteins. Chemistry - A European Journal, 2006, 12, 6095-6109.	1.7	82
115	Synthesis of FunctionalRasLipoproteins and Fluorescent Derivatives. Journal of the American Chemical Society, 2001, 123, 1023-1035.	6.6	80
116	A Microarray Strategy for Mapping the Substrate Specificity of Protein Tyrosine Phosphatase. Angewandte Chemie - International Edition, 2007, 46, 7700-7703.	7.2	80
117	Asymmetric synthesis of bicyclic amino acid derivatives by Azaâ€Dielsâ€Alder reactions in aqueous solution. Liebigs Annalen Der Chemie, 1991, 1991, 1045-1048.	0.8	79
118	Direct Targeting of Rabâ€GTPaseâ€"Effector Interactions. Angewandte Chemie - International Edition, 2014, 53, 2498-2503.	7.2	79
119	Chiral Titanium Alkoxides as Catalysts for the Enantioselective Reduction of Ketones with Boranes. Angewandte Chemie International Edition in English, 1995, 34, 2005-2006.	4.4	78
120	Natural Product Guided Compound Library Development. Current Medicinal Chemistry, 2002, 9, 2129-2145.	1.2	78
121	Sulindac-Derived Ras Pathway Inhibitors Target the Rasâ€"Raf Interaction and Downstream Effectors in the Ras Pathway. Angewandte Chemie - International Edition, 2004, 43, 454-458.	7.2	78
122	Brunsvicamides Aâ^'C:â€‰ Sponge-Related Cyanobacterial Peptides with Mycobacterium tuberculosis Protein Tyrosine Phosphatase Inhibitory Activity. Journal of Medicinal Chemistry, 2006, 49, 4871-4878.	2.9	78
123	Protein Biochips: Oriented Surface Immobilization of Proteins. Macromolecular Chemistry and Physics, 2010, 211, 136-144.	1.1	78
124	A PDE6Î´â€KRas Inhibitor Chemotype with up to Seven Hâ€Bonds and Picomolar Affinity that Prevents Efficient Inhibitor Release by Arl2. Angewandte Chemie - International Edition, 2017, 56, 2423-2428.	7.2	78
125	Solid phase synthesis of cyclic peptides by oxidative cyclative cleavage of an aryl hydrazide linkerâ€"synthesis of stylostatin 1. Tetrahedron Letters, 2001, 42, 5677-5680.	0.7	77
126	Natural Product Derived Receptor Tyrosine Kinase Inhibitors: Identification of IGF1R, Tie-2, and VEGFR-3 Inhibitors. Angewandte Chemie - International Edition, 2002, 41, 1174-1178.	7.2	77

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127	Asymmetric Solid-Phase Synthesis of 6,6-Spiroketals. Angewandte Chemie - International Edition, 2004, 43, 3195-3199.	7.2	77
128	Picomolar, selective, and subtype-specific small-molecule inhibition of TRPC1/4/5 channels. Journal of Biological Chemistry, 2017, 292, 8158-8173.	1.6	77
129	Total Synthesis and Biological Evaluation of (â˜)â€Englerinâ€…A and B: Synthesis of Analogues with Improved Activity Profile. Angewandte Chemie - International Edition, 2011, 50, 3998-4002.	7.2	76
130	Development of a Natural-Product-Derived Chemical Toolbox for Modulation of Protein Function. Chemical Reviews, 2014, 114, 4621-4639.	23.0	76
131	Programmable enantioselective one-pot synthesis of molecules with eight stereocenters. Nature Chemical Biology, 2012, 8, 428-430.	3.9	75
132	Membrane Insertion of a Lipidated Ras Peptide Studied by FTIR, Solid-State NMR, and Neutron Diffraction Spectroscopyâ€. Journal of the American Chemical Society, 2003, 125, 4070-4079.	6.6	74
133	An Enzyme-Labile Linker Group for Organic Syntheses on Solid Supports. Angewandte Chemie - International Edition, 1998, 37, 1143-1146.	7.2	73
134	Manumycin A and Its Analogues Are Irreversible Inhibitors of Neutral Sphingomyelinase. ChemBioChem, 2001, 2, 141-143.	1.3	73
135	Synthesis of the Rheb and Kâ€Ras4B GTPases. Angewandte Chemie - International Edition, 2010, 49, 6090-6095.	7.2	73
136	Pseudo Natural Productsâ€”Chemical Evolution of Natural Product Structure. Angewandte Chemie - International Edition, 2021, 60, 15705-15723.	7.2	73
137	(S)-Proline benzyl ester as chiral auxiliary in Lewis acid catalyzed asymmetric Diels-Alder reactions. Journal of Organic Chemistry, 1988, 53, 6133-6136.	1.7	72
138	Discovery of Neuritogenic Compound Classes Inspired by Natural Products. Angewandte Chemie - International Edition, 2013, 52, 9576-9581.	7.2	72
139	An Enantioselective Inverseâ€Electronâ€Demand Imino Dielsâ€“Alder Reaction. Angewandte Chemie - International Edition, 2014, 53, 2134-2137.	7.2	72
140	Development of Natural Product-Derived Receptor Tyrosine Kinase Inhibitors Based on Conservation of Protein Domain Fold. Journal of Medicinal Chemistry, 2003, 46, 2917-2931.	2.9	71
141	Total Synthesis and Biological Evaluation of the Protein Phosphatase 2A Inhibitor Cytostatin and Analogues. Chemistry - A European Journal, 2004, 10, 2759-2780.	1.7	71
142	Design of compound libraries based on natural product scaffolds and protein structure similarity clustering (PSSC). Molecular BioSystems, 2005, 1, 36.	2.9	71
143	Design, Synthesis, and Phenotypic Profiling of Pyranoâ€Furoâ€Pyridone Pseudo Natural Products. Angewandte Chemie - International Edition, 2019, 58, 14715-14723.	7.2	71
144	Aldolase-catalyzed synthesis of complex C8 and C9 monosaccharides.. Tetrahedron Letters, 1986, 27, 5807-5810.	0.7	70

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145	Chemoenzymatic Synthesis of a Characteristic Phosphorylated and Glycosylated Peptide Fragment of the Large Subunit of Mammalian RNA Polymerase II. Journal of the American Chemical Society, 1997, 119, 6702-6710.	6.6	70
146	The Autodepalmitoylating Activity of APT Maintains the Spatial Organization of Palmitoylated Membrane Proteins. Biophysical Journal, 2014, 106, 93-105.	0.2	70
147	An Enzyme-Labile Safety Catch Linker for Synthesis on a Soluble Polymeric Support. Chemistry - A European Journal, 2001, 7, 959-971.	1.7	69
148	Î²-Lactone probes identify a papain-like peptide ligase in Arabidopsis thaliana. Nature Chemical Biology, 2008, 4, 557-563.	3.9	69
149	Chemical biologyâ€"identification of small molecule modulators of cellular activity by natural product inspired synthesis. Chemical Society Reviews, 2008, 37, 1361.	18.7	69
150	LiClO4 in Etherâ€"an Unusual Solvent. Angewandte Chemie International Edition in English, 1991, 30, 1306-1308.	4.4	68
151	Chemical Evolution of Natural Product Structure. Journal of the American Chemical Society, 2022, 144, 3314-3329.	6.6	68
152	The enzymic utilization of sucrose in the synthesis of amylose and derivatives of amylose, using phosphorylases. Carbohydrate Research, 1986, 157, c4-c7.	1.1	67
153	Cross-Linked Enzyme Crystals(CLECs): Efficient and Stable Biocatalysts for Preparative Organic Chemistry. Angewandte Chemie International Edition in English, 1997, 36, 722-724.	4.4	67
154	Identification of Potent Ras Signaling Inhibitors by Pathway-Selective Phenotype-Based Screening. Angewandte Chemie - International Edition, 2004, 43, 450-454.	7.2	67
155	Protein structure similarity clustering (PSSC) and natural product structure as inspiration sources for drug development and chemical genomics. Current Opinion in Chemical Biology, 2005, 9, 232-239.	2.8	67
156	Total Synthesis of Chondramideâ€…C and Its Binding Mode to Fâ€Actin. Angewandte Chemie - International Edition, 2008, 47, 6473-6477.	7.2	67
157	The Lipid Modifications of Ras that Sense Membrane Environments and Induce Local Enrichment. Angewandte Chemie - International Edition, 2009, 48, 8784-8787.	7.2	67
158	Development of Highly Potent Inhibitors of the Rasâ€Targeting Human Acyl Protein Thioesterases Based on Substrate Similarity Design. Angewandte Chemie - International Edition, 2011, 50, 9832-9837.	7.2	67
159	Covalent Protein Labeling at Glutamic Acids. Cell Chemical Biology, 2017, 24, 589-597.e5.	2.5	67
160	Amino Acid Esters as Chiral Auxiliary Groups in Lewis Acid Catalyzed Reactions of Electron-rich Siloxydienes with Imines. Angewandte Chemie International Edition in English, 1990, 29, 1468-1471.	4.4	66
161	The Lipidated Membrane Anchor of Full Length N-Ras Protein Shows an Extensive Dynamics as Revealed by Solid-State NMR Spectroscopy. Journal of the American Chemical Society, 2006, 128, 13840-13846.	6.6	66
162	Gold(III)-Mediated Aldol Condensations Provide Efficient Access to Nitrogen Heterocycles. Organic Letters, 2008, 10, 2159-2162.	2.4	66

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