Herbert Waldmann

List of Publications by Citations

754 papers	34,966 citations	91 h-index	147 g-index
862 ext. papers	38,368 ext. citations	8 avg, IF	7.43 L-index

#	Paper	IF	Citations
754	An acylation cycle regulates localization and activity of palmitoylated Ras isoforms. *Science*, **2005**, 307, 1746-52	33.3	679
753	Fluorogenic probes for live-cell imaging of the cytoskeleton. *Nature Methods*, **2014**, 11, 731-3	21.6	507
752	Chemical strategies for generating protein biochips. *Angewandte Chemie - International Edition*, **2008**, 47, 9618-47	16.4	507
751	The Pictet-Spengler reaction in nature and in organic chemistry. *Angewandte Chemie - International Edition*, **2011**, 50, 8538-64	16.4	492
750	Highly enantioselective synthesis and cellular evaluation of spirooxindoles inspired by natural products. *Nature Chemistry*, **2010**, 2, 735-40	17.6	492
749	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, 17272-7	11.5	489
748	Small molecule inhibition of the KRAS-PDEδ interaction impairs oncogenic KRAS signalling. *Nature*, **2013**, 497, 638-42	50.4	460
747	Activation of the Raf-MEK-ERK pathway is required for neutrophil extracellular trap formation. *Nature Chemical Biology*, **2011**, 7, 75-7	11.7	431
746	A functional screen implicates microRNA-138-dependent regulation of the depalmitoylation enzyme APT1 in dendritic spine morphogenesis. *Nature Cell Biology*, **2009**, 11, 705-16	23.4	396
745	Biology-oriented synthesis. *Angewandte Chemie - International Edition*, **2011**, 50, 10800-26	16.4	376
744	Inhibitors of protein tyrosine phosphatases: next-generation drugs?. *Angewandte Chemie - International Edition*, **2005**, 44, 3814-39	16.4	371
743	Catalytic enantioselective 1,3-dipolar cycloadditions of azomethine ylides for biology-oriented synthesis. *Accounts of Chemical Research*, **2014**, 47, 1296-310	24.3	346
742	Target identification for small bioactive molecules: finding the needle in the haystack. *Angewandte Chemie - International Edition*, **2013**, 52, 2744-92	16.4	339
741	From protein domains to drug candidates-natural products as guiding principles in the design and synthesis of compound libraries. *Angewandte Chemie - International Edition*, **2002**, 41, 2879-90	16.4	338
740	The palmitoylation machinery is a spatially organizing system for peripheral membrane proteins. *Cell*, **2010**, 141, 458-71	56.2	326
739	The scaffold tree--visualization of the scaffold universe by hierarchical scaffold classification. *Journal of Chemical Information and Modeling*, **2007**, 47, 47-58	6.1	288
738	Small-molecule inhibition of APT1 affects Ras localization and signaling. *Nature Chemical Biology*, **2010**, 6, 449-56	11.7	287

737	Asymmetric Hetero Diels-Alder Reactions. *Synthesis*, **1994**, 1994, 535-551	2.9	279
736	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, 10606-11	11.5	271
735	Charting, navigating, and populating natural product chemical space for drug discovery. *Journal of Medicinal Chemistry*, **2012**, 55, 5989-6001	8.3	266
734	Synthesis of natural product inspired compound collections. *Angewandte Chemie - International Edition*, **2009**, 48, 3224-42	16.4	253
733	Protecting Group Strategies in Organic Synthesis. *Angewandte Chemie International Edition in English*, **1996**, 35, 2056-2083		235
732	Identification of thiazolidinones spiro-fused to indolin-2-ones as potent and selective inhibitors of the Mycobacterium tuberculosis protein tyrosine phosphatase B. *Angewandte Chemie - International Edition*, **2010**, 49, 5902-5	16.4	226
731	General Enantioselective C-H Activation with Efficiently Tunable Cyclopentadienyl Ligands. *Angewandte Chemie - International Edition*, **2017**, 56, 2429-2434	16.4	223
730	Development of tau aggregation inhibitors for Alzheimer's disease. *Angewandte Chemie - International Edition*, **2009**, 48, 1740-52	16.4	211
729	Natural-product-derived fragments for fragment-based ligand discovery. *Nature Chemistry*, **2013**, 5, 21-8	17.6	207
728	Bioactivity-guided navigation of chemical space. *Accounts of Chemical Research*, **2010**, 43, 1103-14	24.3	202
727	Arl2-GTP and Arl3-GTP regulate a GDI-like transport system for farnesylated cargo. *Nature Chemical Biology*, **2011**, 7, 942-9	11.7	199
726	Rabbit muscle aldolase as a catalyst in organic synthesis. *Journal of the American Chemical Society*, **1989**, 111, 627-635	16.4	195
725	New Modalities for Challenging Targets in Drug Discovery. *Angewandte Chemie - International Edition*, **2017**, 56, 10294-10323	16.4	193
724	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, 16721-6	11.5	191
723	Structure of Rab GDP-dissociation inhibitor in complex with prenylated YPT1 GTPase. *Science*, **2003**, 302, 646-50	33.3	187
722	Interactive exploration of chemical space with Scaffold Hunter. *Nature Chemical Biology*, **2009**, 5, 581-3	11.7	180
721	The Allyl Group as Mildly and Selectively Removable Carboxy-Protecting Group for the Synthesis of Labile O-Glycopeptides. *Angewandte Chemie International Edition in English*, **1984**, 23, 71-72		176
720	Biology-oriented synthesis: harnessing the power of evolution. *Journal of the American Chemical Society*, **2014**, 136, 11853-9	16.4	171

719	Photochemical surface patterning by the thiol-ene reaction. *Angewandte Chemie - International Edition*, **2008**, 47, 4421-4	16.4	169
718	Staudinger ligation: a new immobilization strategy for the preparation of small-molecule arrays. *Angewandte Chemie - International Edition*, **2003**, 42, 5830-4	16.4	166
717	Small-molecule modulation of Ras signaling. *Nature Chemical Biology*, **2014**, 10, 613-22	11.7	161
716	Bioorganic synthesis of lipid-modified proteins for the study of signal transduction. *Nature*, **2000**, 403, 223-6	50.4	160
715	Enzymic Protecting Group Techniques. *Chemical Reviews*, **1994**, 94, 911-937	68.1	160
714	The asymmetric hetero-Diels-Alder reaction in the syntheses of biologically relevant compounds. *Angewandte Chemie - International Edition*, **2014**, 53, 11146-57	16.4	159
713	Therapeutic intervention based on protein prenylation and associated modifications. *Nature Chemical Biology*, **2006**, 2, 518-28	11.7	155
712	Analysis of the eukaryotic prenylome by isoprenoid affinity tagging. *Nature Chemical Biology*, **2009**, 5, 227-35	11.7	145
711	Diels-Alder ligation and surface immobilization of proteins. *Angewandte Chemie - International Edition*, **2005**, 45, 296-301	16.4	143
710	Bioorthogonal chemistry for site-specific labeling and surface immobilization of proteins. *Accounts of Chemical Research*, **2011**, 44, 762-73	24.3	141
709	Biology-inspired synthesis of compound libraries. *Cellular and Molecular Life Sciences*, **2008**, 65, 1186-201	10.3	140
708	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, 17034-9	11.5	138
707	(-)-Englerin A is a potent and selective activator of TRPC4 and TRPC5 calcium channels. *Angewandte Chemie - International Edition*, **2015**, 54, 3787-91	16.4	136
706	The therapeutic potential of phosphatase inhibitors. *Current Opinion in Chemical Biology*, **2009**, 13, 272-83	9.7	135
705	Ras-A Molecular Switch Involved in Tumor Formation. *Angewandte Chemie - International Edition*, **2000**, 39, 4192-4214	16.4	135
704	Die Pictet-Spengler-Reaktion in der Natur und der organischen Chemie. *Angewandte Chemie*, **2011**, 123, 8692-8719	3.6	134
703	Protein structure similarity clustering and natural product structure as guiding principles in drug discovery. *Drug Discovery Today*, **2005**, 10, 471-83	8.8	134
702	Site-selective protein immobilization by Staudinger ligation. *Angewandte Chemie - International Edition*, **2006**, 45, 1408-12	16.4	129

701	Lipidated ras and rab peptides and proteins--synthesis, structure, and function. *Angewandte Chemie - International Edition*, **2006**, 45, 6622-46	16.4	124
700	Rhodanine-based tau aggregation inhibitors in cell models of tauopathy. *Angewandte Chemie - International Edition*, **2007**, 46, 9215-9	16.4	123
699	Enzymatic protecting group techniques. *Chemical Reviews*, **2001**, 101, 3367-96	68.1	123
698	Organic Synthesis and Biological Signal Transduction. *Angewandte Chemie - International Edition*, **1998**, 37, 688-749	16.4	121
697	Bioactivity-guided mapping and navigation of chemical space. *Nature Chemical Biology*, **2009**, 5, 585-92	11.7	120
696	Solid-phase synthesis of dysidiolide-derived protein phosphatase inhibitors. *Journal of the American Chemical Society*, **2002**, 124, 13171-8	16.4	120
695	S-Acylation and plasma membrane targeting of the farnesylated carboxyl-terminal peptide of N-ras in mammalian fibroblasts. *Biochemistry*, **1997**, 36, 13102-9	3.2	117
694	Visualizing association of N-ras in lipid microdomains: influence of domain structure and interfacial adsorption. *Journal of the American Chemical Society*, **2006**, 128, 192-201	16.4	117
693	Biologie-orientierte Synthese (BIOS). *Angewandte Chemie*, **2011**, 123, 10990-11018	3.6	116
692	Membrane-mediated induction and sorting of K-Ras microdomain signaling platforms. *Journal of the American Chemical Society*, **2011**, 133, 880-7	16.4	116
691	Allyl esters as carboxy protecting groups in the synthesis of O-glycopeptides. *Journal of Organic Chemistry*, **1989**, 54, 751-756	4.2	115
690	N-Ras forms dimers at POPC membranes. *Biophysical Journal*, **2012**, 103, 1585-93	2.9	113
689	Asymmetric tandem Mannich-Michael reactions of amino acid ester imines with Danishefsky's diene. *Journal of Organic Chemistry*, **1992**, 57, 4444-4451	4.2	111
688	General Enantioselective C□H Activation with Efficiently Tunable Cyclopentadienyl Ligands. *Angewandte Chemie*, **2017**, 129, 2469-2474	3.6	109
687	Natural products are biologically validated starting points in structural space for compound library development: solid-phase synthesis of dysidiolide-derived phosphatase inhibitors. *Angewandte Chemie - International Edition*, **2002**, 41, 307-11	16.4	109
686	Natural product-inspired cascade synthesis yields modulators of centrosome integrity. *Nature Chemical Biology*, **2011**, 8, 179-84	11.7	108
685	Amino Acid Esters: Versatile Chiral Auxiliary Groups for the Asymmetric Synthesis of Nitrogen Heterocycles. *Synlett*, **1995**, 1995, 133-141	2.2	108
684	3-Substituted indolizine-1-carbonitrile derivatives as phosphatase inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 59-63	2.9	107

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682	Total synthesis and biological evaluation of the nakijiquinones. *Journal of the American Chemical Society*, **2001**, 123, 11586-93	16.4	105
681	Structure of Rab escort protein-1 in complex with Rab geranylgeranyltransferase. *Molecular Cell*, **2003**, 11, 483-94	17.6	101
680	Highly enantioselective catalytic [6+3] cycloadditions of azomethine ylides. *Angewandte Chemie - International Edition*, **2012**, 51, 9512-6	16.4	100
679	Impairment of prostate cancer cell growth by a selective and reversible lysine-specific demethylase 1 inhibitor. *International Journal of Cancer*, **2012**, 131, 2704-9	7.5	98
678	Membrane targeting mechanism of Rab GTPases elucidated by semisynthetic protein probes. *Nature Chemical Biology*, **2010**, 6, 534-40	11.7	98
677	Von Proteindomänen zu Wirkstoffkandidaten □Naturstoffe als Leitstrukturen f□das Design und die Synthese von Substanzbibliotheken. *Angewandte Chemie*, **2002**, 114, 3002	3.6	98
676	A crowdsourcing evaluation of the NIH chemical probes. *Nature Chemical Biology*, **2009**, 5, 441-7	11.7	97
675	Small-molecule inhibitors of islet amyloid polypeptide fibril formation. *Angewandte Chemie - International Edition*, **2008**, 47, 4679-82	16.4	97
674	Die Synthese von naturstoffinspirierten Verbindungsbibliotheken. *Angewandte Chemie*, **2009**, 121, 3272-3290	3.6	96
673	Catalytic enantioselective synthesis of functionalized tropanes reveals novel inhibitors of hedgehog signaling. *Angewandte Chemie - International Edition*, **2013**, 52, 12892-6	16.4	95
672	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, 1557-64	16.4	94
671	Applications of protein biochips in biomedical and biotechnological research. *Angewandte Chemie - International Edition*, **2009**, 48, 7744-51	16.4	93
670	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, 460-5	11.5	93
669	Asymmetric synthesis of natural product inspired tricyclic benzopyrones by an organocatalyzed annulation reaction. *Angewandte Chemie - International Edition*, **2008**, 47, 6869-72	16.4	93
668	Cheminformatic Analysis of Natural Products and their Chemical Space. *Chimia*, **2007**, 61, 355-360	1.3	93
667	N,N-Phthaloylamino Acids as Chiral Auxiliaries in Asymmetric Mannich-Type Reactions. *Angewandte Chemie - International Edition*, **1999**, 38, 184-187	16.4	93
666	Natural Product Synthesis on Polymeric Supports-Synthesis and Biological Evaluation of an Indolactam Library. *Angewandte Chemie - International Edition*, **1999**, 38, 2902-2906	16.4	93

665	Identification and structure of small-molecule stabilizers of 14-3-3 protein-protein interactions. *Angewandte Chemie - International Edition*, **2010**, 49, 4129-32	16.4	92
664	Structure of doubly prenylated Ypt1:GDI complex and the mechanism of GDI-mediated Rab recycling. *EMBO Journal*, **2006**, 25, 13-23	13	92
663	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, 12294-9	11.5	91
662	Identification of acyl protein thioesterases 1 and 2 as the cellular targets of the Ras-signaling modulators palmostatin B and M. *Angewandte Chemie - International Edition*, **2011**, 50, 9838-42	16.4	90
661	Discovery of a new class of inhibitors of Mycobacterium tuberculosis protein tyrosine phosphatase B by biology-oriented synthesis. *Angewandte Chemie - International Edition*, **2008**, 47, 5973-7	16.4	90
660	Synthesis and structure-activity correlation of natural-product inspired cyclodepsipeptides stabilizing F-actin. *Journal of the American Chemical Society*, **2010**, 132, 3063-77	16.4	88
659	Oriented immobilization of farnesylated proteins by the thiol-ene reaction. *Angewandte Chemie - International Edition*, **2010**, 49, 1252-7	16.4	87
658	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, 8531-6	11.5	86
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655	Die Allylgruppe als mild und selektiv abspaltbare Carboxy-Schutzgruppe zur Synthese empfindlicher O-Glycopeptide. *Angewandte Chemie*, **1984**, 96, 49-50	3.6	84
654	Lipid modifications of a Ras peptide exhibit altered packing and mobility versus host membrane as detected by 2H solid-state NMR. *Journal of the American Chemical Society*, **2005**, 127, 12263-72	16.4	82
653	Allylester als selektiv abspaltbare Carboxyschutzgruppen in der Peptid- und N-Glycopeptidsynthese. *Liebigs Annalen Der Chemie*, **1983**, 1983, 1712-1725		81
652	Orthogonal ring-closing alkyne and olefin metathesis for the synthesis of small GTPase-targeting bicyclic peptides. *Nature Communications*, **2016**, 7, 11300	17.4	79
651	BIOS: Similarity-based design of natural product derived compound collections. *Chemistry Central Journal*, **2008**, 2,		78
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649	Diels-Alder ligation of peptides and proteins. *Chemistry - A European Journal*, **2006**, 12, 6095-109	4.8	77
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647	Natural product guided compound library development. *Current Medicinal Chemistry*, **2002**, 9, 2129-45	4.3	76
646	Chemoenzymatic Synthesis of N-RasLipopeptides. *Journal of the American Chemical Society*, **1998**, 120, 6889-6902	16.4	76
645	A microarray strategy for mapping the substrate specificity of protein tyrosine phosphatase. *Angewandte Chemie - International Edition*, **2007**, 46, 7700-3	16.4	75
644	Synthesis of functional Ras lipoproteins and fluorescent derivatives. *Journal of the American Chemical Society*, **2001**, 123, 1023-35	16.4	75
643	An oxidation-labile traceless linker for solid-phase synthesis. *Angewandte Chemie - International Edition*, **1999**, 38, 1073-7	16.4	75
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640	Asymmetric solid-phase synthesis of 6,6-spiroketals. *Angewandte Chemie - International Edition*, **2004**, 43, 3195-9	16.4	73
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638	Membrane insertion of a lipidated ras peptide studied by FTIR, solid-state NMR, and neutron diffraction spectroscopy. *Journal of the American Chemical Society*, **2003**, 125, 4070-9	16.4	71
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631	Inhibitoren der Proteintyrosinphosphatasen: Kandidaten f□ zuk□ftige Wirkstoffe?. *Angewandte Chemie*, **2005**, 117, 3880-3906	3.6	69
630	Solid phase synthesis of cyclic peptides by oxidative cyclative cleavage of an aryl hydrazide linker□ynthesis of stylostatin 1. *Tetrahedron Letters*, **2001**, 42, 5677-5680	2	69

629	Chiral Titanium Alkoxides as Catalysts for the Enantioselective Reduction of Ketones with Boranes. *Angewandte Chemie International Edition in English*, **1995**, 34, 2005-2006		69
628	Discovery of neuritogenic compound classes inspired by natural products. *Angewandte Chemie - International Edition*, **2013**, 52, 9576-81	16.4	68
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615	Total synthesis and biological evaluation of the protein phosphatase 2A inhibitor cytostatin and analogues. *Chemistry - A European Journal*, **2004**, 10, 2759-80	4.8	64
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599	(S)-Proline benzyl ester as chiral auxiliary in Lewis acid catalyzed asymmetric Diels-Alder reactions. *Journal of Organic Chemistry*, **1988**, 53, 6133-6136	4.2	61
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