Maja Khn

List of Publications by Citations

86 papers	3,109 citations	30 h-index	55 g-index
95 ext. papers	3,588 ext. citations	7.6 avg, IF	5.49 L-index

#	Paper	IF	Citations
86	The Staudinger ligation-a gift to chemical biology. *Angewandte Chemie - International Edition*, **2004**, 43, 3106-16	16.4	478
85	Azide-alkyne coupling: a powerful reaction for bioconjugate chemistry. *ChemBioChem*, **2003**, 4, 1147-9	3.8	178
84	Photochemical surface patterning by the thiol-ene reaction. *Angewandte Chemie - International Edition*, **2008**, 47, 4421-4	16.4	169
83	Staudinger ligation: a new immobilization strategy for the preparation of small-molecule arrays. *Angewandte Chemie - International Edition*, **2003**, 42, 5830-4	16.4	166
82	Diels-Alder ligation and surface immobilization of proteins. *Angewandte Chemie - International Edition*, **2005**, 45, 296-301	16.4	143
81	Site-selective protein immobilization by Staudinger ligation. *Angewandte Chemie - International Edition*, **2006**, 45, 1408-12	16.4	129
80	Die Staudinger-Ligation Ein Geschenk fü die Chemische Biologie. *Angewandte Chemie*, **2004**, 116, 3168-3174	3.68	113
79	Structure-activity analysis of semisynthetic nucleosomes: mechanistic insights into the stimulation of Dot1L by ubiquitylated histone H2B. *ACS Chemical Biology*, **2009**, 4, 958-68	4.9	104
78	Elucidating human phosphatase-substrate networks. *Science Signaling*, **2013**, 6, rs10	8.8	98
77	Molecular mechanisms of the PRL phosphatases. *FEBS Journal*, **2013**, 280, 505-24	5.7	88
76	Challenges and opportunities in the development of protein phosphatase-directed therapeutics. *ACS Chemical Biology*, **2013**, 8, 36-45	4.9	79
75	Functional evaluation of carbohydrate-centred glycoclusters by enzyme-linked lectin assay: ligands for concanavalin A. *ChemBioChem*, **2004**, 5, 771-7	3.8	77
74	A microarray strategy for mapping the substrate specificity of protein tyrosine phosphatase. *Angewandte Chemie - International Edition*, **2007**, 46, 7700-3	16.4	75
73	Molecular mechanism of SHP2 activation by PD-1 stimulation. *Science Advances*, **2020**, 6, eaay4458	14.3	66
72	The human DEPhOsphorylation database DEPOD: a 2015 update. *Nucleic Acids Research*, **2015**, 43, D531-5	10.1	55
71	Dual-specificity phosphatases as molecular targets for inhibition in human disease. *Antioxidants and Redox Signaling*, **2014**, 20, 2251-73	8.4	54
70	Immobilization strategies for small molecule, peptide and protein microarrays. *Journal of Peptide Science*, **2009**, 15, 393-7	2.1	53

69	Approaches to Study Phosphatases. *ACS Chemical Biology*, **2016**, 11, 2944-2961	4.9	52
68	The metastasis-promoting phosphatase PRL-3 shows activity toward phosphoinositides. *Biochemistry*, **2011**, 50, 7579-90	3.2	51
67	Photochemical Surface Patterning by the Thiol-Ene Reaction. *Angewandte Chemie*, **2008**, 120, 4493-4496	3.6	51
66	Development of a peptide that selectively activates protein phosphatase-1 in living cells. *Angewandte Chemie - International Edition*, **2012**, 51, 10054-9	16.4	49
65	Preparation of biomolecule microstructures and microarrays by thiol-ene photoimmobilization. *ChemBioChem*, **2010**, 11, 235-47	3.8	45
64	Rapid erasure of hippocampal memory following inhibition of dentate gyrus granule cells. *Nature Communications*, **2016**, 7, 10923	17.4	43
63	Site-Selective Protein Immobilization by Staudinger Ligation. *Angewandte Chemie*, **2006**, 118, 1436-1440	3.6	41
62	Diels Alder Ligation and Surface Immobilization of Proteins. *Angewandte Chemie*, **2006**, 118, 302-307	3.6	41
61	Staudinger-Ligation: eine Immobilisierungsstrategie zur Herstellung von Wirkstoff-Arrays. *Angewandte Chemie*, **2003**, 115, 6010-6014	3.6	38
60	The cholesterol transfer protein GRAMD1A regulates autophagosome biogenesis. *Nature Chemical Biology*, **2019**, 15, 710-720	11.7	36
59	Biochemical evaluation of virtual screening methods reveals a cell-active inhibitor of the cancer-promoting phosphatases of regenerating liver. *European Journal of Medicinal Chemistry*, **2014**, 88, 89-100	6.8	35
58	Microcystins: Synthesis and structure-activity relationship studies toward PP1 and PP2A. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 1118-1126	3.4	33
57	A generic building block for C- and N-terminal protein-labeling and protein-immobilization. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 6288-306	3.4	31
56	Noncanonical binding of Lck to CD3 promotes TCR signaling and CAR function. *Nature Immunology* , **2020**, 21, 902-913	19.1	30
55	Turn and Face the Strange: A New View on Phosphatases. *ACS Central Science*, **2020**, 6, 467-477	16.8	29
54	Mouse Rif1 is a regulatory subunit of protein phosphatase 1 (PP1). *Scientific Reports*, **2017**, 7, 2119	4.9	28
53	Targeting the untargetable: recent advances in the selective chemical modulation of protein phosphatase-1 activity. *Current Opinion in Chemical Biology*, **2013**, 17, 361-8	9.7	24
52	VHR/DUSP3 phosphatase: structure, function and regulation. *FEBS Journal*, **2015**, 282, 1871-90	5.7	23

51	Activation of protein phosphatase 1 by a selective phosphatase disrupting peptide reduces sarcoplasmic reticulum Ca leak in human heart failure. *European Journal of Heart Failure*, **2018**, 20, 1673-1685	12.3	22
50	Protein kinase/phosphatase balance mediates the effects of increased late sodium current on ventricular calcium cycling. *Basic Research in Cardiology*, **2019**, 114, 13	11.8	19
49	The human DEPhOsphorylation Database DEPOD: 2019 update. *Database: the Journal of Biological Databases and Curation*, **2019**, 2019,	5	19
48	PRL-3 disrupts epithelial architecture by altering the post-mitotic midbody position. *Journal of Cell Science*, **2016**, 129, 4130-4142	5.3	17
47	Development of accessible peptidic tool compounds to study the phosphatase PTP1B in intact cells. *ACS Chemical Biology*, **2014**, 9, 769-76	4.9	16
46	Procyanidins Negatively Affect the Activity of the Phosphatases of Regenerating Liver. *PLoS ONE*, **2015**, 10, e0134336	3.7	16
45	Regulatory mechanisms of phosphatase of regenerating liver (PRL)-3. *Biochemical Society Transactions*, **2016**, 44, 1305-1312	5.1	16
44	Synthesis of Highly Selective Submicromolar Microcystin-Based Inhibitors of Protein Phosphatase (PP)2A over PP1. *Angewandte Chemie - International Edition*, **2016**, 55, 13985-13989	16.4	16
43	Eine Mikroarray-Strategie zur Untersuchung der Substratspezifitäten von Protein-Tyrosin-Phosphatasen. *Angewandte Chemie*, **2007**, 119, 7844-7847	3.6	14
42	Chemical activators of protein phosphatase-1 induce calcium release inside intact cells. *Chemistry and Biology*, **2013**, 20, 1179-86		12
41	Unnatural amino acid mutagenesis reveals dimerization as a negative regulatory mechanism of VHR phosphatase activity. *ACS Chemical Biology*, **2014**, 9, 1451-9	4.9	11
40	Phosphatases: Their Roles in Cancer and Their Chemical Modulators. *Advances in Experimental Medicine and Biology*, **2016**, 917, 209-40	3.6	9
39	Synthesis of hydrolysis-resistant pyridoxal 5′-phosphate analogs and their biochemical and X-ray crystallographic characterization with the pyridoxal phosphatase chronophin. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 2819-27	3.4	8
38	Keep it on the edge: The post-mitotic midbody as a polarity signal unit. *Communicative and Integrative Biology*, **2017**, 10, e1338990	1.7	8
37	Development of a solid phase synthesis strategy for soluble phosphoinositide analogues. *Chemical Science*, **2012**, 3, 1893	9.4	8
36	Interrogating PP1 Activity in the MAPK Pathway with Optimized PP1-Disrupting Peptides. *ChemBioChem*, **2019**, 20, 66-71	3.8	8
35	Miklós Bodanszky Award Lecture: Advances in the selective targeting of protein phosphatase-1 and phosphatase-2A with peptides. *Journal of Peptide Science*, **2017**, 23, 749-756	2.1	7
34	Dissecting the sequence determinants for dephosphorylation by the catalytic subunits of phosphatases PP1 and PP2A. *Nature Communications*, **2020**, 11, 3583	17.4	7

33	The receptor PTPRU is a redox sensitive pseudophosphatase. *Nature Communications*, **2020**, 11, 3219	17.4	6
32	Effects of stably incorporated iron on protein phosphatase-1 structure and activity. *FEBS Letters*, **2018**, 592, 4028-4038	3.8	6
31	Maintaining proteostasis under mechanical stress. *EMBO Reports*, **2021**, 22, e52507	6.5	6
30	Structural and mechanistic insights into the interaction of the circadian transcription factor BMAL1 with the KIX domain of the CREB-binding protein. *Journal of Biological Chemistry*, **2019**, 294, 16604-16619	5.4	5
29	Azide-alkyne cycloaddition-mediated cyclization of phosphonopeptides and their evaluation as PTP1B binders and enrichment tools. *Bioorganic and Medicinal Chemistry*, **2015**, 23, 2848-53	3.4	5
28	Entwicklung eines Peptids zur selektiven Aktivierung von Proteinphosphatase-1 in lebenden Zellen. *Angewandte Chemie*, **2012**, 124, 10200-10206	3.6	5
27	Biosensor-Enabled Multiplexed On-Site Therapeutic Drug Monitoring of Antibiotics. *Advanced Materials*, **2021**, e2104555	24	5
26	Development of a Photoactivatable Protein Phosphatase-1-Disrupting Peptide. *Journal of Organic Chemistry*, **2020**, 85, 1712-1717	4.2	4
25	Towards Dissecting the Mechanism of Protein Phosphatase-1 Inhibition by Its C-Terminal Phosphorylation. *ChemBioChem*, **2021**, 22, 834-838	3.8	4
24	Mutational Analysis of a Conserved Glutamate Reveals Unique Mechanistic and Structural Features of the Phosphatase PRL-3. *ACS Omega*, **2017**, 2, 9171-9180	3.9	3
23	Efficient Scaled-Up Synthesis of N-Fmoc-4-Phosphono(difluoromethyl)-l-phenylalanine and Its Incorporation into Peptides. *Synthesis*, **2011**, 2011, 3255-3260	2.9	3
22	Cross-TCR Antagonism Revealed by Optogenetically Tuning the Half-Life of the TCR Ligand Binding. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
21	Synthesis of Highly Selective Submicromolar Microcystin-Based Inhibitors of Protein Phosphatase (PP)2A over PP1. *Angewandte Chemie*, **2016**, 128, 14191-14195	3.6	3
20	Prediction and verification of novel peptide targets of protein tyrosine phosphatase 1B. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 3255-8	3.4	2
19	Simultaneous protein tagging in two colors. *Chemistry and Biology*, **2008**, 15, 91-2		2
18	The phosphatase PRL-3 affects intestinal homeostasis by altering the crypt cell composition. *Journal of Molecular Medicine*, **2021**, 99, 1413-1426	5.5	2
17	Protein tyrosine phosphatases in multiple myeloma. *Cancer Letters*, **2021**, 501, 105-113	9.9	2
16	Chemical biology techniques unlock the secrets of casein kinase 2 regulation by phosphorylation and glycosylation. *ChemBioChem*, **2012**, 13, 1253-5	3.8	1

15	Small Molecule Arrays **2004**, 485-500		1
14	DTL-DephosSite: Deep Transfer Learning Based Approach to Predict Dephosphorylation Sites. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 662983	5.7	1
13	Structural basis of Naa20 activity towards a canonical NatB substrate. *Communications Biology*, **2021**, 4, 2	6.7	1
12	K□nstliche Adapterproteine zur Initiierung von Protein-Protein-Wechselwirkungen. *Angewandte Chemie*, **2012**, 124, 8282-8284	3.6	0
11	A molecular t□e-□□e arranged by a designed adaptor protein. *Angewandte Chemie - International Edition*, **2012**, 51, 8160-2	16.4	0
10	Evolutionary crossroads of cell signaling: PP1 and PP2A substrate sites in intrinsically disordered regions. *Biochemical Society Transactions*, **2021**, 49, 1065-1074	5.1	0
9	finDr: A web server for D-peptide ligand identification.. *Synthetic and Systems Biotechnology*, **2021**, 6, 402-413	4.2	0
8	Short peptide pharmacophores developed from protein phosphatase-1 disrupting peptides (PDPs).. *Bioorganic and Medicinal Chemistry*, **2022**, 65, 116785	3.4	0
7	PLDMS: Phosphopeptide Library Dephosphorylation Followed by Mass Spectrometry Analysis to Determine the Specificity of Phosphatases for Dephosphorylation Site Sequences. *Methods in Molecular Biology*, **2022**, 43-64	1.4	0
6	Strategies for Designing Specific Protein Tyrosine Phosphatase Inhibitors and Their Intracellular Activation **2014**, 37-50		
5	Design and Application of Chemical Probes for Protein Serine/Threonine Phosphatase Activation **2014**, 51-62		
4	Building up a chemical proteomics network in Europe and beyond. *ACS Chemical Biology*, **2014**, 9, 1647-84.9		
3	Phosphatases: Their Roles in Cancer and Their Chemical Modulators **2015**, 209-240		
2	Biosensor-Enabled Multiplexed On-Site Therapeutic Drug Monitoring of Antibiotics (Adv. Mater. 2/2022). *Advanced Materials*, **2022**, 34, 2270012	24	
1	The Gene Encodes for an Atypical Dual Specificity Lipid-Like Phosphatase Expressed in Promastigotes and Amastigotes; Substrate Specificity, Intracellular Localizations, and Putative Role(s). *Frontiers in Cellular and Infection Microbiology*, **2021**, 11, 591868	5.9	