

Kathrin Lang

List of Publications by Year in descending order

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56

papers

5,377

citations

136950

32

h-index

161849

54

g-index

61

all docs

61

docs citations

61

times ranked

5080

citing authors

#	ARTICLE	IF	CITATIONS
1	Substrate Profiling of Mitochondrial Caseinolytic Protease P via a Site-Specific Photocrosslinking Approach. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	15
2	Site-Specific Protein Labeling and Generation of Defined Ubiquitin-Protein Conjugates Using an Asparaginyl Endopeptidase. <i>Journal of the American Chemical Society</i> , 2022, 144, 13118-13126.	13.7	19
3	Structural basis for VPS34 kinase activation by Rab1 and Rab5 on membranes. <i>Nature Communications</i> , 2021, 12, 1564.	12.8	50
4	Identification of permissive amber suppression sites for efficient non-canonical amino acid incorporation in mammalian cells. <i>Nucleic Acids Research</i> , 2021, 49, e62-e62.	14.5	30
5	Bioorthogonal chemistry. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	21.2	201
6	Rab1-AMPylation by Legionella DrrA is allosterically activated by Rab1. <i>Nature Communications</i> , 2021, 12, 460.	12.8	14
7	A modular toolbox to generate complex polymeric ubiquitin architectures using orthogonal sortase enzymes. <i>Nature Communications</i> , 2021, 12, 6515.	12.8	35
8	Decorating proteins with LACE. <i>Nature Chemistry</i> , 2020, 12, 980-982.	13.6	3
9	Increasing the chemical space of proteins in living cells via genetic code expansion. <i>Current Opinion in Chemical Biology</i> , 2020, 58, 112-120.	6.1	16
10	A methylated lysine is a switch point for conformational communication in the chaperone Hsp90. <i>Nature Communications</i> , 2020, 11, 1219.	12.8	24
11	Site-Specific Protein Labeling with Fluorophores as a Tool To Monitor Protein Turnover. <i>ChemBioChem</i> , 2020, 21, 1861-1867.	2.6	10
12	Photo-Induced and Rapid Labeling of Tetrazine-Bearing Proteins via Cyclopropanone-Caged Bicyclononynes. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15876-15882.	13.8	57
13	Photo-Induced and Rapid Labeling of Tetrazine-Bearing Proteins via Cyclopropanone-Caged Bicyclononynes. <i>Angewandte Chemie</i> , 2019, 131, 16023-16029.	2.0	13
14	Installing Terminal-Alkyne Reactivity into Proteins in Engineered Bacteria. <i>Biochemistry</i> , 2019, 58, 2703-2705.	2.5	2
15	Genetically Encoded Biotin Analogues: Incorporation and Application in Bacterial and Mammalian Cells. <i>ChemBioChem</i> , 2019, 20, 1795-1798.	2.6	1
16	Expanding the genetic code with a lysine derivative bearing an enzymatically removable phenylacetyl group. <i>Chemical Communications</i> , 2019, 55, 4793-4796.	4.1	8
17	Site-specific ubiquitylation and SUMOylation using genetic-code expansion and sortase. <i>Nature Chemical Biology</i> , 2019, 15, 276-284.	8.0	96
18	Building Peptide Bonds in Haifa: The Seventh Chemical Protein Synthesis (CPS) Meeting. <i>ChemBioChem</i> , 2018, 19, 115-120.	2.6	2

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19	Expanding the Genetic Code to Study Proteinâ€“Protein Interactions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14350-14361.	13.8	84
20	Expanding the Genetic Code to Study Proteinâ€“Protein Interactions. <i>Angewandte Chemie</i> , 2018, 130, 14548-14559.	2.0	13
21	CHAPTER 5.2. Genetic Code Expansion Approaches to Introduce Artificial Covalent Bonds into Proteins <i>In Vivo</i>. <i>Chemical Biology</i> , 2018, , 399-420.	0.2	0
22	Biochemie 2016: Chemie bringt Zellen im Innern zum Leuchten. <i>Nachrichten Aus Der Chemie</i> , 2017, 65, 305-309.	0.0	0
23	Tetrazines in Inverse-Electron-Demand Dielsâ€“Alder Cycloadditions and Their Use in Biology. <i>Synthesis</i> , 2017, 49, 830-848.	2.3	62
24	ProximitÃ¤tsvermittelte kovalente Stabilisierung niedrigâ€“affiner Proteinkomplexe inâ€...vitro und inâ€...vivo. <i>Angewandte Chemie</i> , 2017, 129, 15943-15947.	2.0	14
25	Proximityâ€“Triggered Covalent Stabilization of Lowâ€“Affinity Protein Complexes In Vitro and In Vivo. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15737-15741.	13.8	56
26	Chemie in lebenden Systemen. <i>Nachrichten Aus Der Chemie</i> , 2016, 64, 301-305.	0.0	1
27	Selective, rapid and optically switchable regulation of protein function in live mammalian cells. <i>Nature Chemistry</i> , 2015, 7, 554-561.	13.6	136
28	Genetic Encoding of Unnatural Amino Acids for Labeling Proteins. <i>Methods in Molecular Biology</i> , 2015, 1266, 217-228.	0.9	18
29	Site-Specific Glycoconjugation of Protein via Bioorthogonal Tetrazine Cycloaddition with a Genetically Encoded <i>trans</i>-Cyclooctene or Bicyclononyne. <i>Bioconjugate Chemistry</i> , 2015, 26, 802-806.	3.6	39
30	Genetic Code Expansion Enables Live-Cell and Super-Resolution Imaging of Site-Specifically Labeled Cellular Proteins. <i>Journal of the American Chemical Society</i> , 2015, 137, 4602-4605.	13.7	152
31	Optimized orthogonal translation of unnatural amino acids enables spontaneous protein double-labelling and FRET. <i>Nature Chemistry</i> , 2014, 6, 393-403.	13.6	233
32	Cellular Incorporation of Unnatural Amino Acids and Bioorthogonal Labeling of Proteins. <i>Chemical Reviews</i> , 2014, 114, 4764-4806.	47.7	861
33	4â€“O-substitutions determine selectivity of aminoglycoside antibiotics. <i>Nature Communications</i> , 2014, 5, 3112.	12.8	68
34	Bioorthogonal Reactions for Labeling Proteins. <i>ACS Chemical Biology</i> , 2014, 9, 16-20.	3.4	467
35	Proteome labeling and protein identification in specific tissues and at specific developmental stages in an animal. <i>Nature Biotechnology</i> , 2014, 32, 465-472.	17.5	161
36	Shining a light into live cells. <i>Nature Chemistry</i> , 2013, 5, 81-82.	13.6	9

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37	Dissociation of antibacterial activity and aminoglycoside ototoxicity in the 4-monosubstituted 2-deoxystreptamine apramycin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10984-10989.	7.1	185
38	Genetically encoded norbornene directs site-specific cellular protein labelling via a rapid bioorthogonal reaction. <i>Nature Chemistry</i> , 2012, 4, 298-304.	13.6	424
39	Expanding the genetic code of <i>Drosophila melanogaster</i> . <i>Nature Chemical Biology</i> , 2012, 8, 748-750.	8.0	177
40	Genetic Encoding of Bicyclonynes and <i>i>trans</i> -Cyclooctenes for Site-Specific Protein Labeling in Vitro and in Live Mammalian Cells via Rapid Fluorogenic Diels-Alder Reactions. <i>Journal of the American Chemical Society</i> , 2012, 134, 10317-10320.	13.7	456
41	Traceless and Site-Specific Ubiquitination of Recombinant Proteins. <i>Journal of the American Chemical Society</i> , 2011, 133, 10708-10711.	13.7	161
42	Structural basis for 16S ribosomal RNA cleavage by the cytotoxic domain of colicin E3. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 1241-1246.	8.2	44
43	A fast selenium derivatization strategy for crystallization and phasing of RNA structures. <i>Rna</i> , 2009, 15, 707-715.	3.5	47
44	Evidence for Pseudoknot Formation of Class I preQ ₁ Riboswitch Aptamers. <i>ChemBioChem</i> , 2009, 10, 1141-1144.	2.6	39
45	Binding of Aminoglycoside Antibiotics to the Duplex Form of the HIV-1 Genomic RNA Dimerization Initiation Site. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4110-4113.	13.8	40
46	The Role of 23S Ribosomal RNA Residue A2451 in Peptide Bond Synthesis Revealed by Atomic Mutagenesis. <i>Chemistry and Biology</i> , 2008, 15, 485-492.	6.0	88
47	The preparation of site-specifically modified riboswitch domains as an example for enzymatic ligation of chemically synthesized RNA fragments. <i>Nature Protocols</i> , 2008, 3, 1457-1466.	12.0	81
48	Chemical synthesis in RNA research: from riboswitch to ribosome function. , 2008, , .	0	
49	Ligand-induced folding of the thiM TPP riboswitch investigated by a structure-based fluorescence spectroscopic approach. <i>Nucleic Acids Research</i> , 2007, 35, 5370-5378.	14.5	146
50	Ligand-Induced Folding of the Adenosine Deaminase A-Riboswitch and Implications on Riboswitch Translational Control. <i>ChemBioChem</i> , 2007, 8, 896-902.	2.6	167
51	Efficient Ribosomal Peptidyl Transfer Critically Relies on the Presence of the Ribose 2'-OH at A2451 of 23S rRNA. <i>Journal of the American Chemical Society</i> , 2006, 128, 4453-4459.	13.7	83
52	Synthesis, Oxidation Behavior, Crystallization and Structure of 2'-Methylseleno Guanosine Containing RNAs. <i>Journal of the American Chemical Society</i> , 2006, 128, 9909-9918.	13.7	68
53	Preparation of 2'-Deoxy-2'-Methylseleno Modified Phosphoramidites and RNA. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2006, 27, Unit 1.15.	0.5	5
54	Chemical engineering of the peptidyl transferase center reveals an important role of the 2'-hydroxyl group of A2451. <i>Nucleic Acids Research</i> , 2005, 33, 1618-1627.	14.5	75

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55	Syntheses of RNAs with up to 100 Nucleotides Containing Site-Specific 2'-Methylseleno Labels for Use in X-ray Crystallography. <i>Journal of the American Chemical Society</i> , 2005, 127, 12035-12045.	13.7	98
56	Substrate profiling of mitochondrial caseinolytic protease P via a site-specific photocrosslinking approach. <i>Angewandte Chemie</i> , 0, , .	2.0	2