

Heinz Neumann

List of Publications by Year in descending order

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43
papers

4,291
citations

236925

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254184

43
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46
all docs

46
docs citations

46
times ranked

6819
citing authors

#	ARTICLE	IF	CITATIONS
1	Encoding multiple unnatural amino acids via evolution of a quadruplet-decoding ribosome. <i>Nature</i> , 2010, 464, 441-444.	27.8	559
2	Genetically encoding N ^ε -acetyllysine in recombinant proteins. <i>Nature Chemical Biology</i> , 2008, 4, 232-234.	8.0	530
3	A Method for Genetically Installing Site-Specific Acetylation in Recombinant Histones Defines the Effects of H3 K56 Acetylation. <i>Molecular Cell</i> , 2009, 36, 153-163.	9.7	453
4	Genetic Encoding and Labeling of Aliphatic Azides and Alkynes in Recombinant Proteins via a Pyrrolysyl-tRNA Synthetase/tRNA ^{CUA} Pair and Click Chemistry. <i>Journal of the American Chemical Society</i> , 2009, 131, 8720-8721.	13.7	285
5	Evolved orthogonal ribosomes enhance the efficiency of synthetic genetic code expansion. <i>Nature Biotechnology</i> , 2007, 25, 770-777.	17.5	272
6	Catalytic Core of a Membrane-Associated Eukaryotic Polyphosphate Polymerase. <i>Science</i> , 2009, 324, 513-516.	12.6	264
7	A Cascade of Histone Modifications Induces Chromatin Condensation in Mitosis. <i>Science</i> , 2014, 343, 77-80.	12.6	223
8	MprF-mediated biosynthesis of lysylphosphatidylglycerol, an important determinant in staphylococcal defensin resistance. <i>FEMS Microbiology Letters</i> , 2004, 231, 67-71.	1.8	165
9	Genetically Encoding N ^ε -Methyl-lysine in Recombinant Histones. <i>Journal of the American Chemical Society</i> , 2009, 131, 14194-14195.	13.7	151
10	Dynamic and flexible H3K9me3 bridging via HP1 ² dimerization establishes a plastic state of condensed chromatin. <i>Nature Communications</i> , 2016, 7, 11310.	12.8	115
11	Chromosome condensation and decondensation during mitosis. <i>Current Opinion in Cell Biology</i> , 2016, 40, 15-22.	5.4	106
12	The Vacuolar Transporter Chaperone (VTC) Complex Is Required for Microautophagy. <i>Molecular Biology of the Cell</i> , 2007, 18, 166-175.	2.1	105
13	Genetically Encoding Protein Oxidative Damage. <i>Journal of the American Chemical Society</i> , 2008, 130, 4028-4033.	13.7	104
14	Acetylation regulates Cyclophilin A catalysis, immunosuppression and HIV isomerization. <i>Nature Chemical Biology</i> , 2010, 6, 331-337.	8.0	102
15	Role of the Vtc proteins in V-ATPase stability and membrane trafficking. <i>Journal of Cell Science</i> , 2003, 116, 1107-1115.	2.0	90
16	The use of unnatural amino acids to study and engineer protein function. <i>Current Opinion in Structural Biology</i> , 2016, 38, 119-128.	5.7	90
17	De Novo Generation of Mutually Orthogonal Aminoacyl-tRNA Synthetase/tRNA Pairs. <i>Journal of the American Chemical Society</i> , 2010, 132, 2142-2144.	13.7	79
18	Rewiring translation – Genetic code expansion and its applications. <i>FEBS Letters</i> , 2012, 586, 2057-2064.	2.8	76

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19	The H2B ubiquitin ligase RNF40 cooperates with SUPT16H to induce dynamic changes in chromatin structure during DNA double-strand break repair. <i>Cell Cycle</i> , 2011, 10, 3495-3504.	2.6	68
20	Synthetic biology approaches in drug discovery and pharmaceutical biotechnology. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 75-86.	3.6	49
21	Genetically Encoding Lysine Modifications on Histone H4. <i>ACS Chemical Biology</i> , 2015, 10, 939-944.	3.4	46
22	A Helical Region in the C Terminus of Small-conductance Ca ²⁺ -activated K ⁺ Channels Controls Assembly with Apo-calmodulin. <i>Journal of Biological Chemistry</i> , 2002, 277, 4558-4564.	3.4	40
23	Axial contraction and short-range compaction of chromatin synergistically promote mitotic chromosome condensation. <i>ELife</i> , 2015, 4, e1039.	6.0	37
24	Antibody- and TRIM21-dependent intracellular restriction of <i>Salmonella enterica</i> . <i>Pathogens and Disease</i> , 2014, 72, n/a-n/a.	2.0	29
25	Organelle size control: Accumulating vacuole content activates SNAREs to augment organelle volume by homotypic fusion. <i>Journal of Cell Science</i> , 2016, 129, 2817-28.	2.0	29
26	Metabolically controlled histone H4K5 acylation/acetylation ratio drives BRD4 genomic distribution. <i>Cell Reports</i> , 2021, 36, 109460.	6.4	27
27	<i>In Vivo</i> Mapping of FACT-Histone Interactions Identifies a Role of Pob3 C-terminus in H2A-H2B Binding. <i>ACS Chemical Biology</i> , 2015, 10, 2753-2763.	3.4	25
28	MD Simulations and FRET Reveal an Environment-Sensitive Conformational Plasticity of Importin- β . <i>Biophysical Journal</i> , 2015, 109, 277-286.	0.5	23
29	Evolved, Selective Erasers of Distinct Lysine Acylations. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11142-11149.	13.8	20
30	Epigenetic chromatin modification by amber suppression technology. <i>Current Opinion in Chemical Biology</i> , 2018, 45, 1-9.	6.1	19
31	Optimized Plasmid Systems for the Incorporation of Multiple Different Unnatural Amino Acids by Evolved Orthogonal Ribosomes. <i>ChemBioChem</i> , 2014, 15, 1800-1804.	2.6	17
32	Partial Immunoblotting of 2D-Gels: A Novel Method to Identify Post-Translationally Modified Proteins Exemplified for the Myelin Acetylome. <i>Proteomes</i> , 2017, 5, 3.	3.5	15
33	Highly Sensitive Lysine Deacetylase Assay Based on Acetylated Firefly Luciferase. <i>Biochemistry</i> , 2018, 57, 3552-3555.	2.5	12
34	Interaction of RSC Chromatin Remodeling Complex with Nucleosomes Is Modulated by H3 K14 Acetylation and H2B SUMOylation <i>In Vivo</i> . <i>IScience</i> , 2020, 23, 101292.	4.1	12
35	Genetic Code Expansion Tools to Study Lysine Acylation. <i>Advanced Biology</i> , 2021, 5, e2100926.	2.5	12
36	14-3-3 Protein Bmh1 triggers short-range compaction of mitotic chromosomes by recruiting sirtuin deacetylase Hst2. <i>Journal of Biological Chemistry</i> , 2021, 296, 100078.	3.4	11

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37	Discovery of Dihydro-1,4-Benzoxazine Carboxamides as Potent and Highly Selective Inhibitors of Sirtuin-1. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 5838-5849.	6.4	11
38	Cellular substrate limitations of lysine acetylation turnover by sirtuins investigated with engineered futile cycle enzymes. <i>Metabolic Engineering</i> , 2018, 47, 453-462.	7.0	8
39	Trapping Chromatin Interacting Proteins with Genetically Encoded, UV-Activatable Crosslinkers In Vivo. <i>Methods in Molecular Biology</i> , 2018, 1728, 247-262.	0.9	4
40	Evolvierte, selektive Eraser für spezifische Lysinacylierungen. <i>Angewandte Chemie</i> , 2020, 132, 11236-11243.	2.0	3
41	Spanning the gap: unraveling RSC dynamics in vivo. <i>Current Genetics</i> , 2021, 67, 399-406.	1.7	3
42	Bypassing Kinase Signaling in Mammalian Cells. <i>Cell Chemical Biology</i> , 2018, 25, 1051-1053.	5.2	1
43	A Directed Evolution System for Lysine Deacetylases. <i>Methods in Molecular Biology</i> , 2021, 2247, 319-337.	0.9	1