

Elmar Weinhold

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5497446/publications.pdf>

Version: 2024-02-01

66
papers

3,105
citations

126907

33
h-index

161849

54
g-index

75
all docs

75
docs citations

75
times ranked

2643
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemoenzymatic labeling of DNA methylation patterns for single-molecule epigenetic mapping. <i>Nucleic Acids Research</i> , 2022, 50, e92-e92.	14.5	16
2	Electrical DNA Sequence Mapping Using Oligodeoxynucleotide Labels and Nanopores. <i>ACS Nano</i> , 2021, 15, 2679-2685.	14.6	22
3	DNA modification and visualization on an origami-based enzyme nano-factory. <i>Nanoscale</i> , 2021, 13, 2465-2471.	5.6	6
4	Lysine Ethylation by Histone Lysine Methyltransferases. <i>ChemBioChem</i> , 2020, 21, 392-400.	2.6	9
5	Label as you fold: methyltransferase-assisted functionalization of DNA nanostructures. <i>Nanoscale</i> , 2020, 12, 20287-20291.	5.6	9
6	Quantitative Formation of Monomeric Gâ€œQuadruplex DNA from Multimeric Structures of câ€œMyc Promoter Sequence. <i>ChemBioChem</i> , 2020, 21, 2445-2448.	2.6	7
7	A vitamin-C-derived DNA modification catalysed by an algal TET homologue. <i>Nature</i> , 2019, 569, 581-585.	27.8	72
8	Long-read single-molecule maps of the functional methylome. <i>Genome Research</i> , 2019, 29, 646-656.	5.5	48
9	Evaluation of a Pretargeting Strategy for Molecular Imaging of the Prostate Stem Cell Antigen with a Single Chain Antibody. <i>Scientific Reports</i> , 2018, 8, 3755.	3.3	9
10	The N6-Position of Adenine Is a Blind Spot for TAL-Effectors That Enables Effective Binding of Methylated and Fluorophore-Labeled DNA. <i>ACS Chemical Biology</i> , 2017, 12, 1719-1725.	3.4	14
11	Lightâ€œEnhancing Plasmonicâ€œNanopore Biosensor for Superior Singleâ€œMolecule Detection. <i>Advanced Materials</i> , 2017, 29, 1605442.	21.0	90
12	Ionic Current-Based Mapping of Short Sequence Motifs in Single DNA Molecules Using Solid-State Nanopores. <i>Nano Letters</i> , 2017, 17, 5199-5205.	9.1	56
13	Fine Tuning Antibody Conjugation Methods using SNAP-tag Technology. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2017, 17, 1434-1440.	1.7	3
14	Single-Molecule DNA Methylation Quantification Using Electro-optical Sensing in Solid-State Nanopores. <i>ACS Nano</i> , 2016, 10, 8861-8870.	14.6	72
15	Super-Resolution Genome Mapping in Silicon Nanochannels. <i>ACS Nano</i> , 2016, 10, 9823-9830.	14.6	49
16	The lncRNA HOTAIR impacts on mesenchymal stem cells<i>via</i>triple helix formation. <i>Nucleic Acids Research</i> , 2016, 44, 10631-10643.	14.5	141
17	A 7-Deazaadenosylaziridine Cofactor for Sequence-Specific Labeling of DNA by the DNA Cytosine-C5 Methyltransferase M.HhaI. <i>Molecules</i> , 2015, 20, 20805-20822.	3.8	13
18	Bacteriophage strain typing by rapid single molecule analysis. <i>Nucleic Acids Research</i> , 2015, 43, e117-e117.	14.5	61

#	ARTICLE	IF	CITATIONS
19	Reversibly locked thionucleobase pairs in DNA to study base flipping enzymes. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 2293-2306.	2.2	4
20	Toward Single-Molecule Optical Mapping of the Epigenome. <i>ACS Nano</i> , 2014, 8, 14-26.	14.6	42
21	Sequence-specific Labeling of Nucleic Acids and Proteins with Methyltransferases and Cofactor Analogues. <i>Journal of Visualized Experiments</i> , 2014, , e52014.	0.3	17
22	Programmable sequence-specific click-labeling of RNA using archaeal box C/D RNP methyltransferases. <i>Nucleic Acids Research</i> , 2012, 40, 6765-6773.	14.5	90
23	Enzymatically Incorporated Genomic Tags for Optical Mapping of DNA-Binding Proteins (<i>Angew. Chem.</i> 15/2012). <i>Angewandte Chemie</i> , 2012, 124, 3786-3786.	2.0	0
24	Enzymatically Incorporated Genomic Tags for Optical Mapping of DNA-Binding Proteins. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3578-3581.	13.8	40
25	Back Cover: Enzymatically Incorporated Genomic Tags for Optical Mapping of DNA-Binding Proteins (<i>Angew. Chem. Int. Ed.</i> 15/2012). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3724-3724.	13.8	0
26	A Selenium-Based Click AdoMet Analogue for Versatile Substrate Labeling with Wild-Type Protein Methyltransferases. <i>ChemBioChem</i> , 2012, 13, 1167-1173.	2.6	89
27	Profiling of Methyltransferases and Other S-Adenosyl-L-Homocysteine-Binding Proteins by Capture Compound Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2012, 803, 97-125.	0.9	7
28	Sequence-specific covalent labelling of DNA. <i>Biochemical Society Transactions</i> , 2011, 39, 623-628.	3.4	23
29	Expanding the chemical scope of RNA:methyltransferases to site-specific alkylation of RNA for click labeling. <i>Nucleic Acids Research</i> , 2011, 39, 1943-1952.	14.5	114
30	Profiling of Methyltransferases and Other S-adenosyl-L-homocysteine-binding Proteins by Capture Compound Mass Spectrometry (CCMS). <i>Journal of Visualized Experiments</i> , 2010, , .	0.3	11
31	Synthesis of S-Adenosyl-L-homocysteine Capture Compounds for Selective Photoinduced Isolation of Methyltransferases. <i>ChemBioChem</i> , 2010, 11, 256-265.	2.6	66
32	Enzymatic Site-Specific Functionalization of Protein Methyltransferase Substrates with Alkynes for Click Labeling. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5170-5173.	13.8	120
33	Functional Reassembly of Split Enzymes On-Site: A Novel Approach for Highly Sequence-Specific Targeted DNA Methylation. <i>ChemBioChem</i> , 2008, 9, 351-353.	2.6	7
34	6-Thioguanine in DNA as CD spectroscopic probe to study local structural changes upon protein binding. <i>Chirality</i> , 2008, 20, 978-984.	2.6	8
35	Sequence-specific Methyltransferase-Induced Labelling (SMILing) of plasmid DNA for studying cell transfection. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 40-48.	3.0	27
36	Persistent downregulation of the pancarcinoma-associated epithelial cell adhesion molecule <i>via</i> active intranuclear methylation. <i>International Journal of Cancer</i> , 2008, 123, 484-489.	5.1	19

#	ARTICLE	IF	CITATIONS
37	Enzyme-Directed Positioning of Nanoparticles on Large DNA Templates. <i>Bioconjugate Chemistry</i> , 2008, 19, 476-479.	3.6	21
38	Molecular Scale Architecture: Engineered Three- And Four-Way Junctions. <i>Bioconjugate Chemistry</i> , 2008, 19, 470-475.	3.6	14
39	Selective recognition of pyrimidine-pyrimidine DNA mismatches by distance-constrained macrocyclic bis-intercalators. <i>Nucleic Acids Research</i> , 2008, 36, 5000-5012.	14.5	38
40	Targeted Labeling of DNA by Methyltransferase-Directed Transfer of Activated Groups (mTAG). <i>Journal of the American Chemical Society</i> , 2007, 129, 2758-2759.	13.7	110
41	2-Aminopurine Flipped into the Active Site of the Adenine-Specific DNA Methyltransferase M.TaqI: Crystal Structures and Time-Resolved Fluorescence. <i>Journal of the American Chemical Society</i> , 2007, 129, 6240-6248.	13.7	49
42	Quantitative Labeling of Long Plasmid DNA with Nanometer Precision. <i>ChemBioChem</i> , 2007, 8, 1516-1519.	2.6	26
43	A new tool for biotechnology: AdoMet-dependent methyltransferases. <i>Trends in Biotechnology</i> , 2007, 25, 99-104.	9.3	106
44	Serum insensitive, intranuclear protein delivery by the multipurpose cationic lipid Saint-2. <i>Journal of Controlled Release</i> , 2007, 123, 228-238.	9.9	35
45	Organische Chemie 2005. <i>Nachrichten Aus Der Chemie</i> , 2006, 54, 241-264.	0.0	0
46	Direct transfer of extended groups from synthetic cofactors by DNA methyltransferases. <i>Nature Chemical Biology</i> , 2006, 2, 31-32.	8.0	209
47	Synthesis of S-adenosyl-L-methionine analogs and their use for sequence-specific transalkylation of DNA by methyltransferases. <i>Nature Protocols</i> , 2006, 1, 1879-1886.	12.0	86
48	Sequence-Specific DNA Labeling Using Methyltransferases. , 2004, 283, 145-162.		10
49	Sequence-specific Methyltransferase-Induced Labeling of DNA (SMILing DNA). <i>ChemBioChem</i> , 2004, 5, 265-269.	2.6	68
50	Organische Chemie 2003. <i>Nachrichten Aus Der Chemie</i> , 2004, 52, 267-291.	0.0	0
51	DNA Mismatch-Specific Base Flipping by a Bisacridine Macrocyclic. <i>ChemBioChem</i> , 2003, 4, 1326-1331.	2.6	32
52	Polycyclic Aromatic DNA-Base Surrogates: High-Affinity Binding to an Adenine-Specific Base-Flipping DNA Methyltransferase. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3958-3960.	13.8	69
53	The stability of pseudopeptides bearing sulfoximines as chiral backbone modifying element towards proteinase K. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 3207-3211.	2.2	43
54	Design of a New Fluorescent Cofactor for DNA Methyltransferases and Sequence-Specific Labeling of DNA. <i>Journal of the American Chemical Society</i> , 2003, 125, 3486-3492.	13.7	66

#	ARTICLE	IF	CITATIONS
55	Convenient Synthesis of Oligodeoxynucleotides Containing 2-Deoxy-6-thioinosine. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2003, 22, 635-639.	1.1	2
56	Organische Chemie 2002. <i>Nachrichten Aus Der Chemie</i> , 2003, 51, 286-315.	0.0	3
57	Structure of the N6-adenine DNA methyltransferase M.TaqI in complex with DNA and a cofactor analog. <i>Nature Structural Biology</i> , 2001, 8, 121-125.	9.7	212
58	The Mechanism of DNA Cytosine-5 Methylation. <i>Journal of Biological Chemistry</i> , 2001, 276, 20924-20934.	3.4	110
59	Efficient Synthesis of S-Adenosyl-L-Homocysteine Natural Product Analogues and Their Use to Elucidate the Structural Determinant for Cofactor Binding of the DNA Methyltransferase M.HhaI. <i>European Journal of Organic Chemistry</i> , 2000, 2000, 549-555.	2.4	37
60	Functional Roles of the Conserved Threonine 250 in the Target Recognition Domain of HhaI DNA Methyltransferase. <i>Journal of Biological Chemistry</i> , 2000, 275, 38722-38730.	3.4	66
61	Identification of the Binding Site for the Extrahelical Target Base in N6-Adenine DNA Methyltransferases by Photo-cross-linking with Duplex Oligodeoxyribonucleotides Containing 5-Iodouracil at the Target Position. <i>Journal of Biological Chemistry</i> , 1999, 274, 15066-15072.	3.4	27
62	Functional Roles of the Conserved Aromatic Amino Acid Residues at Position 108 (Motif IV) and Position 196 (Motif VIII) in Base Flipping and Catalysis by the N6-Adenine DNA Methyltransferase from <i>Thermus aquaticus</i> . <i>Biochemistry</i> , 1999, 38, 1426-1434.	2.5	53
63	Higher Binding Affinity of Duplex Oligodeoxynucleotides Containing 1,2-Dideoxy-D-Ribose to The N6-Adenine DNA Methyltransferase M.TaqI Supports a Base Flipping Mechanism. <i>Nucleosides & Nucleotides</i> , 1999, 18, 1355-1358.	0.5	3
64	Coupling of a Nucleoside with DNA by a Methyltransferase. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 2888-2891.	13.8	44
65	Differential binding of S-adenosylmethionine S-adenosylhomocysteine and Sinefungin to the adenine-specific DNA methyltransferase M. Taq I I Edited by T. Richmond. <i>Journal of Molecular Biology</i> , 1997, 265, 56-67.	4.2	113
66	S-Adenosyl-L-Methionine and Related Compounds. , 0, , 223-247.		4