Thomas Carell

List of Publications by Year
in descending order

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329	21,454	9254 74	12933 131
papers	citations	h-index	g-index

407	407	407	18435
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	¹H NMR Chemical Exchange Techniques Reveal Local and Global Effects of Oxidized Cytosine Derivatives. ACS Physical Chemistry Au, 2022, 2, 237-246.	1.9	5
2	tRNA modification profiles in obligate and moderate thermophilic bacilli. Extremophiles, 2022, 26, 11.	0.9	1
3	Epigenetic Antiâ€Cancer Treatment With a Stabilized Carbocyclic Decitabine Analogue. Chemistry - A European Journal, 2022, 28, .	1.7	3
4	Chemical Synthesis of the Fluorescent, Cyclic Dinucleotides cthGAMP. ChemBioChem, 2022, 23, .	1.3	7
5	A prebiotically plausible scenario of an RNAâ€“peptide world. Nature, 2022, 605, 279-284.	13.7	68
6	Quantification of and Its Oxidized Derivatives Using LC-MS. Methods in Molecular Biology, 2021, 2272, 77-94.	0.4	0
7	FranÃ§ois Diederich (1952â€“2020): 40â€…Jahre Organische Chemie. Angewandte Chemie, 2021, 133, 11666-11671.	1.6	0
8	Targeting the nucleotide salvage factor DNPH1 sensitizes BRCA -deficient cells to PARP inhibitors. Science, 2021, 372, 156-165.	6.0	68
9	FranÃ§ois Diederich (1952â€“2020): 40 Years of Organic Chemistry. Angewandte Chemie - International Edition, 2021, 60, 11562-11567.	7.2	0
10	5â€Hydroxymethylâ€, 5â€Formylâ€and 5â€Carboxydeoxycytidines as Oxidative Lesions and Epigenetic Marks. Chemistry - A European Journal, 2021, 27, 8100-8104.	1.7	6
11	TENT4A Non-Canonical Poly(A) Polymerase Regulates DNA-Damage Tolerance via Multiple Pathways That Are Mutated in Endometrial Cancer. International Journal of Molecular Sciences, 2021, 22, 6957.	1.8	9
12	Deformylierung von 5â€Formylcytidin in unterschiedlichen Zelltypen. Angewandte Chemie, 2021, 133, 17005-17010.	1.6	2
13	Deformylation of 5â€Formylcytidine in Different Cell Types. Angewandte Chemie - International Edition, 2021, 60, 16869-16873.	7.2	8
14	Redirected nuclear glutamate dehydrogenase supplies Tet3 with Î±-ketoglutarate in neurons. Nature Communications, 2021, 12, 4100.	5.8	7
15	Comparative Nucleosomal Reactivity of 5â€Formylâ€Uridine and 5â€Formylâ€Cytidine. Chemistry - A European Journal, 2021, 27, 12747-12752.	1.7	8
16	Biomimetic Iron Complex Achieves TET Enzyme Reactivity**. Angewandte Chemie, 2021, 133, 21627-21633.	1.6	2
17	Biomimetic Iron Complex Achieves TET Enzyme Reactivity**. Angewandte Chemie - International Edition, 2021, 60, 21457-21463.	7.2	11
18	Intragenomic Decarboxylation of 5â€Carboxyâ€2â€²â€deoxycytidine. Angewandte Chemie - International Edition, 2021, 60, 23207-23211.	7.2	10

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19	Intragenomische Decarboxylierung von 5â€Carboxyâ€2â€²â€desoxycytidin. Angewandte Chemie, 2021, 133, 23394-23	1.6	0
20	The cGMP-Dependent Protein Kinase 2 Contributes to Cone Photoreceptor Degeneration in the Cnga3-Deficient Mouse Model of Achromatopsia. International Journal of Molecular Sciences, 2021, 22, 52.	1.8	11
21	Direct and Base Excision Repair-Mediated Regulation of a GC-Rich cis-Element in Response to 5-Formylcytosine and 5-Carboxycytosine. International Journal of Molecular Sciences, 2021, 22, 11025.	1.8	1
22	Unified Description of Ultrafast Excited State Decay Processes in Epigenetic Deoxycytidine Derivatives. Journal of Physical Chemistry Letters, 2021, 12, 11070-11077.	2.1	4
23	Synthesis and structure elucidation of the human tRNA nucleoside mannosyl-queuosine. Nature Communications, 2021, 12, 7123.	5.8	10
24	A Clickâ€Chemistryâ€Based Enrichable Crosslinker for Structural and Protein Interaction Analysis by Mass Spectrometry. ChemBioChem, 2020, 21, 103-107.	1.3	11
25	When Did Life Likely Emerge on Earth in an RNAâ€First Process?. ChemSystemsChem, 2020, 2, e1900035.	1.1	71
26	Distinct and stage-specific contributions of TET1 and TET2 to stepwise cytosine oxidation in the transition from naive to primed pluripotency. Scientific Reports, 2020, 10, 12066.	1.6	13
27	Impact of 5-formylcytosine on the melting kinetics of DNA by 1H NMR chemical exchange. Nucleic Acids Research, 2020, 48, 8796-8807.	6.5	9
28	Recent evolution of a TET-controlled and DPPA3/STELLA-driven pathway of passive DNA demethylation in mammals. Nature Communications, 2020, 11, 5972.	5.8	38
29	Active turnover of genomic methylcytosine in pluripotent cells. Nature Chemical Biology, 2020, 16, 1411-1419.	3.9	29
30	A Click Chemistry Approach to Developing Molecularly Targeted DNA Scissors. Chemistry - A European Journal, 2020, 26, 16782-16792.	1.7	23
31	DNA hydroxymethylation is associated with disease severity and persists at enhancers of oncogenic regions in multiple myeloma. Clinical Epigenetics, 2020, 12, 163.	1.8	9
32	Amino Acid Modified RNA Bases as Building Blocks of an Early Earth RNAâ€Peptide World. Chemistry - A European Journal, 2020, 26, 14856-14860.	1.7	14
33	Supersensitive Multifluorophore RNAâ€FISH for Early Virus Detection and Flowâ€FISH by Using Click Chemistry. ChemBioChem, 2020, 21, 2214-2218.	1.3	5
34	Synthesis of Galactosylâ€Queuosine and Distribution of Hypermodified Qâ€Nucleosides in Mouse Tissues. Angewandte Chemie - International Edition, 2020, 59, 12352-12356.	7.2	20
35	Synthese von Galaktosylâ€Queuosin und Verteilung von hypermodifizierten Qâ€Nukleosiden in Mausgeweben. Angewandte Chemie, 2020, 132, 12451-12455.	1.6	0
36	Single molecule analysis reveals monomeric XPA bends DNA and undergoes episodic linear diffusion during damage search. Nature Communications, 2020, 11, 1356.	5.8	16

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37	From Scientists to Scientistsâ€"Moving Angewandte into the Future. Angewandte Chemie, 2020, 132, 12648-12649.	1.6	4
38	From Scientists to Scientistsâ€"Moving Angewandte into the Future. Angewandte Chemie - International Edition, 2020, 59, 12548-12549.	7.2	15
39	Analyse des aktiven Deformylierungsmechanismus von 5â€Formylâ€2â€²â€Desoxycytidin in Stammzellen. Angewandte Chemie, 2020, 132, 5639-5643.	1.6	7
40	Synthesis and Incorporation of ƙ 2 U into RNA. Helvetica Chimica Acta, 2020, 103, e2000016.	1.0	1
41	Chemoenzymatic Preparation of Functional Clickâ€Labeled Messenger RNA. ChemBioChem, 2020, 21, 1641-1646.	1.3	15
42	Analysis of an Active Deformylation Mechanism of 5â€Formylâ€deoxycytidine (fdC) in Stem Cells. Angewandte Chemie - International Edition, 2020, 59, 5591-5594.	7.2	27
43	Influencing Epigenetic Information with a Hydrolytically Stable Carbocyclic 5â€Azaâ€2â€²â€deoxycytidine. Angewandte Chemie, 2019, 131, 13118-13121.	1.6	1
44	Tripletâ€Induced Lesion Formation at CpT and TpC Sites in DNA. Chemistry - A European Journal, 2019, 25, 15164-15172.	1.7	12
45	Protoâ€Ureaâ€RNA (WÃ¶hler RNA) Containing Unusually Stable Urea Nucleosides. Angewandte Chemie, 2019, 131, 18864-18869.	1.6	7
46	Protoâ€Ureaâ€RNA (WÃ¶hler RNA) Containing Unusually Stable Urea Nucleosides. Angewandte Chemie - International Edition, 2019, 58, 18691-18696.	7.2	16
47	Unified prebiotically plausible synthesis of pyrimidine and purine RNA ribonucleotides. Science, 2019, 366, 76-82.	6.0	183
48	A one-pot, water compatible synthesis of pyrimidine nucleobases under plausible prebiotic conditions. Chemical Communications, 2019, 55, 1939-1942.	2.2	22
49	Influencing Epigenetic Information with a Hydrolytically Stable Carbocyclic 5â€Azaâ€2â€²â€deoxycytidine. Angewandte Chemie - International Edition, 2019, 58, 12984-12987.	7.2	11
50	Nucleotide excision repair of abasic DNA lesions. Nucleic Acids Research, 2019, 47, 8537-8547.	6.5	31
51	Labelâ€Free Quantification of 5â€Azacytidines Directly in the Genome. Helvetica Chimica Acta, 2019, 102, e1800229.	1.0	7
52	TLR8 Is a Sensor of RNase T2 Degradation Products. Cell, 2019, 179, 1264-1275.e13.	13.5	113
53	Synthesis of an acp3U phosphoramidite and incorporation of the hypermodified base into RNA. Chemical Communications, 2019, 55, 12216-12218.	2.2	6
54	Isotope-dilution mass spectrometry for exact quantification of noncanonical DNA nucleosides. Nature Protocols, 2019, 14, 283-312.	5.5	48

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55	A Clickâ€Chemistry Linked 2â€²3â€²â€cGAMP Analogue. Chemistry - A European Journal, 2019, 25, 2089-2095.	1.7	16
56	Nichtâ€kanonische RNAâ€Nukleoside als molekulare Fossilien einer frÃ¼hen Erde â€“ Generierung durch prÃbiotische Methylierungen und Carbamoylierungen. Angewandte Chemie, 2018, 130, 6050-6054.	1.6	11
57	Wet-dry cycles enable the parallel origin of canonical and non-canonical nucleosides by continuous synthesis. Nature Communications, 2018, 9, 163.	5.8	103
58	Ein auf Sulfoxid basierendes, isobares Derivatisierungsreagens fÃ¼r die prÃzise quantitative Massenspektrometrie. Angewandte Chemie, 2018, 130, 3008-3013.	1.6	2
59	A Sulfoxideâ€Based Isobaric Labelling Reagent for Accurate Quantitative Mass Spectrometry. Angewandte Chemie - International Edition, 2018, 57, 2958-2962.	7.2	23
60	Noncanonical RNA Nucleosides as Molecular Fossils of an Early Earthâ€"Generation by Prebiotic Methylations and Carbamoylations. Angewandte Chemie - International Edition, 2018, 57, 5943-5946.	7.2	37
61	Nonâ€canonical Bases in the Genome: The Regulatory Information Layer in DNA. Angewandte Chemie - International Edition, 2018, 57, 4296-4312.	7.2	85
62	Nichtkanonische Basen im Genom: die regulative Informationsebene in der DNA. Angewandte Chemie, 2018, 130, 4377-4394.	1.6	14
63	5-Formylcytosine to cytosine conversion by Câ€“C bond cleavage in vivo. Nature Chemical Biology, 2018, 14, 72-78.	3.9	68
64	Non-canonical nucleosides and chemistry of the emergence of life. Nature Communications, 2018, 9, 5174.	5.8	19
65	ALKBH5-induced demethylation of mono- and dimethylated adenosine. Chemical Communications, 2018, 54, 8591-8593.	2.2	31
66	Chromatin-dependent allosteric regulation of DNMT3A activity by MeCP2. Nucleic Acids Research, 2018, 46, 9044-9056.	6.5	34
67	Rethinking the tools of the RNA world. ELife, 2018, 7, .	2.8	3
68	Structural Insights into the Recognition of N²â€Arylâ€and C8â€Aryl DNA Lesions by the Repair Protein XPA/Rad14. ChemBioChem, 2017, 18, 1379-1382.	1.3	6
69	The chemistries and consequences of DNA and RNA methylation and demethylation. RNA Biology, 2017, 14, 1099-1107.	1.5	105
70	Dendrimerâ€Based Signal Amplification of Clickâ€Labelled DNA in Situ. ChemBioChem, 2017, 18, 1716-1720.	1.3	10
71	Quantitative LCâ€“MS Provides No Evidence for m⁶dA or m⁴dC in the Genome of Mouse Embryonic Stem Cells and Tissues. Angewandte Chemie - International Edition, 2017, 56, 11268-11271.	7.2	112
72	Functional impacts of 5-hydroxymethylcytosine, 5-formylcytosine, and 5-carboxycytosine at a single hemi-modified CpG dinucleotide in a gene promoter. Nucleic Acids Research, 2017, 45, 11033-11042.	6.5	33

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73	Synthesis of RNA Containing 5â€Hydroxymethylâ€, 5â€Formylâ€, and 5â€Carboxycytidine. Chemistry - A European Journal, 2017, 23, 15894-15898.	1.7	7
74	5-Formyl- and 5-Carboxydeoxycytidines Do Not Cause Accumulation of Harmful Repair Intermediates in Stem Cells. Journal of the American Chemical Society, 2017, 139, 10359-10364.	6.6	52
75	Quantitative LCâ€MS liefert keinen Hinweis auf m⁶dA oder m⁴dC im Genom von Mausstammzellen und â€geweben. Angewandte Chemie, 2017, 129, 11422-11425.	1.6	6
76	N6-methyladenosine (m6A) recruits and repels proteins to regulate mRNA homeostasis. Nature Structural and Molecular Biology, 2017, 24, 870-878.	3.6	432
77	2â€²-(R)-Fluorinated mC, hmC, fC and caC triphosphates are substrates for DNA polymerases and TET-enzymes. Chemical Communications, 2016, 52, 14361-14364.	2.2	16
78	Molecular mechanisms of xeroderma pigmentosum (XP) proteins. Quarterly Reviews of Biophysics, 2016, 49, e5.	2.4	22
79	A high-yielding, strictly regioselective prebiotic purine nucleoside formation pathway. Science, 2016, 352, 833-836.	6.0	191
80	Siteâ€Specific Isotopeâ€Labeling of Inosine Phosphoramidites and NMR Analysis of an Inosineâ€Containing RNA Duplex. Chemistry - A European Journal, 2016, 22, 15350-15359.	1.7	9
81	5-Formylcytosin ist vermutlich eine semipermanente Base an definierten Genompositionen. Angewandte Chemie, 2016, 128, 11974-11978.	1.6	16
82	Synthesis of (R)-Configured 2â€²-Fluorinated mC, hmC, fC, and caC Phosphoramidites and Oligonucleotides. Organic Letters, 2016, 18, 4368-4371.	2.4	20
83	5-Formylcytosine Could Be a Semipermanent Base in Specific Genome Sites. Angewandte Chemie - International Edition, 2016, 55, 11797-11800.	7.2	60
84	Tumour hypoxia causes DNA hypermethylation by reducing TET activity. Nature, 2016, 537, 63-68.	13.7	521
85	Direct observation of a deoxyadenosyl radical in an active enzyme environment. FEBS Letters, 2016, 590, 4489-4494.	1.3	5
86	DNA hydroxymethylation controls cardiomyocyte gene expression in development and hypertrophy. Nature Communications, 2016, 7, 12418.	5.8	127
87	Bioorthogonal Chemistryâ€”Introduction and Overview. Topics in Current Chemistry Collections, 2016, , 5-25.	0.2	0
88	M. Vrabel and T. Carell for Cycloadditions in Bioorthogonal Chemistry. Topics in Current Chemistry, 2016, 374, 15.	3.0	3
89	UV-Induced Charge Transfer States in DNA Promote Sequence Selective Self-Repair. Journal of the American Chemical Society, 2016, 138, 186-190.	6.6	68
90	Genetically designed biomolecular capping system for mesoporous silica nanoparticles enables receptor-mediated cell uptake and controlled drug release. Nanoscale, 2016, 8, 8101-8110.	2.8	23

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91	Lewis Acid Triggered Regioselective Magnesiation and Zincation of Uracils, Uridines, and Cytidines. Organic Letters, 2016, 18, 1068-1071.	2.4	17
92	Bioorthogonal Chemistryâ€"Introduction and Overview. Topics in Current Chemistry, 2016, 374, 9.	3.0	36
93	Active DNA demethylation at enhancers during the vertebrate phylotypic period. Nature Genetics, 2016, 48, 417-426.	9.4	210
94	Ageâ€Dependent Levels of 5â€Methylâ€, 5â€Hydroxymethylâ€, and 5â€Formylcytosine in Human and Mouse Brain Tissues. Angewandte Chemie - International Edition, 2015, 54, 12511-12514.	7.2	116
95	DNA Repair. Angewandte Chemie - International Edition, 2015, 54, 15330-15333.	7.2	7
96	AltersabhÃngige Level von 5â€Methylâ€, 5â€Hydroxymethylâ€•und 5â€Formylcytosin in Hirngeweben des Menschen und der Maus. Angewandte Chemie, 2015, 127, 12691-12695.	1.6	19
97	TET3 Is Recruited by REST for Context-Specific Hydroxymethylation and Induction of Gene Expression. Cell Reports, 2015, 11, 283-294.	2.9	117
98	DNA based multi-copper ions assembly using combined pyrazole and salen ligandosides. Chemical Science, 2015, 6, 632-638.	3.7	42
99	A rapid screening system evaluates novel inhibitors of DNA methylation and suggests F-box proteins as potential therapeutic targets for high-risk neuroblastoma. Targeted Oncology, 2015, 10, 523-533.	1.7	16
100	Dewar Lesion Formation in Single- and Double-Stranded DNA is Quenched by Neighboring Bases. Journal of Physical Chemistry B, 2015, 119, 8685-8692.	1.2	10
101	Structural insights into the recognition of cisplatin and AAF-dG lesion by Rad14 (XPA). Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8272-8277.	3.3	46
102	Orchestrating the Biosynthesis of an Unnatural Pyrrolysine Amino Acid for Its Direct Incorporation into Proteins Inside Living Cells. Chemistry - A European Journal, 2015, 21, 7701-7704.	1.7	28
103	Effect of OpalescenceÂ® bleaching gels on the elution of dental composite components. Dental Materials, 2015, 31, 745-757.	1.6	20
104	Release and protein binding of components from resin based composites in native saliva and other extraction media. Dental Materials, 2015, 31, 496-504.	1.6	28
105	Synthesis and DNAâ€Damaging Properties of Cisplatinâ€Nâ€Mustard Conjugates. European Journal of Organic Chemistry, 2015, 2015, 2654-2660.	1.2	7
106	Chaperoning epigenetics: FKBP51 decreases the activity of DNMT1 and mediates epigenetic effects of the antidepressant paroxetine. Science Signaling, 2015, 8, ra119.	1.6	85
107	Cellâ€Penetrating and Neurotargeting Dendritic siRNA Nanostructures. Angewandte Chemie - International Edition, 2015, 54, 1946-1949.	7.2	44
108	â€œPostâ€Itâ€•Type Connected DNA Created with a Reversible Covalent Crossâ€Link. Angewandte Chemie - International Edition, 2015, 54, 796-800.	7.2	28

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109	Photoinduced Charge Transfer Occurs Naturally in DNA. Springer Proceedings in Physics, 2015, , 568-571.	0.1	0
110	Structural Perspectives on the Mechanism of the Radical SAM Enzyme, Spore Photoproduct Lyase. FASEB Journal, 2015, 29, 895.14.	0.2	0
111	Zinc finger oxidation of Fpg/Nei DNA glycosylases by 2-thioxanthine: biochemical and X-ray structural characterization. Nucleic Acids Research, 2014, 42, 10748-10761.	6.5	10
112	DNA methylation and differential gene regulation in photoreceptor cell death. Cell Death and Disease, 2014, 5, e1558-e1558.	2.7	47
113	Photoinduced charge transfer occurs naturally in DNA. , 2014, , .		0
114	Identification of novel DNA-damage tolerance genes reveals regulation of translesion DNA synthesis by nucleophosmin. Nature Communications, 2014, 5, 5437.	5.8	43
115	Rescuing DNA repair activity by rewiring the H-atom transfer pathway in the radical SAM enzyme, spore photoproduct lyase. Chemical Communications, 2014, 50, 14201-14204.	2.2	16
116	Riboseâ€Protonated DNA Base Excision Repair: A Combined Theoretical and Experimental Study. Angewandte Chemie, 2014, 126, 10208-10212.	1.6	5
117	Formation and Direct Repair of <scp>UV</scp>â€induced Dimeric <scp>DNA</scp> Pyrimidine Lesions. Photochemistry and Photobiology, 2014, 90, 1-14.	1.3	55
118	Synthesis of a DNA Promoter Segment Containing All Four Epigenetic Nucleosides: 5â€Methylâ€, 5â€Hydroxymethylâ€, 5â€Formylâ€, and 5â€Carboxyâ€2â€²â€Deoxycytidine. Angewandte Chemie - International Edition, 2014, 53, 315-318.	7.2	38
119	Characterization of acute myeloid leukemia based on levels of global hydroxymethylation. Blood, 2014, 124, 1110-1118.	0.6	80
120	Charge separation and charge delocalization identified in long-living states of photoexcited DNA. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4369-4374.	3.3	108
121	Strand-specific Recognition of DNA Damages by XPD Provides Insights into Nucleotide Excision Repair Substrate Versatility. Journal of Biological Chemistry, 2014, 289, 3613-3624.	1.6	42
122	Tet oxidizes thymine to 5-hydroxymethyluracil in mouse embryonic stem cell DNA. Nature Chemical Biology, 2014, 10, 574-581.	3.9	270
123	Synthesis of Î³-labeled nucleoside 5â€²-triphosphates using click chemistry. Chemical Communications, 2014, 50, 1861-1863.	2.2	29
124	Fingerprinting DNA Oxidation Processes: IR Characterization of the 5â€Methylâ€2â€²â€Deoxycytidine Radical Cation. ChemPhysChem, 2014, 15, 420-423.	1.0	7
125	Synthesis and properties of a Cu(ii) complexing pyrazole ligandoside in DNA. Chemical Communications, 2014, 50, 409-411.	2.2	21
126	Targeted Mutagenesis Results in an Activation of DNA Methyltransferase 1 and Confirms an Autoinhibitory Role of its RFTS Domain. ChemBioChem, 2014, 15, 743-748.	1.3	31

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127	Watsonâ€“Crick Base Pairing Controls Excitedâ€State Decay in Natural DNA. Angewandte Chemie - International Edition, 2014, 53, 11366-11369.	7.2	59
128	Riboseâ€Protonated DNA Base Excision Repair: A Combined Theoretical and Experimental Study. Angewandte Chemie - International Edition, 2014, 53, 10044-10048.	7.2	37
129	Cockayne Syndrome: Varied Requirement of Transcription-Coupled Nucleotide Excision Repair for the Removal of Three Structurally Different Adducts from Transcribed DNA. PLoS ONE, 2014, 9, e94405.	1.1	12
130	DNA bases beyond Watson and Crick. , 2014, , .		0
131	Unexpected non-Hoogsteenâ€“based mutagenicity mechanism of FaPy-DNA lesions. Nature Chemical Biology, 2013, 9, 455-461.	3.9	29
132	Total Synthesis of the Hypermodified tRNA Nucleoside Epoxyqueuosine. European Journal of Organic Chemistry, 2013, 2013, 4483-4485.	1.2	2
133	Norbornenes in Inverse Electronâ€Demand Dielsâ€“Alder Reactions. Chemistry - A European Journal, 2013, 19, 13309-13312.	1.7	61
134	Deamination, Oxidation, and Câ€“C Bond Cleavage Reactivity of 5-Hydroxymethylcytosine, 5-Formylcytosine, and 5-Carboxycytosine. Journal of the American Chemical Society, 2013, 135, 14593-14599.	6.6	83
135	Synthesis of Îµ-N-propionyl-, Îµ-N-butyryl-, and Îµ-N-crotonyl-lysine containing histone H3 using the pyrrolysine system. Chemical Communications, 2013, 49, 379-381.	2.2	79
136	The radical SAM enzyme spore photoproduct lyase employs a tyrosyl radical for DNA repair. Chemical Communications, 2013, 49, 722-724.	2.2	17
137	Synthesis of 5-Hydroxymethyl-, 5-Formyl-, and 5-Carboxycytidine-triphosphates and Their Incorporation into Oligonucleotides by Polymerase Chain Reaction. Organic Letters, 2013, 15, 366-369.	2.4	39
138	Total Syntheses and Biological Evaluation of 3â€Oâ€Methylfunicone and Its Derivatives Prepared by TMPZnClÂ·LiClâ€Mediated Halogenation and Carbonylative Stille Crossâ€Coupling. European Journal of Organic Chemistry, 2013, 2013, 77-83.	1.2	24
139	Cytotoxicity and induction of DNA double-strand breaks by components leached from dental composites in primary human gingival fibroblasts. Dental Materials, 2013, 29, 971-979.	1.6	19
140	Dynamic Readers for 5-(Hydroxy)Methylcytosine and Its Oxidized Derivatives. Cell, 2013, 152, 1146-1159.	13.5	888
141	Total Synthesis of the Hypermodified RNA Bases Wybutosine and Hydroxywybutosine and Their Quantification Together with Other Modified RNA Bases in Plant Materials. Chemistry - A European Journal, 2013, 19, 4244-4248.	1.7	15
142	Regioselective Metalations of Pyrimidines and Pyrazines by Using Frustrated Lewis Pairs of BF₃â‹…OEt₂ and Hindered Magnesiumâ€“ and Zincâ€“Amide Bases. Angewandte Chemie - International Edition, 2013, 52, 6776-6780.	12.2	61
143	Structural Insights into Incorporation of Norbornene Amino Acids for Click Modification of Proteins. ChemBioChem, 2013, 14, 2114-2118.	1.3	34
144	Structural basis for the site-specific chemical modification of proteins. Acta Crystallographica Section A: Foundations and Advances, 2013, 69, s325-s326.	0.3	0

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145	Ultrafast spectroscopy of UV-induced DNA-lesions â€" on the search for strategies which keep DNA alive. EPJ Web of Conferences, 2013, 41, 07005.	0.1	2
146	Aberrant 5-Hydroxymethylcytosine Levels Correlate With Poor Overall Survival In Acute Myeloid Leukemia. Blood, 2013, 122, 1261-1261.	0.6	1
147	Dynamics of ultraviolet-induced DNA lesions: Dewar formation guided by pre-tension induced by the backbone. New Journal of Physics, 2012, 14, 065006.	1.2	24
148	Structural insights into recognition and repair of UV-DNA damage by Spore Photoproduct Lyase, a radical SAM enzyme. Nucleic Acids Research, 2012, 40, 9308-9318.	6.5	73
149	The CDK5 repressor CDK5RAP1 is a methylthiotransferase acting on nuclear and mitochondrial RNA. Nucleic Acids Research, 2012, 40, 6235-6240.	6.5	60
150	ONIOM approach for non-adiabatic on-the-fly molecular dynamics demonstrated for the backbone controlled Dewar valence isomerization. Journal of Chemical Physics, 2012, 136, 204307.	1.2	25
151	DNA damage bypass operates in the S and G2 phases of the cell cycle and exhibits differential mutagenicity. Nucleic Acids Research, 2012, 40, 170-180.	6.5	98
152	Isotopeâ€Based Analysis of Modified tRNA Nucleosides Correlates Modification Density with Translational Efficiency. Angewandte Chemie - International Edition, 2012, 51, 11162-11165.	7.2	40
153	Discovery and Mutagenicity of a Guanidinoformimine Lesion as a new Intermediate of the Oxidative Deoxyguanosine Degradation Pathway. Journal of the American Chemical Society, 2012, 134, 4925-4930.	6.6	10
154	Mechanism of Translesion Transcription by RNA Polymerase II and Its Role in Cellular Resistance to DNA Damage. Molecular Cell, 2012, 46, 18-29.	4.5	104
155	Catalysis and regulation. Current Opinion in Structural Biology, 2012, 22, 689-690.	2.6	1
156	Mechanism of UV-induced Dewar lesion repair catalysed by DNA (6-4) photolyase. Chemical Science, 2012, 3, 1794.	3.7	9
157	Click-Modified Anandamide siRNA Enables Delivery and Gene Silencing in Neuronal and Immune Cells. Journal of the American Chemical Society, 2012, 134, 12330-12333.	6.6	67
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