

Thomas Carell

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

355
papers

18,076
citations

68
h-index

122
g-index

407
ext. papers

19,930
ext. citations

9.9
avg, IF

6.67
L-index

#	Paper		IF	Citations
355	tRNA modification profiles in obligate and moderate thermophilic bacilli.. <i>Extremophiles</i> , 2022 , 26, 11	3	0	
354	Chemical synthesis of the fluorescent, cyclic dinucleotides cthGAMP.. <i>ChemBioChem</i> , 2022 ,	3.8	2	
353	A prebiotically plausible scenario of an RNA-peptide world.. <i>Nature</i> , 2022 , 605, 279-284	50.4	11	
352	Unified Description of Ultrafast Excited State Decay Processes in Epigenetic Deoxycytidine Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11070-11077	6.4	1	
351	François Diederich (1952-2020): 40 Jahre Organische Chemie. <i>Angewandte Chemie</i> , 2021 , 133, 11666-11673	16		
350	Targeting the nucleotide salvage factor DNPH1 sensitizes -deficient cells to PARP inhibitors. <i>Science</i> , 2021 , 372, 156-165	33.3	12	
349	François Diederich (1952-2020): 40 Years of Organic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11562-11567	16.4		
348	5-Hydroxymethyl-, 5-Formyl- and 5-Carboxydeoxycytidines as Oxidative Lesions and Epigenetic Marks. <i>Chemistry - A European Journal</i> , 2021 , 27, 8100-8104	4.8	2	
347	TENT4A Non-Canonical Poly(A) Polymerase Regulates DNA-Damage Tolerance via Multiple Pathways That Are Mutated in Endometrial Cancer. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1	
346	Deformylation von 5-Formylcytidin in unterschiedlichen Zelltypen. <i>Angewandte Chemie</i> , 2021 , 133, 17005-17010	16		
345	Deformylation of 5-Formylcytidine in Different Cell Types. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16869-16873	16.4	3	
344	Redirected nuclear glutamate dehydrogenase supplies Tet3 with α -ketoglutarate in neurons. <i>Nature Communications</i> , 2021 , 12, 4100	17.4	1	
343	Quantification of DNA Methylation and Its Oxidized Derivatives Using LC-MS. <i>Methods in Molecular Biology</i> , 2021 , 2272, 77-94	1.4		
342	Comparative Nucleosomal Reactivity of 5-Formyl-Uridine and 5-Formyl-Cytidine. <i>Chemistry - A European Journal</i> , 2021 , 27, 12747-12752	4.8	1	
341	Biomimetic Iron Complex Achieves TET Enzyme Reactivity**. <i>Angewandte Chemie</i> , 2021 , 133, 21627-21633	16	0	
340	Biomimetic Iron Complex Achieves TET Enzyme Reactivity*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21457-21463	16.4	3	
339	Intragenomic Decarboxylation of 5-Carboxy-2'-deoxycytidine. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23207-23211	16.4	1	

338	Intragenomische Decarboxylierung von 5-Carboxy-2'-desoxycytidin. <i>Angewandte Chemie</i> , 2021 , 133, 23394	3.6
337	Synthesis and structure elucidation of the human tRNA nucleoside mannosyl-queuosine. <i>Nature Communications</i> , 2021 , 12, 7123	17.4 2
336	DNA hydroxymethylation is associated with disease severity and persists at enhancers of oncogenic regions in multiple myeloma. <i>Clinical Epigenetics</i> , 2020 , 12, 163	7.7 1
335	Amino Acid Modified RNA Bases as Building Blocks of an Early Earth RNA-Peptide World. <i>Chemistry - A European Journal</i> , 2020 , 26, 14856-14860	4.8 5
334	Supersensitive Multifluorophore RNA-FISH for Early Virus Detection and Flow-FISH by Using Click Chemistry. <i>ChemBioChem</i> , 2020 , 21, 2214-2218	3.8 2
333	Synthesis of Galactosyl-Queuosine and Distribution of Hypermodified Q-Nucleosides in Mouse Tissues. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12352-12356	16.4 9
332	Synthese von Galaktosyl-Queuosin und Verteilung von hypermodifizierten Q-Nukleosiden in Mausgeweben. <i>Angewandte Chemie</i> , 2020 , 132, 12451-12455	3.6
331	Single molecule analysis reveals monomeric XPA bends DNA and undergoes episodic linear diffusion during damage search. <i>Nature Communications</i> , 2020 , 11, 1356	17.4 8
330	Analyse des aktiven Deformylierungsmechanismus von 5-Formyl-2'-Desoxycytidin in Stammzellen. <i>Angewandte Chemie</i> , 2020 , 132, 5639-5643	3.6 6
329	Synthesis and Incorporation of k2U into RNA. <i>Helvetica Chimica Acta</i> , 2020 , 103, e2000016	2 1
328	Chemoenzymatic Preparation of Functional Click-Labeled Messenger RNA. <i>ChemBioChem</i> , 2020 , 21, 1641-1646	13.8
327	Analysis of an Active Deformylation Mechanism of 5-Formyl-deoxycytidine (fdC) in Stem Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5591-5594	16.4 16
326	The cGMP-Dependent Protein Kinase 2 Contributes to Cone Photoreceptor Degeneration in the -Deficient Mouse Model of Achromatopsia. <i>International Journal of Molecular Sciences</i> , 2020 , 22,	6.3 5
325	A Click-Chemistry-Based Enrichable Crosslinker for Structural and Protein Interaction Analysis by Mass Spectrometry. <i>ChemBioChem</i> , 2020 , 21, 103-107	3.8 6
324	When Did Life Likely Emerge on Earth in an RNA-First Process?. <i>ChemSystemsChem</i> , 2020 , 2, e1900035	3.1 32
323	Distinct and stage-specific contributions of TET1 and TET2 to stepwise cytosine oxidation in the transition from naive to primed pluripotency. <i>Scientific Reports</i> , 2020 , 10, 12066	4.9 8
322	Impact of 5-formylcytosine on the melting kinetics of DNA by ^1H NMR chemical exchange. <i>Nucleic Acids Research</i> , 2020 , 48, 8796-8807	20.1 4
321	Recent evolution of a TET-controlled and DPPA3/STELLA-driven pathway of passive DNA demethylation in mammals. <i>Nature Communications</i> , 2020 , 11, 5972	17.4 16

320	Active turnover of genomic methylcytosine in pluripotent cells. <i>Nature Chemical Biology</i> , 2020 , 16, 1411-1419	14
319	A Click Chemistry Approach to Developing Molecularly Targeted DNA Scissors. <i>Chemistry - A European Journal</i> , 2020 , 26, 16782-16792	4.8 10
318	Unified prebiotically plausible synthesis of pyrimidine and purine RNA ribonucleotides. <i>Science</i> , 2019 , 366, 76-82	33.3 91
317	A one-pot, water compatible synthesis of pyrimidine nucleobases under plausible prebiotic conditions. <i>Chemical Communications</i> , 2019 , 55, 1939-1942	5.8 12
316	Influencing Epigenetic Information with a Hydrolytically Stable Carbocyclic 5-Aza-2'-deoxycytidine. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12984-12987	16.4 4
315	Nucleotide excision repair of abasic DNA lesions. <i>Nucleic Acids Research</i> , 2019 , 47, 8537-8547	20.1 14
314	Label-Free Quantification of 5-Azacytidines Directly in the Genome. <i>Helvetica Chimica Acta</i> , 2019 , 102, e1800229	2 2
313	Influencing Epigenetic Information with a Hydrolytically Stable Carbocyclic 5-Aza-2?-deoxycytidine. <i>Angewandte Chemie</i> , 2019 , 131, 13118-13121	3.6 0
312	Triplet-Induced Lesion Formation at CpT andTpC Sites in DNA. <i>Chemistry - A European Journal</i> , 2019 , 25, 15164-15172	4.8 3
311	Proto-Urea-RNA (Wöller RNA) Containing Unusually Stable Urea Nucleosides. <i>Angewandte Chemie</i> , 2019 , 131, 18864-18869	3.6 3
310	Proto-Urea-RNA (Wöller RNA) Containing Unusually Stable Urea Nucleosides. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18691-18696	16.4 8
309	TLR8 Is a Sensor of RNase T2 Degradation Products. <i>Cell</i> , 2019 , 179, 1264-1275.e13	56.2 46
308	Synthesis of an acpU phosphoramidite and incorporation of the hypermodified base into RNA. <i>Chemical Communications</i> , 2019 , 55, 12216-12218	5.8 4
307	Isotope-dilution mass spectrometry for exact quantification of noncanonical DNA nucleosides. <i>Nature Protocols</i> , 2019 , 14, 283-312	18.8 27
306	A Click-Chemistry Linked 2'3'-cGAMP Analogue. <i>Chemistry - A European Journal</i> , 2019 , 25, 2089-2095	4.8 8
305	Nicht-kanonische RNA-Nukleoside als molekulare Fossilien einer frühen Erde [Generierung durch präbiotische Methylierungen und Carbamoylierungen]. <i>Angewandte Chemie</i> , 2018 , 130, 6050-6054	3.6 10
304	Wet-dry cycles enable the parallel origin of canonical and non-canonical nucleosides by continuous synthesis. <i>Nature Communications</i> , 2018 , 9, 163	17.4 67
303	Ein auf Sulfoxid basierendes, isobares Derivatisierungsreagens für die präzise quantitative Massenspektrometrie. <i>Angewandte Chemie</i> , 2018 , 130, 3008-3013	3.6 2

302	A Sulfoxide-Based Isobaric Labelling Reagent for Accurate Quantitative Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2958-2962	16.4	14
301	Noncanonical RNA Nucleosides as Molecular Fossils of an Early Earth-Generation by Prebiotic Methylations and Carbamoylations. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5943-5946	16.4	23
300	Non-canonical Bases in the Genome: The Regulatory Information Layer in DNA. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4296-4312	16.4	56
299	Nichtkanonische Basen im Genom: die regulative Informationsebene in der DNA. <i>Angewandte Chemie</i> , 2018 , 130, 4377-4394	3.6	11
298	Chromatin-dependent allosteric regulation of DNMT3A activity by MeCP2. <i>Nucleic Acids Research</i> , 2018 , 46, 9044-9056	20.1	19
297	Rethinking the tools of the RNA world. <i>ELife</i> , 2018 , 7,	8.9	2
296	5-Formylcytosine to cytosine conversion by C-C bond cleavage in vivo. <i>Nature Chemical Biology</i> , 2018 , 14, 72-78	11.7	55
295	Non-canonical nucleosides and chemistry of the emergence of life. <i>Nature Communications</i> , 2018 , 9, 5174	7.4	10
294	ALKBH5-induced demethylation of mono- and dimethylated adenosine. <i>Chemical Communications</i> , 2018 , 54, 8591-8593	5.8	17
293	Structural Insights into the Recognition of N-Aryl- and C8-Aryl DNA Lesions by the Repair Protein XPA/Rad14. <i>ChemBioChem</i> , 2017 , 18, 1379-1382	3.8	4
292	The chemistries and consequences of DNA and RNA methylation and demethylation. <i>RNA Biology</i> , 2017 , 14, 1099-1107	4.8	65
291	Dendrimer-Based Signal Amplification of Click-Labelled DNA in Situ. <i>ChemBioChem</i> , 2017 , 18, 1716-1720	3.8	6
290	Quantitative LC-MS Provides No Evidence for m dA or m dC in the Genome of Mouse Embryonic Stem Cells and Tissues. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11268-11271	16.4	75
289	Functional impacts of 5-hydroxymethylcytosine, 5-formylcytosine, and 5-carboxycytosine at a single hemi-modified CpG dinucleotide in a gene promoter. <i>Nucleic Acids Research</i> , 2017 , 45, 11033-11042	20.1	21
288	Synthesis of RNA Containing 5-Hydroxymethyl-, 5-Formyl-, and 5-Carboxycytidine. <i>Chemistry - A European Journal</i> , 2017 , 23, 15894-15898	4.8	7
287	5-Formyl- and 5-Carboxydeoxycytidines Do Not Cause Accumulation of Harmful Repair Intermediates in Stem Cells. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10359-10364	16.4	38
286	Quantitative LC-MS liefert keinen Hinweis auf m6dA oder m4dC im Genom von Mausstammzellen und -geweben. <i>Angewandte Chemie</i> , 2017 , 129, 11422-11425	3.6	3
285	N-methyladenosine (mA) recruits and repels proteins to regulate mRNA homeostasis. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 870-878	17.6	261

284	5-Formylcytosin ist vermutlich eine semipermanente Base an definierten Genompositionen. <i>Angewandte Chemie</i> , 2016 , 128, 11974-11978	3.6	14
283	Synthesis of (R)-Configured 2'-Fluorinated mC, hmC, fC, and caC Phosphoramidites and Oligonucleotides. <i>Organic Letters</i> , 2016 , 18, 4368-71	6.2	15
282	5-Formylcytosine Could Be a Semipermanent Base in Specific Genome Sites. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11797-800	16.4	51
281	Tumour hypoxia causes DNA hypermethylation by reducing TET activity. <i>Nature</i> , 2016 , 537, 63-68	50.4	354
280	Direct observation of a deoxyadenosyl radical in an active enzyme environment. <i>FEBS Letters</i> , 2016 , 590, 4489-4494	3.8	5
279	DNA hydroxymethylation controls cardiomyocyte gene expression in development and hypertrophy. <i>Nature Communications</i> , 2016 , 7, 12418	17.4	97
278	Bioorthogonal Chemistry[!ntroduction and Overview. <i>Topics in Current Chemistry Collections</i> , 2016 , , 5-25	1.8	
277	UV-Induced Charge Transfer States in DNA Promote Sequence Selective Self-Repair. <i>Journal of the American Chemical Society</i> , 2016 , 138, 186-90	16.4	51
276	Genetically designed biomolecular capping system for mesoporous silica nanoparticles enables receptor-mediated cell uptake and controlled drug release. <i>Nanoscale</i> , 2016 , 8, 8101-10	7.7	22
275	Lewis Acid Triggered Regioselective Magnesiation and Zincation of Uracils, Uridines, and Cytidines. <i>Organic Letters</i> , 2016 , 18, 1068-71	6.2	12
274	Bioorthogonal Chemistry[!ntroduction and Overview [corrected]. <i>Topics in Current Chemistry</i> , 2016 , 374, 9	7.2	26
273	Active DNA demethylation at enhancers during the vertebrate phyletic period. <i>Nature Genetics</i> , 2016 , 48, 417-26	36.3	157
272	2'-(R)-Fluorinated mC, hmC, fC and caC triphosphates are substrates for DNA polymerases and TET-enzymes. <i>Chemical Communications</i> , 2016 , 52, 14361-14364	5.8	12
271	Molecular mechanisms of xeroderma pigmentosum (XP) proteins. <i>Quarterly Reviews of Biophysics</i> , 2016 , 49, e5	7	18
270	A high-yielding, strictly regioselective prebiotic purine nucleoside formation pathway. <i>Science</i> , 2016 , , 352, 833-6	33.3	146
269	Site-Specific Isotope-Labeling of Inosine Phosphoramidites and NMR Analysis of an Inosine-Containing RNA Duplex. <i>Chemistry - A European Journal</i> , 2016 , 22, 15350-15359	4.8	9
268	DNA based multi-copper ions assembly using combined pyrazole and salen ligandosides. <i>Chemical Science</i> , 2015 , 6, 632-638	9.4	36
267	A rapid screening system evaluates novel inhibitors of DNA methylation and suggests F-box proteins as potential therapeutic targets for high-risk neuroblastoma. <i>Targeted Oncology</i> , 2015 , 10, 523-53	11	

266	Dewar Lesion Formation in Single- and Double-Stranded DNA is Quenched by Neighboring Bases. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 8685-92	3.4	8
265	Structural insights into the recognition of cisplatin and AAF-dG lesion by Rad14 (XPA). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 8272-7	11.5	38
264	Orchestrating the biosynthesis of an unnatural pyrrolysine amino Acid for its direct incorporation into proteins inside living cells. <i>Chemistry - A European Journal</i> , 2015 , 21, 7701-4	4.8	24
263	Effect of Opalescence [®] bleaching gels on the elution of dental composite components. <i>Dental Materials</i> , 2015 , 31, 745-57	5.7	15
262	Release and protein binding of components from resin based composites in native saliva and other extraction media. <i>Dental Materials</i> , 2015 , 31, 496-504	5.7	21
261	Synthesis and DNA-Damaging Properties of Cisplatin-N-Mustard Conjugates. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 2654-2660	3.2	6
260	Chaperoning epigenetics: FKBP51 decreases the activity of DNMT1 and mediates epigenetic effects of the antidepressant paroxetine. <i>Science Signaling</i> , 2015 , 8, ra119	8.8	65
259	Cell-penetrating and neurotargeting dendritic siRNA nanostructures. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1946-9	16.4	35
258	"Post-it" type connected DNA created with a reversible covalent cross-link. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 796-800	16.4	25
257	Age-dependent levels of 5-methyl-, 5-hydroxymethyl-, and 5-formylcytosine in human and mouse brain tissues. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12511-4	16.4	93
256	Dendritische Nanostrukturen zur rezeptorvermittelten Aufnahme von siRNA in neurale Zellen. <i>Angewandte Chemie</i> , 2015 , 127, 1968-1971	3.6	5
255	Die Erbgut-Reparateure. <i>Nachrichten Aus Der Chemie</i> , 2015 , 63, 1065-1067	0.1	
254	Reversible kovalente Vernetzung erzeugt eine Post-it-DNA. <i>Angewandte Chemie</i> , 2015 , 127, 809-813	3.6	7
253	DNA-Reparatur. <i>Angewandte Chemie</i> , 2015 , 127, 15546-15549	3.6	
252	DNA Repair. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 15330-3	16.4	6
251	Altersabhängige Level von 5-Methyl-, 5-Hydroxymethyl- und 5-Formylcytosin in Hirngeweben des Menschen und der Maus. <i>Angewandte Chemie</i> , 2015 , 127, 12691-12695	3.6	17
250	TET3 is recruited by REST for context-specific hydroxymethylation and induction of gene expression. <i>Cell Reports</i> , 2015 , 11, 283-94	10.6	92
249	Photoinduced Charge Transfer Occurs Naturally in DNA. <i>Springer Proceedings in Physics</i> , 2015 , 568-571	0.2	

248	Structural Perspectives on the Mechanism of the Radical SAM Enzyme, Spore Photoproduct Lyase. <i>FASEB Journal</i> , 2015 , 29, 895.14	0.9
247	Charge separation and charge delocalization identified in long-living states of photoexcited DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4369-74	11.5 86
246	Strand-specific recognition of DNA damages by XPD provides insights into nucleotide excision repair substrate versatility. <i>Journal of Biological Chemistry</i> , 2014 , 289, 3613-24	5.4 36
245	Tet oxidizes thymine to 5-hydroxymethyluracil in mouse embryonic stem cell DNA. <i>Nature Chemical Biology</i> , 2014 , 10, 574-81	11.7 215
244	Synthesis of labeled nucleoside 5'-triphosphates using click chemistry. <i>Chemical Communications</i> , 2014 , 50, 1861-3	5.8 26
243	Fingerprinting DNA oxidation processes: IR characterization of the 5-methyl-2'-deoxycytidine radical cation. <i>ChemPhysChem</i> , 2014 , 15, 420-3	3.2 6
242	Synthesis and properties of a Cu(II) complexing pyrazole ligandoside in DNA. <i>Chemical Communications</i> , 2014 , 50, 409-11	5.8 19
241	Targeted mutagenesis results in an activation of DNA methyltransferase 1 and confirms an autoinhibitory role of its RFTS domain. <i>ChemBioChem</i> , 2014 , 15, 743-8	3.8 26
240	Watson-Crick base pairing controls excited-state decay in natural DNA. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11366-9	16.4 54
239	Ribose-protonated DNA base excision repair: a combined theoretical and experimental study. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10044-8	16.4 34
238	Synthese eines DNA-Promotorsegments mit allen vier epigenetischen Nukleosiden: 5-Methyl-, 5-Hydroxymethyl-, 5-Formyl- und 5-Carboxy-2'-Desoxycytidin. <i>Angewandte Chemie</i> , 2014 , 126, 321-324	3.6 8
237	Zinc finger oxidation of Fpg/Nei DNA glycosylases by 2-thioxanthine: biochemical and X-ray structural characterization. <i>Nucleic Acids Research</i> , 2014 , 42, 10748-61	20.1 7
236	DNA methylation and differential gene regulation in photoreceptor cell death. <i>Cell Death and Disease</i> , 2014 , 5, e1558	9.8 30
235	Identification of novel DNA-damage tolerance genes reveals regulation of translesion DNA synthesis by nucleophosmin. <i>Nature Communications</i> , 2014 , 5, 5437	17.4 38
234	Rescuing DNA repair activity by rewiring the H-atom transfer pathway in the radical SAM enzyme, spore photoproduct lyase. <i>Chemical Communications</i> , 2014 , 50, 14201-4	5.8 15
233	Ribose-Protonated DNA Base Excision Repair: A Combined Theoretical and Experimental Study. <i>Angewandte Chemie</i> , 2014 , 126, 10208-10212	3.6 5
232	Formation and Direct Repair of UV-induced Dimeric DNA Pyrimidine Lesions. <i>Photochemistry and Photobiology</i> , 2014 , 90, 1-14	3.6 49
231	In nat <u>ür</u> licher DNA wird der Zerfall des angeregten Zustands durch Watson-Crick-Basenpaarung bestimmt. <i>Angewandte Chemie</i> , 2014 , 126, 11549-11552	3.6 8

230	Synthesis of a DNA promoter segment containing all four epigenetic nucleosides: 5-methyl-, 5-hydroxymethyl-, 5-formyl-, and 5-carboxy-2'-deoxycytidine. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 315-8	16.4	32
229	Characterization of acute myeloid leukemia based on levels of global hydroxymethylation. <i>Blood</i> , 2014 , 124, 1110-8	2.2	66
228	Cockayne syndrome: varied requirement of transcription-coupled nucleotide excision repair for the removal of three structurally different adducts from transcribed DNA. <i>PLoS ONE</i> , 2014 , 9, e94405	3.7	10
227	Unexpected non-Hoogsteen-based mutagenicity mechanism of FaPy-DNA lesions. <i>Nature Chemical Biology</i> , 2013 , 9, 455-61	11.7	27
226	Total Synthesis of the Hypermodified tRNA Nucleoside Epoxyqueuosine. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 4483-4485	3.2	1
225	Norbornenes in inverse electron-demand Diels-Alder reactions. <i>Chemistry - A European Journal</i> , 2013 , 19, 13309-12	4.8	48
224	Deamination, oxidation, and C-C bond cleavage reactivity of 5-hydroxymethylcytosine, 5-formylcytosine, and 5-carboxycytosine. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14593-9	16.4	73
223	Synthesis of α -N-propionyl-, α -N-butyryl-, and α -N-crotonyl-lysine containing histone H3 using the pyrrolysine system. <i>Chemical Communications</i> , 2013 , 49, 379-81	5.8	66
222	The radical SAM enzyme spore photoproduct lyase employs a tyrosyl radical for DNA repair. <i>Chemical Communications</i> , 2013 , 49, 722-4	5.8	16
221	Synthesis of 5-hydroxymethyl-, 5-formyl-, and 5-carboxycytidine-triphosphates and their incorporation into oligonucleotides by polymerase chain reaction. <i>Organic Letters</i> , 2013 , 15, 366-9	6.2	28
220	Total Syntheses and Biological Evaluation of 3-O-Methylfunicone and Its Derivatives Prepared by TMPZnCl \square LiCl-Mediated Halogenation and Carbonylative Stille Cross-Coupling. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 77-83	3.2	18
219	Cytotoxicity and induction of DNA double-strand breaks by components leached from dental composites in primary human gingival fibroblasts. <i>Dental Materials</i> , 2013 , 29, 971-9	5.7	17
218	Dynamic readers for 5-(hydroxy)methylcytosine and its oxidized derivatives. <i>Cell</i> , 2013 , 152, 1146-59	56.2	748
217	Total synthesis of the hypermodified RNA bases wybutosine and hydroxywybutosine and their quantification together with other modified RNA bases in plant materials. <i>Chemistry - A European Journal</i> , 2013 , 19, 4244-8	4.8	10
216	Regioselective metalations of pyrimidines and pyrazines by using frustrated Lewis pairs of BF3 \square DET2 and hindered magnesium- and zinc-amide bases. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6776-80	16.4	52
215	Structural insights into incorporation of norbornene amino acids for click modification of proteins. <i>ChemBioChem</i> , 2013 , 14, 2114-8	3.8	30
214	Structural basis for the site-specific chemical modification of proteins. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2013 , 69, s325-s326		
213	Regioselektive Metallierungen von Pyrimidinen und Pyrazinen mit frustrierten Lewis-Paaren aus BF3 \square OEt2 und sterisch gehinderten Mg- und Zn-Amidbasen. <i>Angewandte Chemie</i> , 2013 , 125, 6909-6913	3.6	14

212	Ultrafast spectroscopy of UV-induced DNA-lesions – On the search for strategies which keep DNA alive. <i>EPJ Web of Conferences</i> , 2013 , 41, 07005	0.3	2
211	Aberrant 5-Hydroxymethylcytosine Levels Correlate With Poor Overall Survival In Acute Myeloid Leukemia. <i>Blood</i> , 2013 , 122, 1261-1261	2.2	1
210	Mechanismus der UV-induzierten Bildung von Dewar-Schäden in DNA. <i>Angewandte Chemie</i> , 2012 , 124, 421-424	3.6	10
209	Mechanism of UV-induced formation of Dewar lesions in DNA. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 408-11	16.4	59
208	Eine isotopenbasierte Analyse modifizierter tRNA-Nukleoside korreliert die Modifikationsdichte mit der Translationseffizienz. <i>Angewandte Chemie</i> , 2012 , 124, 11324-11328	3.6	3
207	Isotope-based analysis of modified tRNA nucleosides correlates modification density with translational efficiency. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11162-5	16.4	33
206	Discovery and mutagenicity of a guanidinoformimine lesion as a new intermediate of the oxidative deoxyguanosine degradation pathway. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4925-30	16.4	8
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