

Carmelo J Rizzo

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110
papers

3,150
citations

31
h-index

50
g-index

112
ext. papers

3,370
ext. citations

6.3
avg, IF

4.69
L-index

#	Paper	IF	Citations
110	DNA interchain cross-links formed by acrolein and crotonaldehyde. <i>Journal of the American Chemical Society</i> , 2003 , 125, 50-61	16.4	167
109	The mouse ortholog of NEIL3 is a functional DNA glycosylase in vitro and in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4925-30	11.5	144
108	Interstrand DNA cross-links induced by alpha,beta-unsaturated aldehydes derived from lipid peroxidation and environmental sources. <i>Accounts of Chemical Research</i> , 2008 , 41, 793-804	24.3	142
107	Chemistry and biology of DNA containing 1,N(2)-deoxyguanosine adducts of the alpha,beta-unsaturated aldehydes acrolein, crotonaldehyde, and 4-hydroxynonenal. <i>Chemical Research in Toxicology</i> , 2009 , 22, 759-78	4	141
106	DNA adduct bypass polymerization by <i>Sulfolobus solfataricus</i> DNA polymerase Dpo4: analysis and crystal structures of multiple base pair substitution and frameshift products with the adduct 1,N2-ethenoguanine. <i>Journal of Biological Chemistry</i> , 2005 , 280, 29750-64	5.4	132
105	Role for DNA polymerase kappa in the processing of N2-N2-guanine interstrand cross-links. <i>Journal of Biological Chemistry</i> , 2008 , 283, 17075-82	5.4	111
104	Checkpoint signaling from a single DNA interstrand crosslink. <i>Molecular Cell</i> , 2009 , 35, 704-15	17.6	88
103	Novel genomic island modifies DNA with 7-deazaguanine derivatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E1452-9	11.5	66
102	Site-specific synthesis and reactivity of oligonucleotides containing stereochemically defined 1,N2-deoxyguanosine adducts of the lipid peroxidation product trans-4-hydroxynonenal. <i>Journal of the American Chemical Society</i> , 2003 , 125, 5687-700	16.4	66
101	Induction of apoptosis in colorectal carcinoma cells treated with 4-hydroxy-2-nonenal and structurally related aldehydic products of lipid peroxidation. <i>Chemical Research in Toxicology</i> , 2004 , 17, 453-62	4	65
100	Site-specific synthesis and properties of oligonucleotides containing C8-deoxyguanosine adducts of the dietary mutagen IQ. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11189-201	16.4	63
99	Synthesis of the C8-deoxyguanosine adduct of the food mutagen IQ. <i>Organic Letters</i> , 2001 , 3, 565-8	6.2	63
98	Versatility of Y-family <i>Sulfolobus solfataricus</i> DNA polymerase Dpo4 in translesion synthesis past bulky N2-alkylguanine adducts. <i>Journal of Biological Chemistry</i> , 2009 , 284, 3563-76	5.4	59
97	Replication bypass of the acrolein-mediated deoxyguanine DNA-peptide cross-links by DNA polymerases of the DinB family. <i>Chemical Research in Toxicology</i> , 2008 , 21, 1983-90	4	58
96	Base-displaced intercalated structure of the food mutagen 2-amino-3-methylimidazo[4,5-f]quinoline in the recognition sequence of the NarI restriction enzyme, a hotspot for -2 bp deletions. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10085-95	16.4	57
95	Translesion synthesis across 1,N2-ethenoguanine by human DNA polymerases. <i>Chemical Research in Toxicology</i> , 2006 , 19, 879-86	4	52
94	Novel enzymatic function of DNA polymerase nu in translesion DNA synthesis past major groove DNA-peptide and DNA-DNA cross-links. <i>Chemical Research in Toxicology</i> , 2010 , 23, 689-95	4	50

93	Stereospecific formation of interstrand carbinolamine DNA cross-links by crotonaldehyde- and acetaldehyde-derived alpha-CH3-gamma-OH-1,N2-propano-2'-deoxyguanosine adducts in the 5'-CpG-3' sequence. <i>Chemical Research in Toxicology</i> , 2006 , 19, 195-208	4	49
92	Site-specific mutagenicity of stereochemically defined 1,N2-deoxyguanosine adducts of trans-4-hydroxynonenal in mammalian cells. <i>Environmental and Molecular Mutagenesis</i> , 2003 , 42, 68-74	3.2	46
91	Mutagenic potential of DNA-peptide crosslinks mediated by acrolein-derived DNA adducts. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008 , 637, 161-72	3.3	45
90	Conformational Effects on Flavin Redox Chemistry. <i>Journal of Organic Chemistry</i> , 1997 , 62, 5244-5245	4.2	42
89	Translesion synthesis past the C8- and N2-deoxyguanosine adducts of the dietary mutagen 2-Amino-3-methylimidazo[4,5-f]quinoline in the NarI recognition sequence by prokaryotic DNA polymerases. <i>Chemical Research in Toxicology</i> , 2006 , 19, 1506-17	4	40
88	Biochemical basis of genotoxicity of heterocyclic arylamine food mutagens: Human DNA polymerase eta selectively produces a two-base deletion in copying the N2-guanyl adduct of 2-amino-3-methylimidazo[4,5-f]quinoline but not the C8 adduct at the NarI G3 site. <i>Journal of Biological Chemistry</i> , 2006 , 281, 25227-25231	5.4	37
87	Xeroderma pigmentosum complementation group C protein (XPC) serves as a general sensor of damaged DNA. <i>DNA Repair</i> , 2013 , 12, 947-53	4.3	36
86	Spectroscopic characterization of interstrand carbinolamine cross-links formed in the 5'-CpG-3' sequence by the acrolein-derived gamma-OH-1,N2-propano-2'-deoxyguanosine DNA adduct. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17686-96	16.4	36
85	DNA cross-link induced by trans-4-hydroxynonenal. <i>Environmental and Molecular Mutagenesis</i> , 2010 , 51, 625-34	3.2	35
84	DNA sequence modulates the conformation of the food mutagen 2-amino-3-methylimidazo[4,5-f]quinoline in the recognition sequence of the NarI restriction enzyme. <i>Biochemistry</i> , 2007 , 46, 8498-516	3.2	34
83	Structure-function relationships in miscoding by <i>Sulfolobus solfataricus</i> DNA polymerase Dpo4: guanine N2,N2-dimethyl substitution produces inactive and miscoding polymerase complexes. <i>Journal of Biological Chemistry</i> , 2009 , 284, 17687-99	5.4	32
82	Stereocontrolled syntheses of deoxyribonucleosides via photoinduced electron-transfer deoxygenation of benzoyl-protected ribo- and arabinonucleosides. <i>Journal of Organic Chemistry</i> , 2000 , 65, 5969-85	4.2	32
81	Structure-Function Relationships in Miscoding by <i>Sulfolobus solfataricus</i> DNA Polymerase Dpo4. <i>Journal of Biological Chemistry</i> , 2009 , 284, 17687-17699	5.4	31
80	DNA adducts of acrolein: site-specific synthesis of an oligodeoxynucleotide containing 6-hydroxy-5,6,7,8-tetrahydropyrimido[1,2-a]purin-10(3H)-one, an acrolein adduct of guanine. <i>Chemical Research in Toxicology</i> , 2002 , 15, 607-13	4	31
79	Formation of deoxyguanosine cross-links from calf thymus DNA treated with acrolein and 4-hydroxy-2-nonenal. <i>Chemical Research in Toxicology</i> , 2010 , 23, 1701-13	4	29
78	Next-generation sequencing reveals the biological significance of the N(2),3-ethenoguanine lesion in vivo. <i>Nucleic Acids Research</i> , 2015 , 43, 5489-500	20.1	28
77	Conformational differences of the C8-deoxyguanosine adduct of 2-amino-3-methylimidazo[4,5-f]quinoline (IQ) within the NarI recognition sequence. <i>Chemical Research in Toxicology</i> , 2007 , 20, 445-54	4	28
76	Regioselective synthesis of beta-N1- and beta-N3-alloxazine nucleosides. <i>Organic Letters</i> , 2000 , 2, 227-30.2	36.2	28

75	Site-specific synthesis of oligonucleotides containing malondialdehyde adducts of deoxyguanosine and deoxyadenosine via a postsynthetic modification strategy. <i>Chemical Research in Toxicology</i> , 2006 , 19, 1467-74	4	27
74	Differential repair of etheno-DNA adducts by bacterial and human AlkB proteins. <i>DNA Repair</i> , 2015 , 30, 1-10	4.3	26
73	Replication of N2,3-ethenoguanine by DNA polymerases. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 5466-9	16.4	26
72	Structural and functional analysis of <i>Sulfolobus solfataricus</i> Y-family DNA polymerase Dpo4-catalyzed bypass of the malondialdehyde-deoxyguanosine adduct. <i>Biochemistry</i> , 2009 , 48, 7079-88 ^{3,2}		26
71	Steric and electrostatic effects at the C2 atom substituent influence replication and miscoding of the DNA deamination product deoxyxanthosine and analogs by DNA polymerases. <i>Journal of Molecular Biology</i> , 2009 , 392, 251-69	6.5	26
70	Site-specific synthesis and characterization of oligonucleotides containing an N6-(2-deoxy-D-erythro-pentofuranosyl)-2,6-diamino-3,4-dihydro-4-oxo-5-N-methylformamidopyrimidine ₄ lesion, the ring-opened product from N7-methylation of deoxyguanosine. <i>Chemical Research in Toxicology</i> , 2009 , 22, 1086-95	4	26
69	Site specific synthesis and polymerase bypass of oligonucleotides containing a 6-hydroxy-3,5,6,7-tetrahydro-9H-imidazo[1,2-a]purin-9-one base, an intermediate in the formation of 1,N2-etheno-2'-deoxyguanosine. <i>Chemical Research in Toxicology</i> , 2005 , 18, 1701-14	4	26
68	Stereocontrolled syntheses of all four stereoisomeric 1,N2-deoxyguanosine adducts of the lipid peroxidation product trans-4-hydroxynonenal. <i>Organic Letters</i> , 2001 , 3, 3603-5	6.2	26
67	Replication past the N5-methyl-formamidopyrimidine lesion of deoxyguanosine by DNA polymerases and an improved procedure for sequence analysis of in vitro bypass products by mass spectrometry. <i>Chemical Research in Toxicology</i> , 2009 , 22, 1086-95	4	25
66	Basis of miscoding of the DNA adduct N2,3-ethenoguanine by human Y-family DNA polymerases. <i>Journal of Biological Chemistry</i> , 2012 , 287, 35516-35526	5.4	25
65	Mechanism of 1,N2-etheno-2'-deoxyguanosine formation from epoxyaldehydes. <i>Chemical Research in Toxicology</i> , 2007 , 20, 1685-92	4	24
64	A novel synthesis of malondialdehyde adducts of deoxyguanosine, deoxyadenosine, and deoxycytidine. <i>Chemical Research in Toxicology</i> , 2004 , 17, 144-9	4	24
63	Selective Incision of the alpha-N-Methyl-Formamidopyrimidine Anomer by <i>Escherichia coli</i> Endonuclease IV. <i>Journal of Nucleic Acids</i> , 2010 , 2010,	2.3	23
62	The modulation of topoisomerase I-mediated DNA cleavage and the induction of DNA-topoisomerase I crosslinks by crotonaldehyde-derived DNA adducts. <i>Nucleic Acids Research</i> , 2008 , 36, 4128-36	20.1	22
61	Chemical and electrochemical oxidation of C8-arylamine adducts of 2'-deoxyguanosine. <i>Journal of the American Chemical Society</i> , 2007 , 129, 2074-81	16.4	22
60	In vitro bypass of the major malondialdehyde- and base propenal-derived DNA adduct by human Y-family DNA polymerases η and Rev1. <i>Biochemistry</i> , 2010 , 49, 8415-24	3.2	21
59	Mechanism of repair of acrolein- and malondialdehyde-derived exocyclic guanine adducts by the β -ketoglutarate/Fe(II) dioxygenase AlkB. <i>Chemical Research in Toxicology</i> , 2014 , 27, 1619-31	4	20
58	Coupling products of nucleosides with the glyoxal adduct of deoxyguanosine. <i>Chemical Research in Toxicology</i> , 2004 , 17, 1047-56	4	20

57	Facile Addition of Dichloroketene to Acetylenes Mediated by Zinc and Ultrasound. <i>Synthetic Communications</i> , 1995 , 25, 2781-2789	1.7	20
56	Quantitation of Apurinic/Apyrimidinic Sites in Isolated DNA and in Mammalian Tissue with a Reduced Level of Artifacts. <i>Analytical Chemistry</i> , 2019 , 91, 7403-7410	7.8	19
55	Orientation of the crotonaldehyde-derived N2-[3-Oxo-1(S)-methyl-propyl]-dG DNA adduct hinders interstrand cross-link formation in the 5'-CpG-3' sequence. <i>Chemical Research in Toxicology</i> , 2006 , 19, 1019-29	4	19
54	Synthesis of the N2-deoxyguanosine adduct of the potent dietary mutagen IQ. <i>Organic Letters</i> , 2004 , 6, 4985-8	6.2	19
53	Oxidation and glycolytic cleavage of etheno and propano DNA base adducts. <i>Biochemistry</i> , 2009 , 48, 800-9	3.2	17
52	The stereochemistry of trans-4-hydroxynonenal-derived exocyclic 1,N2-2'-deoxyguanosine adducts modulates formation of interstrand cross-links in the 5'-CpG-3' sequence. <i>Biochemistry</i> , 2008 , 47, 11457-11462	3.2	17
51	A One-Pot/Phase Transfer Alkylation/Hydrolysis of o-Nitrotrifluoroacetanilides. A Convenient Route to N-ALKYL o-Phenylenediamines. <i>Synthetic Communications</i> , 1996 , 26, 4065-4080	1.7	17
50	Characterization of nitrogen mustard formamidopyrimidine adduct formation of bis(2-chloroethyl)ethylamine with calf thymus DNA and a human mammary cancer cell line. <i>Chemical Research in Toxicology</i> , 2015 , 28, 1850-60	4	16
49	Rearrangement of the (6S,8R,11S) and (6R,8S,11R) exocyclic 1,N2-deoxyguanosine adducts of trans-4-hydroxynonenal to N2-deoxyguanosine cyclic hemiacetal adducts when placed complementary to cytosine in duplex DNA. <i>Journal of the American Chemical Society</i> , 2008 , 130, 10898-906	16.4	16
48	Chemical properties of oxopropenyl adducts of purine and pyrimidine nucleosides and their reactivity toward amino acid cross-link formation. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2195-201	16.4	16
47	Stereochemistry modulates the stability of reduced interstrand cross-links arising from R- and S-alpha-CH3-gamma-OH-1,N2-propano-2'-deoxyguanosine in the 5'-CpG-3' DNA sequence. <i>Biochemistry</i> , 2007 , 46, 2608-21	3.2	16
46	Mutagenic spectra arising from replication bypass of the 2,6-diamino-4-hydroxy-N(5)-methyl formamidopyrimidine adduct in primate cells. <i>Chemical Research in Toxicology</i> , 2013 , 26, 1108-14	4	15
45	Structure of the 1,N2-etheno-2'-deoxyguanosine adduct in duplex DNA at pH 8.6. <i>Chemical Research in Toxicology</i> , 2007 , 20, 1601-11	4	15
44	Replication of the 2,6-diamino-4-hydroxy-N(5)-(methyl)-formamidopyrimidine (MeFapy-dGuo) adduct by eukaryotic DNA polymerases. <i>Chemical Research in Toxicology</i> , 2012 , 25, 1652-61	4	14
43	Structure of the 1,N2-ethenodeoxyguanosine adduct opposite cytosine in duplex DNA: Hoogsteen base pairing at pH 5.2. <i>Chemical Research in Toxicology</i> , 2008 , 21, 1795-805	4	14
42	Absolute configuration and conformational stability of (+)-2,5-dimethylthiolane and (-)-2,5-dimethylsulfolane. <i>Journal of Organic Chemistry</i> , 2001 , 66, 3507-12	4.2	14
41	Base-displaced intercalation of the 2-amino-3-methylimidazo[4,5-f]quinolone N2-dG adduct in the NarI DNA recognition sequence. <i>Nucleic Acids Research</i> , 2014 , 42, 3450-63	20.1	13
40	Stereospecific formation of the (R)-gamma-hydroxytrimethylene interstrand N2-dG:N2-dG cross-link arising from the gamma-OH-1,N2-propano-2'-deoxyguanosine adduct in the 5'-CpG-3' DNA sequence. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8416-24	16.4	13

39	Metabolism and elimination of the endogenous DNA adduct, 3-(2-deoxy-beta-D-erythro-pentofuranosyl)-pyrimido[1,2-alpha]purine-10(3H)-one, in the rat. <i>Journal of Biological Chemistry</i> , 2007 , 282, 36257-64	5.4	13
38	Structural Basis for Error-Free Bypass of the 5-N-Methylformamidopyrimidine-dG Lesion by Human DNA Polymerase β and <i>Sulfolobus solfataricus</i> P2 Polymerase IV. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7011-4	16.4	12
37	Synthesis and characterization of oligonucleotides containing a nitrogen mustard formamidopyrimidine monoadduct of deoxyguanosine. <i>Chemical Research in Toxicology</i> , 2014 , 27, 1610-8	4	12
36	Conformational interconversion of the trans-4-hydroxynonenal-derived (6S,8R,11S) 1,N(2)-deoxyguanosine adduct when mismatched with deoxyadenosine in DNA. <i>Chemical Research in Toxicology</i> , 2009 , 22, 187-200	4	12
35	Catalysts of DNA Strand Cleavage at Apurinic/Apyrimidinic Sites. <i>Scientific Reports</i> , 2016 , 6, 28894	4.9	12
34	DNA polymerases β and γ cooperatively perform mutagenic translesion synthesis of the C8-2'-deoxyguanosine adduct of the dietary mutagen IQ in human cells. <i>Nucleic Acids Research</i> , 2015 , 43, 8340-51	20.1	11
33	Minor groove orientation of the KWKK peptide tethered via the N-terminal amine to the acrolein-derived 1,N2-gamma-hydroxypropanodeoxyguanosine lesion with a trimethylene linkage. <i>Biochemistry</i> , 2010 , 49, 6155-64	3.2	11
32	Translesion DNA synthesis by human DNA polymerase η on templates containing a pyrimidopurine deoxyguanosine adduct, 3-(2'-deoxy-beta-d-erythro-pentofuranosyl)pyrimido-[1,2-a]purin-10(3H)-one. <i>Biochemistry</i> , 2009 , 48, 471-88	3.2	11
31	"One-pot" syntheses of malondialdehyde adducts of nucleosides. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2008 , 27, 103-9	1.4	11
30	Characterization of the deoxyguanosine-lysine cross-link of methylglyoxal. <i>Chemical Research in Toxicology</i> , 2014 , 27, 1019-29	4	10
29	Formation of a N2-dG:N2-dG carbinolamine DNA cross-link by the trans-4-hydroxynonenal-derived (6S,8R,11S) 1,N2-dG adduct. <i>Journal of the American Chemical Society</i> , 2011 , 133, 16101-10	16.4	10
28	Synthesis of oligonucleotides containing the N2-deoxyguanosine adduct of the dietary carcinogen 2-amino-3-methylimidazo[4,5-f]quinoline. <i>Chemical Research in Toxicology</i> , 2007 , 20, 1972-9	4	10
27	The C8-2'-deoxyguanosine adduct of 2-amino-3-methylimidazo[1,2-d]naphthalene, a carbocyclic analogue of the potent mutagen 2-amino-3-methylimidazo[4,5-f]quinoline, is a block to replication in vitro. <i>Chemical Research in Toxicology</i> , 2010 , 23, 1076-88	4	9
26	Structure of an oligodeoxynucleotide containing a butadiene oxide-derived N1 beta-hydroxyalkyl deoxyinosine adduct in the human N-ras codon 61 sequence. <i>Biochemistry</i> , 2005 , 44, 3327-37	3.2	9
25	Replication bypass of the trans-4-Hydroxynonenal-derived (6S,8R,11S)-1,N(2)-deoxyguanosine DNA adduct by the <i>Sulfolobus solfataricus</i> DNA polymerase IV. <i>Chemical Research in Toxicology</i> , 2012 , 25, 4224-35	4.35	8
24	Structure of the 1,N(2)-etheno-2'-deoxyguanosine lesion in the 3'-G(epsilon dG)T-5' sequence opposite a one-base deletion. <i>Biochemistry</i> , 2010 , 49, 2615-26	3.2	8
23	Comparison of the in vitro replication of the 7-(2-oxoheptyl)-1,N2-etheno-2'-deoxyguanosine and 1,N2-etheno-2'-deoxyguanosine lesions by <i>Sulfolobus solfataricus</i> P2 DNA polymerase IV (Dpo4). <i>Chemical Research in Toxicology</i> , 2010 , 23, 1330-41	4	8
22	Stereoselective synthesis of the 1,N2-deoxyguanosine adducts of cinnamaldehyde. A stereocontrolled route to deoxyguanosine adducts of α -unsaturated aldehydes. <i>Tetrahedron Letters</i> , 2003 , 44, 7513-7516	2	8

21	Translesion Synthesis of the N(2)-2'-Deoxyguanosine Adduct of the Dietary Mutagen IQ in Human Cells: Error-Free Replication by DNA Polymerase ϵ and Mutagenic Bypass by DNA Polymerases ζ and Rev1. <i>Chemical Research in Toxicology</i> , 2016 , 29, 1549-59	4	8
20	Mutagenic potential of nitrogen mustard-induced formamidopyrimidine DNA adduct: Contribution of the non-canonical β isomer. <i>Journal of Biological Chemistry</i> , 2017 , 292, 18790-18799	5.4	7
19	Synthesis of the four stereoisomers of 2,3-epoxy-4-hydroxynonanal and their reactivity with deoxyguanosine. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 1960-71	3.9	7
18	X-ray crystal structures of conformationally biased flavin models. <i>Organic Letters</i> , 2000 , 2, 903-6	6.2	7
17	Simplified synthesis of individual stereoisomers of the 4-hydroxynonanal adducts of deoxyguanosine. <i>Tetrahedron Letters</i> , 2013 , 54, 4289-4291	2	6
16	Replication, repair, and translesion polymerase bypass of N ϵ -xopropenyl-2'-deoxyadenosine. <i>Biochemistry</i> , 2013 , 52, 8766-76	3.2	6
15	Error-prone replication bypass of the imidazole ring-opened formamidopyrimidine deoxyguanosine adduct. <i>Environmental and Molecular Mutagenesis</i> , 2017 , 58, 182-189	3.2	5
14	Base-Displaced Intercalated Conformation of the 2-Amino-3-methylimidazo[4,5-f]quinoline N(2)-dG DNA Adduct Positioned at the Nonreiterated G(1) in the NarI Restriction Site. <i>Chemical Research in Toxicology</i> , 2015 , 28, 1455-68	4	5
13	β -Hydroxy-1,N2-propano-2'-deoxyguanosine DNA adduct conjugates the N-terminal amine of the KWKK peptide via a carbinolamine linkage. <i>Chemical Research in Toxicology</i> , 2011 , 24, 1123-33	4	5
12	Ring-opening of the β DH-PdG adduct promotes error-free bypass by the <i>Sulfolobus solfataricus</i> DNA polymerase Dpo4. <i>Chemical Research in Toxicology</i> , 2013 , 26, 1348-60	4	3
11	The formamidopyrimidine derivative of 7-(2-oxoethyl)-2'-deoxyguanosine. <i>Chemical Research in Toxicology</i> , 2008 , 21, 1777-86	4	3
10	Kinetics of DNA Adducts and Abasic Site Formation in Tissues of Mice Treated with a Nitrogen Mustard. <i>Chemical Research in Toxicology</i> , 2020 , 33, 988-998	4	2
9	Synthesis of G--(CH)--G Trimethylene DNA interstrand cross-links. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2014 , 5, 5.14.1-5.14.15	0.5	2
8	Deoxyguanosine forms a bis-adduct with E,E-muconaldehyde, an oxidative metabolite of benzene: implications for the carcinogenicity of benzene. <i>Chemical Research in Toxicology</i> , 2011 , 24, 1944-56	4	2
7	Configurational and Conformational Equilibria of N-(2-Deoxy-d-erythro-pentofuranosyl)-2,6-diamino-3,4-dihydro-4-oxo-5-N-methylformamidopyrimidine (MeFapy-dG) Lesion in DNA. <i>Chemical Research in Toxicology</i> , 2018 , 31, 924-935	4	2
6	Enzymatic bypass and the structural basis of miscoding opposite the DNA adduct 1,N-ethenodeoxyguanosine by human DNA translesion polymerase ζ . <i>Journal of Biological Chemistry</i> , 2021 , 296, 100642	5.4	2
5	Interstrand DNA Cross-Linking 1,N2-Deoxyguanosine Adducts Derived from β Unsaturated Aldehydes: Structure-Function Relationships	201-216	2
4	Replication of N2,3-Ethenoguanine by DNA Polymerases. <i>Angewandte Chemie</i> , 2012 , 124, 5562-5565	3.6	1

- 3 1,N2-Etheno-2'-deoxyguanosine adopts the syn conformation about the glycosyl bond when mismatched with deoxyadenosine. *Chemical Research in Toxicology*, **2011**, 24, 1071-9 4 1
- 2 Synthesis of 2'-Deoxyribonucleosides: 5'-Di-O-Benzoylthymidine 162-162 1
- 1 9-Ethyl-3,6-Dimethylcarbazole (DMECZ) 153-153