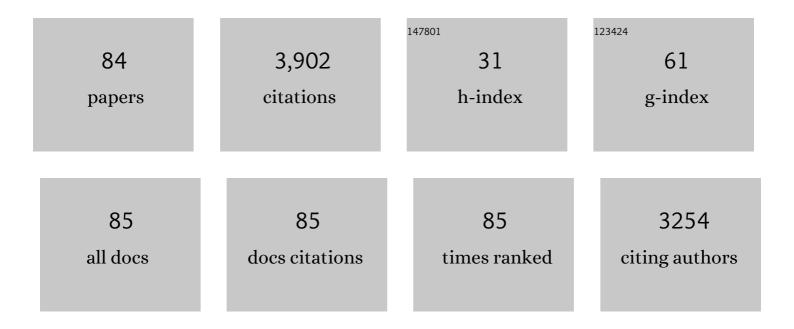
List of Publications by Year in descending order

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ACHICK RASH

#	Article	IF	CITATIONS
1	Mutagenicity of Nitroaromatic Compounds. Chemical Research in Toxicology, 2000, 13, 673-692.	3.3	397
2	DNA Damage, Mutagenesis and Cancer. International Journal of Molecular Sciences, 2018, 19, 970.	4.1	281
3	Unequivocal demonstration that malondialdehyde is a mutagen. Carcinogenesis, 1983, 4, 331-333.	2.8	262
4	Site-specifically modified oligodeoxynucleotides as probes for the structural and biological effects of DNA-damaging agents. Chemical Research in Toxicology, 1988, 1, 1-18.	3.3	229
5	Mutagenic and genotoxic effects of three vinyl chloride-induced DNA lesions: 1,N6-ethenoadenine, 3,N4-ethenocytosine, and 4-amino-5-(imidazol-2-yl)imidazole. Biochemistry, 1993, 32, 12793-12801.	2.5	196
6	Identification of adducts formed by reaction of guanine nucleosides with malondialdehyde and structurally related aldehydes. Chemical Research in Toxicology, 1988, 1, 53-59.	3.3	164
7	Genetic effects of oxidative DNA damages: comparative mutagenesis of the imidazole ring-opened formamidopyrimidines (Fapy lesions) and 8-oxo-purines in simian kidney cells. Nucleic Acids Research, 2006, 34, 2305-2315.	14.5	128
8	Nuclear Magnetic Resonance Solution Structures of Covalent Aromatic Amineâ^'DNA Adducts and Their Mutagenic Relevance. Chemical Research in Toxicology, 1998, 11, 391-407.	3.3	127
9	Targeted Deletion of mNth1 Reveals a Novel DNA Repair Enzyme Activity. Molecular and Cellular Biology, 2002, 22, 6111-6121.	2.3	102
10	Substrate Specificity of Human Endonuclease III (hNTH1). Journal of Biological Chemistry, 2003, 278, 9005-9012.	3.4	102
11	Ultrathin Graphene–Protein Supercapacitors for Miniaturized Bioelectronics. Advanced Energy Materials, 2017, 7, 1700358.	19.5	88
12	Reaction of malondialdehyde with guanine nucleosides: formation of adducts containing oxadiazabicyclononene residues in the base-pairing region. Journal of the American Chemical Society, 1986, 108, 1348-1350.	13.7	81
13	Replication Inhibition and Miscoding Properties of DNA Templates Containing a Site-Specific cis-Thymine Glycol or Urea Residue. Chemical Research in Toxicology, 1998, 11, 666-673.	3.3	81
14	Sequence Specific Mutagenesis of the Major (+)-anti-Benzo[a]pyrene Diol Epoxideâ^'DNA Adduct at a Mutational Hot Spotin Vitroand inEscherichia coliCells. Chemical Research in Toxicology, 1997, 10, 369-377.	3.3	79
15	Binding of the human nucleotide excision repair proteins XPA and XPC/HR23B to the 5 R -thymine glycol lesion and structure of the cis -(5 R ,6 S) thymine glycol epimer in the 5′-GTgG-3′ sequence: destabilization of two base pairs at the lesion site. Nucleic Acids Research, 2010, 38, 428-440.	14.5	73
16	Repair of mitomycin C mono- and interstrand cross-linked DNA adducts by UvrABC: a new model. Nucleic Acids Research, 2010, 38, 6976-6984.	14.5	59
17	Solution Conformation of theN-(Deoxyguanosin-8-yl)-1-aminopyrene ([AP]dG) Adduct Opposite dC in a DNA Duplexâ€. Biochemistry, 1996, 35, 12659-12670.	2.5	55
18	Mutagenicity of the 1-Nitropyrene-DNA Adduct <i>N</i> -(Deoxyguanosin-8-yl)-1-aminopyrene in Mammalian Cells. Chemical Research in Toxicology, 2007, 20, 1658-1664.	3.3	55

#	Article	IF	CITATIONS
19	Mutational Specificity of γ-Radiation-Induced Guanineâ^'Thymine and Thymineâ^'Guanine Intrastrand Cross-Links in Mammalian Cells and Translesion Synthesis Past the Guanineâ^'Thymine Lesion by Human DNA Polymerase Ε. Biochemistry, 2008, 47, 8070-8079.	2.5	52
20	Site-specifically alkylated oligodeoxynucleotides: Probes for mutagenesis, DNA repair and the structural effects of DNA damage. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1990, 233, 189-201.	1.0	51
21	(5′ <i>S</i>)-8,5′-Cyclo-2′-deoxyguanosine Is a Strong Block to Replication, a Potent pol V-Dependent Mutagenic Lesion, and Is Inefficiently Repaired in <i>Escherichia coli</i> . Biochemistry, 2011, 50, 3862-3865.	2.5	51
22	Distribution and oxidation of malondialdehyde in mice. Prostaglandins, 1985, 30, 241-254.	1.2	47
23	Recognition and Incision of Î ³ -Radiation-Induced Cross-Linked Guanineâ^'Thymine Tandem Lesion G[8,5-Me]T by UvrABC Nuclease. Chemical Research in Toxicology, 2005, 18, 1339-1346.	3.3	45
24	Structure of (5′ <i>S</i>)-8,5′-Cyclo-2′-deoxyguanosine in DNA. Journal of the American Chemical Society, 2011, 133, 20357-20368.	13.7	43
25	Site-Specific Frame-Shift Mutagenesis by the 1-Nitropyreneâ^DNA AdductN-(Deoxyguanosin-8-yl)-1-aminopyrene Located in the (CG)3Sequence:Â Effects of SOS, Proofreading, and Mismatch Repairâ€. Biochemistry, 1996, 35, 4568-4577.	2.5	41
26	Mutagenesis of 8-Oxoguanine Adjacent to an Abasic Site in Simian Kidney Cells:  Tandem Mutations and Enhancement of G→T Transversions. Chemical Research in Toxicology, 2005, 18, 1187-1192.	3.3	39
27	5-Formylcytosine mediated DNA–protein cross-links block DNA replication and induce mutations in human cells. Nucleic Acids Research, 2018, 46, 6455-6469.	14.5	39
28	Repair efficiency of (5′S)-8,5′-cyclo-2′-deoxyguanosine and (5′S)-8,5′-cyclo-2′-deoxyadenosine de complementary base. DNA Repair, 2012, 11, 926-931.	2.8 2.8	the 36
29	Repair of thymine glycol by hNth1 and hNeil1 is modulated by base pairing and cis–trans epimerization. DNA Repair, 2006, 5, 444-454.	2.8	35
30	DNA Damage, Mutagenesis, and DNA Repair. Journal of Nucleic Acids, 2010, 2010, 1-1.	1.2	34
31	Mechanistic Studies of the Bypass of a Bulky Single-base Lesion Catalyzed by a Y-family DNA Polymerase. Journal of Biological Chemistry, 2009, 284, 6379-6388.	3.4	33
32	Replicative Bypass of Abasic Site in Escherichia coli and Human Cells: Similarities and Differences. PLoS ONE, 2014, 9, e107915.	2.5	33
33	Inhibition of DNA replication fork progression and mutagenic potential of 1, N6-ethenoadenine and 8-oxoguanine in human cell extracts. Nucleic Acids Research, 2007, 36, 1300-1308.	14.5	30
34	Interconversion of the cis-5R,6S- and trans-5R,6R-Thymine Glycol Lesions in Duplex DNA. Journal of the American Chemical Society, 2008, 130, 11701-11710.	13.7	30
35	Tobacco-Specific Nitrosamine-Derived <i>O</i> ² -Alkylthymidines Are Potent Mutagenic Lesions in SOS-Induced <i>Escherichia coli</i> . Chemical Research in Toxicology, 2011, 24, 1833-1835.	3.3	29
36	Unlike Catalyzing Error-Free Bypass of 8-OxodGuo, DNA Polymerase λ Is Responsible for a Significant Part of FapyA·dG-Induced G → T Mutations in Human Cells. Biochemistry, 2015, 54, 1859-1862.	2.5	28

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37	Mutational Analysis of the C8-Guanine Adduct of the Environmental Carcinogen 3-Nitrobenzanthrone in Human Cells: Critical Roles of DNA Polymerases η and κ and Rev1 in Error-Prone Translesion Synthesis. Biochemistry, 2014, 53, 5323-5331.	2.5	27
38	Differential Incision of Bulky Carcinogenâ^'DNA Adducts by the UvrABC Nuclease:  Comparison of Incision Rates and the Interactions of Uvr Subunits with Lesions of Different Structures. Biochemistry, 2000, 39, 12252-12261.	2.5	25
39	Synthesis of N2 2â€~-Deoxyguanosine Adducts Formed by 1-Nitropyrene. Organic Letters, 2003, 5, 2861-2864.	4.6	25
40	Kinetic Analysis of the Bypass of a Bulky DNA Lesion Catalyzed by Human Y-Family DNA Polymerases. Chemical Research in Toxicology, 2012, 25, 730-740.	3.3	25
41	Mutagenicity of a Model DNA-Peptide Cross-Link in Human Cells: Roles of Translesion Synthesis DNA Polymerases. Chemical Research in Toxicology, 2017, 30, 669-677.	3.3	25
42	Synthesis and characterization of oligodeoxynucleotides containing N-(deoxyguanosin-8-yl)-1-aminopyrene. Tetrahedron Letters, 1993, 34, 2247-2250.	1.4	24
43	Replication of a carcinogenic nitropyrene DNA lesion by human Y-family DNA polymerase. Nucleic Acids Research, 2013, 41, 2060-2071.	14.5	24
44	Controlling the Graphene–Bio Interface: Dispersions in Animal Sera for Enhanced Stability and Reduced Toxicity. Langmuir, 2017, 33, 14184-14194.	3.5	23
45	Mutagenicity and Genotoxicity of (5′ <i>S</i>)-8,5′-Cyclo-2′-deoxyadenosine in <i>Escherichia coli</i> an Replication of (5′ <i>S</i>)-8,5′-Cyclopurine-2′-deoxynucleosides in Vitro by DNA Polymerase IV, Exo-Free Klenow Fragment, and Dpo4. Chemical Research in Toxicology, 2014, 27, 200-210.		22
46	Stability of <i>N</i> -Glycosidic Bond of (5′ <i>S</i>)-8,5′-Cyclo-2′-deoxyguanosine. Chemical Research in Toxicology, 2012, 25, 2451-2461.	3.3	21
47	Solution properties and computational analysis of an oligodeoxynucleotide containing N-(deoxyguanosin-8-yl)-1-aminopyrene. Carcinogenesis, 1996, 17, 133-144.	2.8	20
48	Structural Mechanism of Replication Stalling on a Bulky Amino-Polycyclic Aromatic Hydrocarbon DNA Adduct by a Y Family DNA Polymerase. Journal of Molecular Biology, 2013, 425, 4167-4176.	4.2	20
49	The Major Mitomycin Câ^'DNA Monoadduct Is Cytotoxic but Not Mutagenic inEscherichia coli. Chemical Research in Toxicology, 1998, 11, 64-69.	3.3	19
50	Mechanistic investigation of the bypass of a bulky aromatic DNA adduct catalyzed by a Y-family DNA polymerase. DNA Repair, 2014, 21, 65-77.	2.8	19
51	Roles of translesion synthesis DNA polymerases in the potent mutagenicity of tobacco-specific nitrosamine-derived O2-alkylthymidines in human cells. DNA Repair, 2015, 35, 63-70.	2.8	19
52	Comparative Mutagenesis of the C8-Guanine Adducts of 1-Nitropyrene and 1,6- and 1,8-Dinitropyrene in a CpG Repeat Sequence. Journal of Biological Chemistry, 2002, 277, 45068-45074.	3.4	18
53	Genetic Requirement for Mutagenesis of the G[8,5-Me]T Cross-Link in <i>Escherichia coli</i> : DNA Polymerases IV and V Compete for Error-Prone Bypass. Biochemistry, 2011, 50, 2330-2338.	2.5	18
54	Error-prone replication of a 5-formylcytosine-mediated DNA-peptide cross-link in human cells. Journal of Biological Chemistry, 2019, 294, 10619-10627.	3.4	18

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55	Structures of (5′ <i>S</i>)-8,5′-Cyclo-2′-deoxyguanosine Mismatched with dA or dT. Chemical Research in Toxicology, 2012, 25, 478-490.	3.3	17
56	DNA Adduct of the Mitomycin C Metabolite 2,7-Diaminomitosene Is a Nontoxic and Nonmutagenic DNA Lesion in Vitro and in Vivo. Chemical Research in Toxicology, 2005, 18, 213-223.	3.3	16
57	Chemically-Induced DNA Damage, Mutagenesis, and Cancer. International Journal of Molecular Sciences, 2018, 19, 1767.	4.1	16
58	DNA polymerases κ and ζ cooperatively perform mutagenic translesion synthesis of the C8–2â€2-deoxyguanosine adduct of the dietary mutagen IQ in human cells. Nucleic Acids Research, 2015, 43, 8340-8351.	14.5	15
59	Mutagenicity of the 1-Nitropyreneâ^'DNA Adduct N-(Deoxyguanosin-8-yl)-1-aminopyrene in Escherichia coli Located in a Nonrepetitive CGC Sequence. Chemical Research in Toxicology, 2000, 13, 523-528.	3.3	13
60	Quantitative analysis of the mutagenic potential of 1-aminopyrene-DNA adduct bypass catalyzed by Y-family DNA polymerases. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2012, 737, 25-33.	1.0	13
61	Biological relevance of oxidative debris present in as-prepared graphene oxide. RSC Advances, 2015, 5, 59364-59372.	3.6	13
62	Comparative Error-Free and Error-Prone Translesion Synthesis of <i>N</i> ² -2′-Deoxyguanosine Adducts Formed by Mitomycin C and Its Metabolite, 2,7-Diaminomitosene, in Human Cells. Chemical Research in Toxicology, 2016, 29, 933-939.	3.3	13
63	Nanoarmoring: strategies for preparation of multi-catalytic enzyme polymer conjugates and enhancement of high temperature biocatalysis. RSC Advances, 2017, 7, 29563-29574.	3.6	12
64	Mechanistic Basis for the Bypass of a Bulky DNA Adduct Catalyzed by a Y-Family DNA Polymerase. Journal of the American Chemical Society, 2015, 137, 12131-12142.	13.7	11
65	Translesion Synthesis of 2′-Deoxyguanosine Lesions by Eukaryotic DNA Polymerases. Chemical Research in Toxicology, 2017, 30, 61-72.	3.3	11
66	Reductive Metabolism of 1-Nitropyrene Accompanies Deamination of Cytosine. Chemical Research in Toxicology, 1994, 7, 823-828.	3.3	9
67	Debromination of 8-bromo-2′-deoxyguanosine by methylene blue and visible light. Tetrahedron Letters, 1999, 40, 1441-1444.	1.4	9
68	Synthesis and Characterization of Oligodeoxynucleotides Containing the Major DNA Adducts Formed by 1,6- and 1,8-Dinitropyrene. Organic Letters, 2000, 2, 1871-1874.	4.6	9
69	Translesion Synthesis of the <i>N</i> ² -2′-Deoxyguanosine Adduct of the Dietary Mutagen IQ in Human Cells: Error-Free Replication by DNA Polymerase l̂º and Mutagenic Bypass by DNA Polymerases l̂•, l̂¶, and Rev1. Chemical Research in Toxicology, 2016, 29, 1549-1559.	3.3	9
70	DNA polymerase action on an oligonucleotide containing a site-specifically located N-(deoxyguanosin-8-yl)-1-aminopyrene. Carcinogenesis, 1995, 16, 811-816.	2.8	8
71	Base-Displaced Intercalated Structure of the <i>N</i> -(2′-Deoxyguanosin-8-yl)-3-aminobenzanthrone DNA Adduct. Chemical Research in Toxicology, 2015, 28, 2253-2266.	3.3	8
72	Pre-steady-state kinetic investigation of bypass of a bulky guanine lesion by human Y-family DNA polymerases. DNA Repair, 2016, 46, 20-28.	2.8	8

#	Article	IF	CITATIONS
73	Sequence context effects of replication of Fapy•dG in three mutational hot spot sequences of the p53 gene in human cells. DNA Repair, 2021, 108, 103213.	2.8	8
74	Synthesis of Oligonucleotides Containing 2â€2-Deoxyguanosine Adducts of Nitropyrenes. Nucleosides, Nucleotides and Nucleic Acids, 2009, 28, 67-77.	1.1	7
75	Replication Past the -Radiation-Induced Guanine-Thymine Cross-Link G[8,5-Me]T by Human and Yeast DNA Polymerase. Journal of Nucleic Acids, 2010, 2010, 1-10.	1.2	7
76	Mechanism of Errorâ€Free Bypass of the Environmental Carcinogen <i>N</i> â€{2â€2â€Deoxyguanosinâ€8â€yl)â€3â€aminobenzanthrone Adduct by Human DNA Polymerase Ε. 2016, 17, 2033-2037.	ChenenBioC	hæn,
77	Structural Dynamics of a Common Mutagenic Oxidative DNA Lesion in Duplex DNA and during DNA Replication. Journal of the American Chemical Society, 2022, 144, 8054-8065.	13.7	6
78	Synthesis of malondialdehyde-1-2H and malondialdehyde-1,3-2H2. Journal of Labelled Compounds and Radiopharmaceuticals, 1985, 22, 1175-1179.	1.0	3
79	Mutagenic Effects of a 2-Deoxyribonolactone-Thymine Glycol Tandem DNA Lesion in Human Cells. Biochemistry, 2020, 59, 417-424.	2.5	3
80	Site-Specific Incorporation of <i>N</i> -(2′-Deoxyguanosine-8-yl)-6-aminochrysene Adduct in DNA and Its Replication in Human Cells. Chemical Research in Toxicology, 2020, 33, 1997-2005.	3.3	2
81	6-Nitrochrysene-Derived C8-2′-Deoxyadenosine Adduct: Synthesis of Site-Specific Oligodeoxynucleotides and Mutagenicity in Escherichia coli. Chemical Research in Toxicology, 2020, 33, 604-613.	3.3	2
82	Synthesis of Oligodeoxynucleotides Containing a C8â€2â€2â€Deoxyguanosine Adduct Formed by the Carcinogen 3â€Nitrobenzanthrone. Current Protocols in Nucleic Acid Chemistry, 2017, 69, 4.73.1-4.73.15.	0.5	1
83	Synthesis of [1,3, NH ₂ â€ ¹⁵ N ₃] (5′ <i>S</i>)â€8,5′â€cycloâ€2′â€ Journal of Labelled Compounds and Radiopharmaceuticals, 2013, 56, 376-381.	Edeoxygua 1.0	nosine.

Translesion synthesis of 6-nitrochrysene-derived $2\hat{E}^1$ -deoxyadenosine adduct in human cells. DNA Repair, 2.8 0 2020, 95, 102935.