

Alexander Kolbanovskiy

List of Publications by Year in descending order

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38
papers

1,387
citations

257450

24
h-index

330143

37
g-index

40
all docs

40
docs citations

40
times ranked

978
citing authors

#	ARTICLE	IF	CITATIONS
1	Translesion Synthesis by Human DNA Polymerase η on a DNA Template Containing a Single Stereoisomer of dG-(+)- or dG-($\hat{\sim}$)-anti-N2-BPDE (7,8-Dihydroxy-anti-9,10-epoxy-7,8,9,10-tetrahydrobenzo[a]pyrene) $\hat{\sim}$. <i>Biochemistry</i> , 2002, 41, 6100-6106.	2.5	155
2	The human DNA repair factor XPC-HR23B distinguishes stereoisomeric benzo[a]pyrenyl-DNA lesions. <i>EMBO Journal</i> , 2007, 26, 2923-2932.	7.8	94
3	Effects of Base Sequence Context on Translesion Synthesis Past a Bulky (+)-trans-anti-B[a]P-N2-dG Lesion Catalyzed by the Y-family Polymerase pol η . <i>Biochemistry</i> , 2003, 42, 2456-2466.	2.5	77
4	Formation of a G-tetrad and higher order structures correlates with biological activity of the RelA (NF- κ B p65) 'antisense' oligodeoxynucleotide. <i>Nucleic Acids Research</i> , 1997, 25, 2648-2656.	14.5	68
5	Resistance of bulky DNA lesions to nucleotide excision repair can result from extensive aromatic lesion $\hat{\sim}$ base stacking interactions. <i>Nucleic Acids Research</i> , 2011, 39, 8752-8764.	14.5	62
6	Nucleotide excision repair of 2-acetylaminofluorene- and 2-aminofluorene-(C8)-guanine adducts: molecular dynamics simulations elucidate how lesion structure and base sequence context impact repair efficiencies. <i>Nucleic Acids Research</i> , 2012, 40, 9675-9690.	14.5	61
7	Novel Enzymatic Function of DNA Polymerase η in Translesion DNA Synthesis Past Major Groove DNA $\hat{\sim}$ Peptide and DNA $\hat{\sim}$ DNA Cross-Links. <i>Chemical Research in Toxicology</i> , 2010, 23, 689-695.	3.3	57
8	Oxidative Generation of Guanine Radicals by Carbonate Radicals and Their Reactions with Nitrogen Dioxide to Form Site Specific 5-Guanidino-4-nitroimidazole Lesions in Oligodeoxynucleotides. <i>Chemical Research in Toxicology</i> , 2003, 16, 966-973.	3.3	55
9	Absolute Configurations of Spiroiminodihydantoin and Allantoin Stereoisomers: Comparison of Computed and Measured Electronic Circular Dichroism Spectra. <i>Chemical Research in Toxicology</i> , 2009, 22, 1189-1193.	3.3	52
10	Probing for DNA damage with $\hat{\sim}$ -hairpins: Similarities in incision efficiencies of bulky DNA adducts by prokaryotic and human nucleotide excision repair systems in vitro. <i>DNA Repair</i> , 2011, 10, 684-696.	2.8	49
11	Mirror image stereoisomers of the major benzo[a]pyrene N2-dG adduct are bypassed by different lesion-bypass DNA polymerases in <i>E. coli</i> . <i>DNA Repair</i> , 2006, 5, 515-522.	2.8	48
12	Mechanism of error-free and semitargeted mutagenic bypass of an aromatic amine lesion by Y-family polymerase Dpo4. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 379-388.	8.2	44
13	Synthesis and Characterization of Site-Specific and Stereoisomeric Fjord Dibenzo[a, <i>l</i>]pyrene Diol Epoxide $\hat{\sim}$ N6-Adenine Adducts: $\hat{\sim}$ Unusual Thermal Stabilization of Modified DNA Duplexes. <i>Chemical Research in Toxicology</i> , 2002, 15, 249-261.	3.3	42
14	Adenine $\hat{\sim}$ DNA Adducts Derived from the Highly Tumorigenic Dibenzo[<i>a</i> , <i>i</i>], <i>l</i>]pyrene Are Resistant to Nucleotide Excision Repair while Guanine Adducts Are Not. <i>Chemical Research in Toxicology</i> , 2013, 26, 783-793.	3.3	40
15	Photochemically Catalyzed Generation of Site-Specific 8-Nitroguanine Adducts in DNA by the Reaction of Long-Lived Neutral Guanine Radicals with Nitrogen Dioxide. <i>Chemical Research in Toxicology</i> , 2002, 15, 591-597.	3.3	37
16	Sequence Context- and Temperature-Dependent Nucleotide Excision Repair of a Benzo[a]pyrene Diol Epoxide-Guanine DNA Adduct Catalyzed by Thermophilic UvrABC Proteins $\hat{\sim}$. <i>Biochemistry</i> , 2007, 46, 7006-7015.	2.5	37
17	Photosensitized Oxidative DNA Damage: $\hat{\sim}$ From Hole Injection to Chemical Product Formation and Strand Cleavage. <i>Journal of the American Chemical Society</i> , 2007, 129, 9321-9332.	13.7	35
18	Solution Conformation of the ($\hat{\sim}$)-trans-anti-[BP]dG Adduct Opposite a Deletion Site in a DNA Duplex: $\hat{\sim}$ Intercalation of the Covalently Attached Benzo[a]pyrene into the Helix with Base Displacement of the Modified Deoxyguanosine into the Minor Groove $\hat{\sim}$. <i>Biochemistry</i> , 1997, 36, 13780-13790.	2.5	34

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19	Assignment of Absolute Configurations of the Enantiomeric Spiroiminodihydantoin Nucleobases by Experimental and Computational Optical Rotatory Dispersion Methods. <i>Chemical Research in Toxicology</i> , 2006, 19, 908-913.	3.3	33
20	Base Sequence Dependence of in Vitro Translesional DNA Replication past a Bulky Lesion Catalyzed by the Exo-Klenow Fragment of Pol β . <i>Biochemistry</i> , 2001, 40, 6660-6669.	2.5	32
21	Exocyclic amino groups of flanking guanines govern sequence-dependent adduct conformations and local structural distortions for minor groove-aligned benzo[a]pyrenyl-guanine lesions in a GG mutation hotspot context. <i>Nucleic Acids Research</i> , 2007, 35, 1555-1568.	14.5	32
22	Base Selectivity and Effects of Sequence and DNA Secondary Structure on the Formation of Covalent Adducts Derived from the Equine Estrogen Metabolite 4-Hydroxyequilenin. <i>Chemical Research in Toxicology</i> , 2005, 18, 1737-1747.	3.3	29
23	Role of Hydrophobic Effects in the Reaction of a Polynuclear Aromatic Diol Epoxide with Oligodeoxynucleotides in Aqueous Solutions. <i>Chemical Research in Toxicology</i> , 1998, 11, 381-388.	3.3	27
24	Impact of Benzo[a]pyrene-2 ϵ -deoxyguanosine Lesions On Methylation Of DNA by SssI and HhaI DNA Methyltransferases. <i>Biochemistry</i> , 2006, 45, 6142-6159.	2.5	26
25	Absolute configurations of DNA lesions determined by comparisons of experimental ECD and ORD spectra with DFT calculations. <i>Chirality</i> , 2009, 21, E231-41.	2.6	21
26	Mechanism of error-free replication across benzo[a]pyrene stereoisomers by Rev1 DNA polymerase. <i>Nature Communications</i> , 2017, 8, 965.	12.8	20
27	Human DNA polymerase β catalyzes lesion bypass across benzo[a]pyrene-derived DNA adduct during base excision repair. <i>DNA Repair</i> , 2012, 11, 367-373.	2.8	18
28	The stereochemistry of benzo[a]pyrene-2 ϵ -deoxyguanosine adducts affects DNA methylation by SssI and HhaI DNA methyltransferases. <i>FEBS Journal</i> , 2007, 274, 2121-2134.	4.7	15
29	Dnmt3a-CD Is Less Susceptible to Bulky Benzo[a]pyrene Diol Epoxide-Derived DNA Lesions Than Prokaryotic DNA Methyltransferases. <i>Biochemistry</i> , 2011, 50, 875-881.	2.5	15
30	Inefficient Nucleotide Excision Repair in Human Cell Extracts of the <i>N</i> -(Deoxyguanosin-8-yl)-6-aminochrysene and 5-(Deoxyguanosin- ² -yl)-6-aminochrysene Adducts Derived from 6-Nitrochrysene. <i>Chemical Research in Toxicology</i> , 2011, 24, 65-72.	3.3	11
31	Determination of Absolute Configurations of 4-Hydroxyequilenin-Cytosine and -Adenine Adducts by Optical Rotatory Dispersion, Electronic Circular Dichroism, Density Functional Theory Calculations, and Mass Spectrometry. <i>Chemical Research in Toxicology</i> , 2008, 21, 1739-1748.	3.3	9
32	NMR and Computational Studies of Stereoisomeric Equine Estrogen-Derived DNA Cytidine Adducts in Oligonucleotide Duplexes: Opposite Orientations of Diastereomeric Forms. <i>Biochemistry</i> , 2009, 48, 7098-7109.	2.5	9
33	Probing murine methyltransferase <i>Dnmt3a</i> interactions with benzo[a]pyrene ϵ -modified DNA by fluorescence methods. <i>FEBS Journal</i> , 2012, 279, 3965-3980.	4.7	8
34	Nuclear Magnetic Resonance Studies of an ² -Guanine Adduct Derived from the Tumorigen Dibenzo[a,h]pyrene in DNA: Impact of Adduct Stereochemistry, Size, and Local DNA Sequence on Solution Conformations. <i>Biochemistry</i> , 2014, 53, 1827-1841.	2.5	8
35	Human DNA polymerases catalyze lesion bypass across benzo[a]pyrene-derived DNA adduct clustered with an abasic site. <i>DNA Repair</i> , 2014, 24, 1-9.	2.8	6
36	The DNA damage-sensing NER repair factor XPC-RAD23B does not recognize bulky DNA lesions with a missing nucleotide opposite the lesion. <i>DNA Repair</i> , 2020, 96, 102985.	2.8	5

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37	Evidence for Higher-Order Structure Formation by the c-myc18-mer Phosphorothioate Antisense (Codons 2-7) Oligodeoxynucleotide: Potential Relationship to Antisense c-myc Inhibition. Oligonucleotides, 2001, 11, 87-97.	4.3	4
38	Radiolysis of normal heptane and its inhibition by dibenzyl sulfide and dibenzyl additions. The International Journal of Applied Radiation and Isotopes, 1959, 5, 57-62.	0.7	1