Suse Broyde

List of Publications by Year in descending order

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SUSE REOVE

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | NMR Solution Structures of Stereoisomeric Covalent Polycyclic Aromatic Carcinogenâ~'DNA Adducts: Principles, Patterns, and Diversity. Chemical Research in Toxicology, 1997, 10, 111-146. | 3.3 | 331 |
| 2 | Influence of benzo[a]pyrenediol epoxide chirality on solution conformations of DNA covalent adducts: the (-)-trans-anti-[BP]G.cntdot.C adduct structure and comparison with the (+)-trans-anti[BP]G.cntdot.C enantiomer. Biochemistry, 1992, 31, 5245-5252. | 2.5 | 176 |
| 3 | Solution conformation of the (+)-cis-anti-[BP]dG adduct in a DNA duplex: Intercalation of the covalently attached benzo[a]pyrenyl ring into the helix and displacement of the modified deoxyguanosine. Biochemistry, 1993, 32, 4145-4155. | 2.5 | 169 |
| 4 | Structural characterization of an N-acetyl-2-aminofluorene (AAF) modified DNA oligomer by NMR, energy minimization, and molecular dynamics. Biochemistry, 1993, 32, 2481-2497. | 2.5 | 143 |
| 5 | Thermodynamic and structural factors in the removal of bulky DNA adducts by the nucleotide excision repair machinery. Biopolymers, 2002, 65, 202-210. | 2.4 | 128 |
| 6 | 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 |
| 7 | The human DNA repair factor XPC-HR23B distinguishes stereoisomeric benzo[a]pyrenyl-DNA lesions. EMBO Journal, 2007, 26, 2923-2932. | 7.8 | 94 |
| 8 | Solution Conformation of the (-)-trans-anti-Benzo[c]phenanthrene-dA ([BPh]dA) Adduct opposite dT in a DNA Duplex: Intercalation of the Covalently Attached Benzo[c]phenanthrenyl Ring to the 3'-Side of the Adduct Site and Comparison with the (+)-trans-anti-[BPh]dA opposite dT Stereoisomer. Biochemistry, 1995, 34, 1295-1307. | 2.5 | 91 |
| 9 | Prediction of DNA structure from sequence: A build-up technique. Biopolymers, 1989, 28, 1195-1222. | 2.4 | 87 |
| 10 | Solution conformation of the (+)-trans-anti-[BPh]dA adduct opposite dT in a DNA duplex: Intercalation of the covalently attached benzo[c]phenanthrene to the 5'-side of the adduct site without disruption of the modified base pair. Biochemistry, 1993, 32, 12488-12497. | 2.5 | 87 |
| 11 | Solution Conformation of the (â^')-cis-anti-Benzo[a]pyrenyl-dG Adduct Opposite dC in a DNA Duplex: Intercalation of the Covalently Attached BP Ring into the Helix with Base Displacement of the Modified Deoxyguanosine into the Major Groove. Biochemistry, 1996, 35, 9850-9863. | 2.5 | 85 |
| 12 | Structural basis for the recognition of diastereomeric 5′,8-cyclo-2′-deoxypurine lesions by the human nucleotide excision repair system. Nucleic Acids Research, 2014, 42, 5020-5032. | 14.5 | 69 |
| 13 | Solution Structure of the Aminofluorene [AF]-Intercalated Conformer of thesyn-[AF]-C8-dG Adduct Opposite dC in a DNA Duplexâ€. Biochemistry, 1998, 37, 81-94. | 2.5 | 68 |
| 14 | The Sequence Dependence of Human Nucleotide Excision Repair Efficiencies of Benzo[a]pyrene-derived DNA Lesions: Insights into the Structural Factors that Favor Dual Incisions. Journal of Molecular Biology, 2009, 386, 1193-1203. | 4.2 | 67 |
| 15 | Molecular topology of polycyclic aromatic carcinogens determines DNA adduct conformation: a link to tumorigenic activity. Journal of Molecular Biology, 2001, 306, 1059-1080. | 4.2 | 63 |
| 16 | Solution Structure of the Aminofluorene [AF]-External Conformer of theanti-[AF]-C8-dG Adduct Opposite dC in a DNA Duplexâ€. Biochemistry, 1998, 37, 95-106. | 2.5 | 62 |
| 17 | Resistance of bulky DNA lesions to nucleotide excision repair can result from extensive aromatic lesion–base stacking interactions. Nucleic Acids Research, 2011, 39, 8752-8764. | 14.5 | 62 |
| 18 | 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. Nucleic Acids Research, 2012, 40, 9675-9690. | 14.5 | 61 |

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|----|--|------|-----------|
| 19 | DNA Adducts from a Tumorigenic Metabolite of Benzo[a]pyrene Block Human RNA Polymerase II Elongation in a Sequence- and Stereochemistry-dependent Manner. Journal of Molecular Biology, 2002, 321, 29-47. | 4.2 | 59 |
| 20 | Lesion processing: high-fidelity versus lesion-bypass DNA polymerases. Trends in Biochemical Sciences, 2008, 33, 209-219. | 7.5 | 59 |
| 21 | 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 |
| 22 | Molecular basis for damage recognition and verification by XPC-RAD23B and TFIIH in nucleotide excision repair. DNA Repair, 2018, 71, 33-42. | 2.8 | 55 |
| 23 | DNA Adduct Structure–Function Relationships: Comparing Solution with Polymerase Structures. Chemical Research in Toxicology, 2008, 21, 45-52. | 3.3 | 52 |
| 24 | Stereochemical, Structural, and Thermodynamic Origins of Stability Differences between Stereoisomeric Benzo[a]pyrene Diol Epoxide Deoxyadenosine Adducts in a DNA Mutational Hot Spot Sequence. Journal of the American Chemical Society, 2001, 123, 7054-7066. | 13.7 | 51 |
| 25 | Solution Conformation of the (+)-cis-anti-[BP]dG Adduct Opposite a Deletion Site in a DNA Duplex: Intercalation of the Covalently Attached Benzo[a]pyrene into the Helix with Base Displacement of the Modified Deoxyguanosine into the Minor Groove. Biochemistry, 1994, 33, 11518-11527. | 2.5 | 50 |
| 26 | Probing for DNA damage with β-hairpins: Similarities in incision efficiencies of bulky DNA adducts by prokaryotic and human nucleotide excision repair systems in vitro. DNA Repair, 2011, 10, 684-696. | 2.8 | 49 |
| 27 | Differential Nucleotide Excision Repair Susceptibility of Bulky DNA Adducts in Different Sequence Contexts: Hierarchies of Recognition Signals. Journal of Molecular Biology, 2009, 385, 30-44. | 4.2 | 48 |
| 28 | Repair-Resistant DNA Lesions. Chemical Research in Toxicology, 2017, 30, 1517-1548. | 3.3 | 48 |
| 29 | Structure and mechanism of pyrimidine–pyrimidone (6-4) photoproduct recognition by the Rad4/XPC nucleotide excision repair complex. Nucleic Acids Research, 2019, 47, 6015-6028. | 14.5 | 48 |
| 30 | Dynamics of a Benzo[a]pyrene-derived Guanine DNA Lesion in TGT and CGC Sequence Contexts: Enhanced Mobility in TGT Explains Conformational Heterogeneity, Flexible Bending, and Greater Susceptibility to Nucleotide Excision Repair. Journal of Molecular Biology, 2007, 374, 292-305. | 4.2 | 46 |
| 31 | Nucleotide Excision Repair Efficiencies of Bulky Carcinogen–DNA Adducts Are Governed by a Balance between Stabilizing and Destabilizing Interactions. Biochemistry, 2012, 51, 1486-1499. | 2.5 | 46 |
| 32 | Stereochemical Origin of Opposite Orientations in DNA Adducts Derived from Enantiomeric anti-Benzo[a]pyrene Diol Epoxides with Different Tumorigenic Potentials. Biochemistry, 1999, 38, 2956-2968. | 2.5 | 42 |
| 33 | Adenine–DNA Adducts Derived from the Highly Tumorigenic Dibenzo[<i>a</i> , <i>l</i>]pyrene Are Resistant to Nucleotide Excision Repair while Guanine Adducts Are Not. Chemical Research in Toxicology, 2013, 26, 783-793. | 3.3 | 40 |
| 34 | Solution Structure of the (+)-cis-anti-Benzo[a]pyrene-dA ([BP]dA) Adduct Opposite dT in a DNA Duplexâ€. Biochemistry, 1999, 38, 10831-10842. | 2.5 | 39 |
| 35 | 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 |
| 36 | Minor-Groove Binding Models for Acetylaminofluorene Modified DNA. Journal of Biomolecular Structure and Dynamics, 1989, 7, 493-513. | 3.5 | 37 |

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|----|---|------|-----------|
| 37 | Energy Minimized Structures of Carcinogen-DNA. Adducts: 2-Acetylaminofluorene and 2-Aminofluorene. Journal of Biomolecular Structure and Dynamics, 1986, 4, 365-372. | 3.5 | 35 |
| 38 | Solution Conformation of [AF]dG Opposite a -1 Deletion Site in a DNA Duplex: Intercalation of the Covalently Attached Aminofluorene Ring into the Helix with Base Displacement of the C8-Modified Syn Guanine into the Major Groove. Biochemistry, 1995, 34, 6226-6238. | 2.5 | 35 |
| 39 | Solution Conformation of the (â^')-trans-anti-[BP]dG Adduct Opposite a Deletion Site in a DNA Duplex:Â Intercalation of the Covalently Attached Benzo[a]pyrene into the Helix with Base Displacement of the Modified Deoxyguanosine into the Minor Grooveâ€. Biochemistry, 1997, 36, 13780-13790. | 2.5 | 34 |
| 40 | Distant Neighbor Base Sequence Context Effects in Human Nucleotide Excision Repair of a Benzo[a]pyrene-derived DNA Lesion. Journal of Molecular Biology, 2010, 399, 397-409. | 4.2 | 34 |
| 41 | Assignment of Absolute Configurations of the Enantiomeric Spiroiminodihydantoin Nucleobases by Experimental and Computational Optical Rotatory Dispersion Methods. Chemical Research in Toxicology, 2006, 19, 908-913. | 3.3 | 33 |
| 42 | Base Sequence Context Effects on Nucleotide Excision Repair. Journal of Nucleic Acids, 2010, 2010, 1-9. | 1.2 | 33 |
| 43 | The relationships between XPC binding to conformationally diverse DNA adducts and their excision by the human NER system: Is there a correlation?. DNA Repair, 2014, 19, 55-63. | 2.8 | 33 |
| 44 | Bypass of DNA-Protein Cross-links Conjugated to the 7-Deazaguanine Position of DNA by Translesion Synthesis Polymerases. Journal of Biological Chemistry, 2016, 291, 23589-23603. | 3.4 | 33 |
| 45 | 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. Nucleic Acids Research, 2007, 35, 1555-1568. | 14.5 | 32 |
| 46 | Nucleotide Excision Repair Lesion-Recognition Protein Rad4 Captures a Pre-Flipped Partner Base in a Benzo[<i>a</i>]pyrene-Derived DNA Lesion: How Structure Impacts the Binding Pathway. Chemical Research in Toxicology, 2017, 30, 1344-1354. | 3.3 | 32 |
| 47 | Carcinogen-base stacking and base-base stacking in dCpdG modified by (+) and (?)anti-BPDE. Biopolymers, 1985, 24, 2279-2299. | 2.4 | 31 |
| 48 | Origins of Conformational Differences between Cis and Trans DNA Adducts Derived from Enantiomeric anti-Benzo[a]Pyrene Diol Epoxides. Chemical Research in Toxicology, 1999, 12, 597-609. | 3.3 | 31 |
| 49 | An analysis of the structural and energetic properties of deoxyribose by potential energy methods. Journal of Computational Chemistry, 1987, 8, 1199-1224. | 3.3 | 29 |
| 50 | Solution Structure of theN-(Deoxyguanosin-8-yl)-1-aminopyrene ([AP]dG) Adduct Opposite dA in a DNA Duplexâ€. Biochemistry, 1999, 38, 10843-10854. | 2.5 | 29 |
| 51 | Structural, energetic and dynamic properties of guanine(C8)–thymine(N3) cross-links in DNA provide insights on susceptibility to nucleotide excision repair. Nucleic Acids Research, 2012, 40, 2506-2517. | 14.5 | 29 |
| 52 | Intercalative Conformations of the 14 <i>R</i> (+)- and 14 <i>S</i> (â~')- <i>trans-anti</i> -DB[<i>a,l</i>]P- <i>N</i> ⁶ -dA Adducts: Molecular Modeling and MD Simulations. Chemical Research in Toxicology, 2011, 24, 522-531. | 3.3 | 28 |
| 53 | Conformational Analysis of the Major DNA Adduct Derived from the Food Mutagen 2-Amino-3-methylimidazo[4,5-f]quinoline. Chemical Research in Toxicology, 1999, 12, 895-905. | 3.3 | 26 |
| 54 | Recognition of Damaged DNA for Nucleotide Excision Repair: A Correlated Motion Mechanism with a Mismatched <i>cis-syn</i> Thymine Dimer Lesion. Biochemistry, 2015, 54, 5263-5267. | 2.5 | 26 |

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|----|---|------|-----------|
| 55 | Solution Structures of Aminofluorene [AF]-Stacked Conformers of thesyn[AF]â^'C8-dG Adduct Positioned Opposite dC or dA at a Template-Primer Junctionâ€. Biochemistry, 1999, 38, 10855-10870. | 2.5 | 25 |
| 56 | Enhanced spontaneous DNA twisting/bending fluctuations unveiled by fluorescence lifetime distributions promote mismatch recognition by the Rad4 nucleotide excision repair complex. Nucleic Acids Research, 2018, 46, 1240-1255. | 14.5 | 23 |
| 57 | Role of Base Sequence Context in Conformational Equilibria and Nucleotide Excision Repair of Benzo[a]pyrene Diol Epoxideâ^'Adenine Adducts. Biochemistry, 2003, 42, 2339-2354. | 2.5 | 20 |
| 58 | Nucleosome Histone Tail Conformation and Dynamics: Impacts of Lysine Acetylation and a Nearby Minor Groove Benzo[<i>a</i>]pyrene-Derived Lesion. Biochemistry, 2017, 56, 1963-1973. | 2.5 | 20 |
| 59 | Lesion Sensing during Initial Binding by Yeast XPC/Rad4: Toward Predicting Resistance to Nucleotide Excision Repair. Chemical Research in Toxicology, 2018, 31, 1260-1268. | 3.3 | 20 |
| 60 | Conformational Determinants of Structures in Stereoisomeric Cis-Opened anti-Benzo[a]pyrene Diol Epoxide Adducts to Adenine in DNA. Chemical Research in Toxicology, 2000, 13, 811-822. | 3.3 | 19 |
| 61 | Ribonucleotides as nucleotide excision repair substrates. DNA Repair, 2014, 13, 55-60. | 2.8 | 19 |
| 62 | Free Energy Profiles of Base Flipping in Intercalative Polycyclic Aromatic Hydrocarbon-Damaged DNA Duplexes: Energetic and Structural Relationships to Nucleotide Excision Repair Susceptibility. Chemical Research in Toxicology, 2013, 26, 1115-1125. | 3.3 | 18 |
| 63 | Nucleotide Excision Repair and Impact of Site-Specific 5′,8-Cyclopurine and Bulky DNA Lesions on the Physical Properties of Nucleosomes. Biochemistry, 2019, 58, 561-574. | 2.5 | 18 |
| 64 | Transcriptional Bypass of DNA–Protein and DNA–Peptide Conjugates by T7 RNA Polymerase. ACS Chemical Biology, 2019, 14, 2564-2575. | 3.4 | 17 |
| 65 | Resistance to Nucleotide Excision Repair of Bulky Guanine Adducts Opposite Abasic Sites in DNA Duplexes and Relationships between Structure and Function. PLoS ONE, 2015, 10, e0137124. | 2.5 | 17 |
| 66 | Visualizing Sequence-Governed Nucleotide Selectivities and Mutagenic Consequences through a Replicative Cycle: Processing of a Bulky Carcinogen <i>N</i> ² -dG Lesion in a Y-Family DNA Polymerase. Biochemistry, 2009, 48, 4677-4690. | 2.5 | 16 |
| 67 | 5-Formylcytosine-induced DNA–peptide cross-links reduce transcription efficiency, but do not cause transcription errors in human cells. Journal of Biological Chemistry, 2019, 294, 18387-18397. | 3.4 | 16 |
| 68 | A Molecular Mechanics and Dynamics Study of the Minor Adduct between DNA and the Carcinogen 2-(Acetylamino)fluorene (dG-N2-AAF). Chemical Research in Toxicology, 1997, 10, 1123-1132. | 3.3 | 15 |
| 69 | Transcription of DNA containing the 5-guanidino-4-nitroimidazole lesion by human RNA polymerase II and bacteriophage T7 RNA polymerase. DNA Repair, 2008, 7, 1276-1288. | 2.8 | 15 |
| 70 | Role of Structural and Energetic Factors in Regulating Repair of a Bulky DNA Lesion with Different Opposite Partner Bases. Biochemistry, 2013, 52, 5517-5521. | 2.5 | 15 |
| 71 | Differences in the Access of Lesions to the Nucleotide Excision Repair Machinery in Nucleosomes. Biochemistry, 2015, 54, 4181-4185. | 2.5 | 15 |
| 72 | Rotational and translational positions determine the structural and dynamic impact of a single ribonucleotide incorporated in the nucleosome. DNA Repair, 2019, 73, 155-163. | 2.8 | 15 |

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| 73 | The Nonbulky DNA Lesions Spiroiminodihydantoin and 5-Guanidinohydantoin Significantly Block Human RNA Polymerase II Elongation <i>in Vitro</i> . Biochemistry, 2017, 56, 3008-3018. | 2.5 | 14 |
| 74 | Nuclear Magnetic Resonance Solution Structure of an N2-Guanine DNA Adduct Derived from the Potent Tumorigen Dibenzo[a,l]pyrene: Intercalation from the Minor Groove with Ruptured Watson–Crick Base Pairing. Biochemistry, 2012, 51, 9751-9762. | 2.5 | 12 |
| 75 | Entrapment of a Histone Tail by a DNA Lesion in a Nucleosome Suggests the Lesion Impacts Epigenetic Marking: A Molecular Dynamics Study. Biochemistry, 2016, 55, 239-242. | 2.5 | 10 |
| 76 | Synergistic effects of H3 and H4 nucleosome tails on structure and dynamics of a lesion-containing DNA: Binding of a displaced lesion partner base to the H3 tail for GG-NER recognition. DNA Repair, 2018, 65, 73-78. | 2.8 | 10 |
| 77 | Tethering-facilitated DNA â€~opening' and complementary roles of β-hairpin motifs in the Rad4/XPC DNA damage sensor protein. Nucleic Acids Research, 2020, 48, 12348-12364. | 14.5 | 9 |
| 78 | The Food Mutagen 2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline: A Conformational Analysis of Its Major DNA Adduct and Comparison with the 2-Amino-3-methylimidazo[4,5-f]quinoline Adduct. Chemical Research in Toxicology, 2001, 14, 476-482. | 3.3 | 8 |
| 79 | Nuclear Magnetic Resonance Studies of an <i>N</i> ² -Guanine Adduct Derived from the Tumorigen Dibenzo[<i>a</i> , <i>l</i>]pyrene in DNA: Impact of Adduct Stereochemistry, Size, and Local DNA Sequence on Solution Conformations. Biochemistry, 2014, 53, 1827-1841. | 2.5 | 8 |
| 80 | Translesion Synthesis Past 5-Formylcytosine-Mediated DNA–Peptide Cross-Links by hPoll̂· Is Dependent on the Local DNA Sequence. Biochemistry, 2021, 60, 1797-1807. | 2.5 | 8 |
| 81 | Molecular dynamics simulations reveal how H3K56 acetylation impacts nucleosome structure to promote DNA exposure for lesion sensing. DNA Repair, 2021, 107, 103201. | 2.8 | 8 |
| 82 | Variable impact of conformationally distinct DNA lesions on nucleosome structure and dynamics: Implications for nucleotide excision repair. DNA Repair, 2020, 87, 102768. | 2.8 | 7 |
| 83 | Mechanism of lesion verification by the human XPD helicase in nucleotide excision repair. Nucleic Acids Research, 2022, 50, 6837-6853. | 14.5 | 6 |
| 84 | Impact of DNA sequences on DNA â€~opening' by the Rad4/XPC nucleotide excision repair complex. DNA Repair, 2021, 107, 103194. | 2.8 | 5 |
| 85 | The DNA damage-sensing NER repair factor XPC-RAD23B does not recognize bulky DNA lesions with a missing nucleotide opposite the lesion. DNA Repair, 2020, 96, 102985. | 2.8 | 5 |
| 86 | Visualizing Spontaneous DNA Dynamics and its Role in Mismatch Recognition by Damage Recognition Protein Rad4. Biophysical Journal, 2018, 114, 85a. | 0.5 | 3 |
| 87 | Light-induced modulation of DNA recognition by the Rad4/XPC damage sensor protein. RSC Chemical Biology, 2021, 2, 523-536. | 4.1 | 3 |
| 88 | The molecular mechanics program DUPLEX: Computing structures of carcinogen modified DNA by surveying the potential energy surface. Molecular Engineering, 1995, 5, 219-227. | 0.2 | 0 |