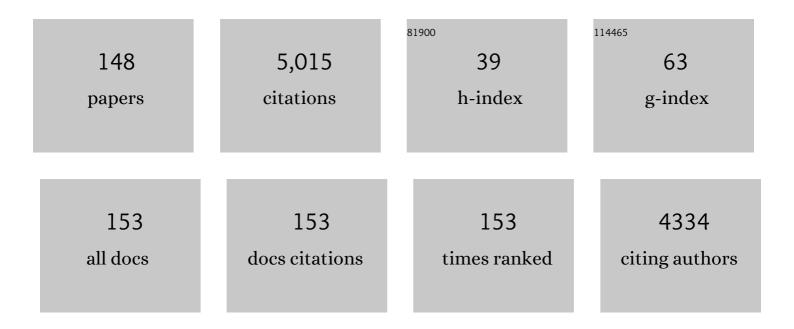
List of Publications by Year in descending order

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KENT S CATES

#	Article	IF	CITATIONS
1	An Overview of Chemical Processes That Damage Cellular DNA: Spontaneous Hydrolysis, Alkylation, and Reactions with Radicals. Chemical Research in Toxicology, 2009, 22, 1747-1760.	3.3	388
2	Biologically Relevant Chemical Reactions of N7-Alkylguanine Residues in DNA. Chemical Research in Toxicology, 2004, 17, 839-856.	3.3	223
3	Redox Regulation of Protein Tyrosine Phosphatases: Structural and Chemical Aspects. Antioxidants and Redox Signaling, 2011, 15, 77-97.	5.4	149
4	DNA Damage by Fasicularin. Journal of the American Chemical Society, 2005, 127, 15004-15005.	13.7	142
5	DNA Cleavage by the Antitumor Agent 3-Amino-1,2,4-benzotriazine 1,4-Dioxide (SR4233):  Evidence for Involvement of Hydroxyl Radical. Journal of the American Chemical Society, 1996, 118, 3380-3385.	13.7	130
6	Interstrand Cross-Links Generated by Abasic Sites in Duplex DNA. Journal of the American Chemical Society, 2007, 129, 1852-1853.	13.7	125
7	Redox-activated, hypoxia-selective DNA cleavage by quinoxaline 1,4-di-N-oxide. Bioorganic and Medicinal Chemistry, 2001, 9, 2395-2401.	3.0	120
8	Interstrand DNA–DNA Cross-Link Formation Between Adenine Residues and Abasic Sites in Duplex DNA. Journal of the American Chemical Society, 2014, 136, 3483-3490.	13.7	111
9	Oxidative DNA Cleavage by the Antitumor Antibiotic Leinamycin and Simple 1,2-Dithiolan-3-one 1-Oxides:Â Evidence for Thiol-Dependent Conversion of Molecular Oxygen to DNA-Cleaving Oxygen Radicals Mediated by Polysulfides. Journal of the American Chemical Society, 1997, 119, 11691-11692.	13.7	91
10	DNA Base Damage by the Antitumor Agent 3-Amino-1,2,4-benzotriazine 1,4-Dioxide (Tirapazamine). Journal of the American Chemical Society, 2003, 125, 11607-11615.	13.7	85
11	A Chemical Model for Redox Regulation of Protein Tyrosine Phosphatase 1B (PTP1B) Activity. Journal of the American Chemical Society, 2005, 127, 10830-10831.	13.7	83
12	On the Formation and Properties of Interstrand DNA–DNA Cross-Links Forged by Reaction of an Abasic Site with the Opposing Guanine Residue of 5′-CAp Sequences in Duplex DNA. Journal of the American Chemical Society, 2013, 135, 1015-1025.	13.7	80
13	Mechanisms of DNA Damage by Leinamycin. Chemical Research in Toxicology, 2000, 13, 953-956.	3.3	78
14	Direct Evidence for Bimodal DNA Damage Induced by Tirapazamine. Chemical Research in Toxicology, 1998, 11, 1254-1257.	3.3	75
15	Kinetics and Mechanism of Protein Tyrosine Phosphatase 1B Inactivation by Acrolein. Chemical Research in Toxicology, 2007, 20, 1315-1320.	3.3	74
16	1,2-Dithiolan-3-one 1-Oxides:Â A Class of Thiol-Activated DNA-Cleaving Agents That Are Structurally Related to the Natural Product Leinamycinâ€. Biochemistry, 1996, 35, 1768-1774.	2.5	70
17	Generation of reactive oxygen species by a persulfide (BnSSH). Bioorganic and Medicinal Chemistry Letters, 2005, 15, 3921-3924.	2.2	69
18	DNA Binding and Alkylation by the "Left Half―of Azinomycin B. Biochemistry, 2000, 39, 14968-14975.	2.5	66

#	Article	IF	CITATIONS
19	DNA Strand Cleavage by the Phenazine Di- <i>N</i> -oxide Natural Product Myxin under Both Aerobic and Anaerobic Conditions. Chemical Research in Toxicology, 2012, 25, 197-206.	3.3	66
20	Reaction of n-Propanethiol with 3H-1,2-Benzodithiol-3-one 1-Oxide and 5,5-Dimethyl-1,2-dithiolan-3-one 1-Oxide: Studies Related to the Reaction of Antitumor Antibiotic Leinamycin with DNA. Journal of Organic Chemistry, 1995, 60, 3964-3966.	3.2	65
21	Reaction of the Hypoxia-Selective Antitumor Agent Tirapazamine with a C1â€~-Radical in Single-Stranded and Double-Stranded DNA:Â The Drug and Its Metabolites Can Serve as Surrogates for Molecular Oxygen in Radical-Mediated DNA Damage Reactionsâ€. Biochemistry, 1999, 38, 14248-14255.	2.5	64
22	3-Amino-1,2,4-benzotriazine 4-Oxide:  Characterization of a New Metabolite Arising from Bioreductive Processing of the Antitumor Agent 3-Amino-1,2,4-benzotriazine 1,4-Dioxide (Tirapazamine). Journal of Organic Chemistry, 2001, 66, 107-114.	3.2	62
23	Characterization of DNA Damage Induced by a Natural Product Antitumor Antibiotic Leinamycin in Human Cancer Cells. Chemical Research in Toxicology, 2010, 23, 99-107.	3.3	60
24	DNA cleavage by 7-methylbenzopentathiepin: A simple analog of the antitumor antibiotic varacin. Bioorganic and Medicinal Chemistry Letters, 1998, 8, 535-538.	2.2	57
25	The Biological Buffer Bicarbonate/CO ₂ Potentiates H ₂ O ₂ -Mediated Inactivation of Protein Tyrosine Phosphatases. Journal of the American Chemical Society, 2011, 133, 15803-15805.	13.7	57
26	DNA Strand Damage Product Analysis Provides Evidence That the Tumor Cell-Specific Cytotoxin Tirapazamine Produces Hydroxyl Radical and Acts as a Surrogate for O ₂ . Journal of the American Chemical Society, 2007, 129, 12870-12877.	13.7	54
27	Initiation of DNA Strand Cleavage by 1,2,4-Benzotriazine 1,4-Dioxide Antitumor Agents: Mechanistic Insight from Studies of 3-Methyl-1,2,4-benzotriazine 1,4-Dioxide. Journal of the American Chemical Society, 2009, 131, 1015-1024.	13.7	54
28	Enzyme-Activated, Hypoxia-Selective DNA Damage by 3-Amino-2-quinoxalinecarbonitrile 1,4-Di-N-oxide. Chemical Research in Toxicology, 2004, 17, 1399-1405.	3.3	53
29	Synthesis and Biological Evaluation of New 2-Arylcarbonyl-3-trifluoromethylquinoxaline 1,4-Di-N-oxide Derivatives and Their Reduced Analogues. Journal of Medicinal Chemistry, 2007, 50, 5485-5492.	6.4	53
30	Evidence for Thiol-Dependent Production of Oxygen Radicals by 4-Methyl-5-pyrazinyl-3H-1,2-dithiole-3-thione (Oltipraz) and 3H-1,2-Dithiole-3-thione:  Possible Relevance to the Anticarcinogenic Properties of 1,2-Dithiole-3-thiones. Chemical Research in Toxicology, 1997, 10, 296-301.	3.3	49
31	Thiol-Independent DNA Alkylation by Leinamycin. Journal of the American Chemical Society, 2001, 123, 2060-2061.	13.7	49
32	Chemical Structure and Properties of Interstrand Cross-Links Formed by Reaction of Guanine Residues with Abasic Sites in Duplex DNA. Journal of the American Chemical Society, 2015, 137, 3933-3945.	13.7	49
33	Reaction of Thiols with 7-Methylbenzopentathiepin. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 1349-1352.	2.2	47
34	Thiol-Dependent Recovery of Catalytic Activity from Oxidized Protein Tyrosine Phosphatases. Biochemistry, 2013, 52, 6412-6423.	2.5	47
35	5-(Aminomethyl)-3-aryl-2-oxazolidinones. A novel class of mechanism-based inactivators of monoamine oxidase B. Journal of the American Chemical Society, 1990, 112, 9364-9372.	13.7	45
36	Kinetic Consequences of Replacing the Internucleotide Phosphorus Atoms in DNA with Arsenic. ACS Chemical Biology, 2011, 6, 127-130.	3.4	45

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37	Mimicking Ribosomal Unfolding of RNA Pseudoknot in a Protein Channel. Journal of the American Chemical Society, 2015, 137, 15742-15752.	13.7	45
38	Small Molecules That Mimic the Thiol-Triggered Alkylating Properties Seen in the Natural Product Leinamycin. Journal of the American Chemical Society, 2003, 125, 4996-4997.	13.7	43
39	Generation of DNA-Damaging Reactive Oxygen Species via the Autoxidation of Hydrogen Sulfide under Physiologically Relevant Conditions: Chemistry Relevant to Both the Genotoxic and Cell Signaling Properties of H ₂ S. Chemical Research in Toxicology, 2012, 25, 1609-1615.	3.3	43
40	Chemical Properties of the Leinamycinâ^'Guanine Adduct in DNA. Chemical Research in Toxicology, 2004, 17, 942-949.	3.3	40
41	Chemical and structural characterization of interstrand cross-links formed between abasic sites and adenine residues in duplex DNA. Nucleic Acids Research, 2015, 43, 3434-3441.	14.5	39
42	Oxidative DNA base damage by the antitumor agent 3-amino-1,2,4-benzotriazine 1,4-Dioxide (Tirapazamine). Bioorganic and Medicinal Chemistry Letters, 2002, 12, 2325-2329.	2.2	38
43	Sequence Specificity of DNA Alkylation by the Antitumor Natural Product Leinamycin. Chemical Research in Toxicology, 2003, 16, 1539-1546.	3.3	38
44	Protection of a single-cysteine redox switch from oxidative destruction: On the functional role of sulfenyl amide formation in the redox-regulated enzyme PTP1B. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 444-447.	2.2	37
45	Redox Regulation of Protein Tyrosine Phosphatase 1B by Peroxymonophosphate (O3POOH). Journal of the American Chemical Society, 2007, 129, 5320-5321.	13.7	36
46	Diethylaminobenzaldehyde Is a Covalent, Irreversible Inactivator of ALDH7A1. ACS Chemical Biology, 2015, 10, 693-697.	3.4	36
47	Total Synthesis and DNA-Cleaving Properties of Thiarubrine C. Journal of Organic Chemistry, 1998, 63, 8644-8645.	3.2	35
48	A mass spectrometry study of tirapazamine and its metabolites: Insights into the mechanism of metabolic transformations and the characterization of reaction intermediates. Journal of the American Society for Mass Spectrometry, 2003, 14, 881-892.	2.8	34
49	A role for the base excision repair enzyme NEIL3 in replication-dependent repair of interstrand DNA cross-links derived from psoralen and abasic sites. DNA Repair, 2017, 52, 1-11.	2.8	34
50	Reactions of 3H-1,2-benzodithiol-3-one 1-oxide with amines and anilines. Tetrahedron Letters, 1996, 37, 5337-5340.	1.4	33
51	Activation of Leinamycin by Thiols:  A Theoretical Study. Journal of Organic Chemistry, 2002, 67, 9054-9060.	3.2	33
52	Noncovalent DNA Binding Drives DNA Alkylation by Leinamycin: Evidence That the <i>Z</i> , <i>E</i> -(Thiazol-4-yl)-penta-2,4-dienone Moiety of the Natural Product Serves as an Atypical DNA Intercalator. Journal of the American Chemical Society, 2011, 133, 17641-17651.	13.7	31
53	Single Molecule Investigation of Ag+ Interactions with Single Cytosine-, Methylcytosine- and Hydroxymethylcytosine-Cytosine Mismatches in a Nanopore. Scientific Reports, 2014, 4, 5883.	3.3	31
54	Characterization of Interstrand DNA–DNA Cross-Links Using the α-Hemolysin Protein Nanopore. ACS Nano, 2015, 9, 11812-11819.	14.6	31

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55	Hypoxia-Selective, Enzymatic Conversion of 6-Nitroquinoline into a Fluorescent Helicene: Pyrido[3,2- <i>f</i>]quinolino[6,5- <i>c</i>]cinnoline 3-Oxide. Journal of Organic Chemistry, 2012, 77, 3531-3537.	3.2	29
56	Interstrand cross-links arising from strand breaks at true abasic sites in duplex DNA. Nucleic Acids Research, 2017, 45, 6275-6283.	14.5	29
57	Photochemical DNA Cleavage by the Antitumor Agent 3-Amino-1,2,4-benzotriazine 1,4-Dioxide (Tirapazamine, WIN 59075, SR4233). Journal of Organic Chemistry, 1998, 63, 10027-10030.	3.2	27
58	Covalent Modification of DNA by Natural Products. , 1999, , 491-552.		27
59	A Simple, High‥ield Synthesis of DNA Duplexes Containing a Covalent, Thermally Cleavable Interstrand Crossâ€Link at a Defined Location. Angewandte Chemie - International Edition, 2015, 54, 7666-7669.	13.8	26
60	Nanolock–Nanopore Facilitated Digital Diagnostics of Cancer Driver Mutation in Tumor Tissue. ACS Sensors, 2017, 2, 975-981.	7.8	26
61	Enzymatic Conversion of 6-Nitroquinoline to the Fluorophore 6-Aminoquinoline Selectively under Hypoxic Conditions. Chemical Research in Toxicology, 2013, 26, 555-563.	3.3	25
62	Redox Regulation of Protein Tyrosine Phosphatases. Methods in Enzymology, 2013, 528, 129-154.	1.0	25
63	Synthesis and noncovalent DNA-binding properties of thiazole derivatives related to leinamycin. Tetrahedron Letters, 2004, 45, 5711-5716.	1.4	24
64	Toward Hypoxia-Selective DNA-Alkylating Agents Built by Grafting Nitrogen Mustards onto the Bioreductively Activated, Hypoxia-Selective DNA-Oxidizing Agent 3-Amino-1,2,4-benzotriazine 1,4-Dioxide (Tirapazamine). Journal of Organic Chemistry, 2014, 79, 7520-7531.	3.2	24
65	A New Cross-Link for an Old Cross-Linking Drug: The Nitrogen Mustard Anticancer Agent Mechlorethamine Generates Cross-Links Derived from Abasic Sites in Addition to the Expected Drug-Bridged Cross-Links. Biochemistry, 2016, 55, 7033-7041.	2.5	24
66	Single Locked Nucleic Acid-Enhanced Nanopore Genetic Discrimination of Pathogenic Serotypes and Cancer Driver Mutations. ACS Nano, 2018, 12, 4194-4205.	14.6	24
67	Oxidative inactivation of protein tyrosine phosphatase 1B by organic hydroperoxides. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5856-5859.	2.2	23
68	DNA strand cleaving properties and hypoxia-selective cytotoxicity of 7-chloro-2-thienylcarbonyl-3-trifluoromethylquinoxaline 1,4-dioxide. Bioorganic and Medicinal Chemistry, 2010, 18, 3125-3132.	3.0	23
69	Unhooking of an interstrand cross-link at DNA fork structures by the DNA glycosylase NEIL3. DNA Repair, 2020, 86, 102752.	2.8	23
70	Photochemical Electron Transfer Reactions of Tirapazamine¶. Photochemistry and Photobiology, 2002, 75, 339.	2.5	22
71	On the Reaction Mechanism of Tirapazamine Reduction Chemistry: Unimolecular N–OH Homolysis, Stepwise Dehydration, or Triazene Ring-Opening. Chemical Research in Toxicology, 2012, 25, 634-645.	3.3	22
72	Covalent Allosteric Inactivation of Protein Tyrosine Phosphatase 1B (PTP1B) by an Inhibitor–Electrophile Conjugate. Biochemistry, 2017, 56, 2051-2060.	2.5	22

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73	Formation and Repair of an Interstrand DNA Cross-Link Arising from a Common Endogenous Lesion. Journal of the American Chemical Society, 2021, 143, 15344-15357.	13.7	22
74	Thiol-dependent DNA cleavage by 3 H -1,2-benzodithiol-3-one 1,1-dioxide. Bioorganic and Medicinal Chemistry Letters, 2000, 10, 885-889.	2.2	21
75	Photosensitization of Guanine-Specific DNA Damage by a Cyano-Substituted Quinoxaline Di-N-oxide. Chemical Research in Toxicology, 1999, 12, 1190-1194.	3.3	20
76	Characterization of Interstrand DNA–DNA Cross-Links Derived from Abasic Sites Using Bacteriophage I•29 DNA Polymerase. Biochemistry, 2015, 54, 4259-4266.	2.5	20
77	Unexpected Complexity in the Products Arising from NaOH-, Heat-, Amine-, and Glycosylase-Induced Strand Cleavage at an Abasic Site in DNA. Chemical Research in Toxicology, 2022, 35, 218-232.	3.3	20
78	Model studies for the mechanism of inactivation of monoamine oxidase by 5-(aminomethyl)-3-aryl-2-oxazolidinones. Journal of the American Chemical Society, 1989, 111, 8891-8895.	13.7	19
79	DNA Alkylation by leinamycin can be triggered by cyanide and phosphines. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 1511-1515.	2.2	19
80	Enzyme-Activated Generation of Reactive Oxygen Species from Heterocyclic <i>N</i> -Oxides under Aerobic and Anaerobic Conditions and Its Relevance to Hypoxia-Selective Prodrugs. Chemical Research in Toxicology, 2019, 32, 348-361.	3.3	19
81	A fluorimetric assay for the spontaneous release of an N7-alkylguanine residue from duplex DNA. Bioorganic and Medicinal Chemistry Letters, 2005, 15, 2111-2113.	2.2	18
82	Biologically relevant chemical properties of peroxymonophosphate (O3POOH). Bioorganic and Medicinal Chemistry Letters, 2009, 19, 218-221.	2.2	18
83	Stabilities and Spin Distributions of Benzannulated Benzyl Radicals. Journal of Chemical Theory and Computation, 2007, 3, 1091-1099.	5.3	17
84	Reactions of 1,3-Diketones with a Dipeptide Isothiazolidin-3-one: Toward Agents That Covalently Capture Oxidized Protein Tyrosine Phosphatase 1B. Journal of Organic Chemistry, 2015, 80, 12015-12026.	3.2	17
85	Sequence‧pecific Covalent Capture Coupled with Highâ€Contrast Nanopore Detection of a Diseaseâ€Đerived Nucleic Acid Sequence. ChemBioChem, 2017, 18, 1383-1386.	2.6	17
86	Formation and repair of unavoidable, endogenous interstrand cross-links in cellular DNA. DNA Repair, 2021, 98, 103029.	2.8	17
87	Synthesis and Structure of Functionalized Derivatives of the Cleft-Shaped Molecule Dithiosalicylide. Journal of Organic Chemistry, 1997, 62, 9361-9364.	3.2	16
88	Noncovalent DNA Binding and the Mechanism of Oxidative DNA Damage by Fecapentaene-12. Chemical Research in Toxicology, 2006, 19, 117-121.	3.3	16
89	The Chemical Reactions of DNA Damage and Degradation. , 0, , 333-378.		16
90	Near-Silence of Isothiocyanate Carbon in 13C NMR Spectra: A Case Study of Allyl Isothiocyanate. Journal of Organic Chemistry, 2015, 80, 4360-4369.	3.2	16

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91	Replication and repair of a reduced 2Î,,-deoxyguanosine-abasic site interstrand cross-link in human cells. Nucleic Acids Research, 2017, 45, 6486-6493.	14.5	16
92	Inactivation of protein tyrosine phosphatases by dietary isothiocyanates. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4549-4552.	2.2	15
93	Allylation and Alkylation of Biologically Relevant Nucleophiles by Diallyl Sulfides. Journal of Organic Chemistry, 2017, 82, 776-780.	3.2	15
94	Interstrand DNA Cross-Links Derived from Reaction of a 2-Aminopurine Residue with an Abasic Site. ACS Chemical Biology, 2019, 14, 1481-1489.	3.4	15
95	Inhibition, crystal structures, and in-solution oligomeric structure of aldehyde dehydrogenase 9A1. Archives of Biochemistry and Biophysics, 2020, 691, 108477.	3.0	15
96	Possible chemical mechanisms underlying the antitumor activity of S-deoxyleinamycin. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3076-3080.	2.2	14
97	Effective molarity in a nucleic acid-controlled reaction. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 2627-2630.	2.2	14
98	An autoinhibitory role for the GRF zinc finger domain of DNA glycosylase NEIL3. Journal of Biological Chemistry, 2020, 295, 15566-15575.	3.4	14
99	Isotopic Labeling Experiments That Elucidate the Mechanism of DNA Strand Cleavage by the Hypoxia-Selective Antitumor Agent 1,2,4-Benzotriazine 1,4-Di- <i>N</i> -oxide. Chemical Research in Toxicology, 2014, 27, 111-118.	3.3	13
100	Novel syntheses of dithiosalicylide. Tetrahedron Letters, 1995, 36, 1391-1394.	1.4	12
101	Covalent Adduct Formation between the Antihypertensive Drug Hydralazine and Abasic Sites in Double- and Single-Stranded DNA. Chemical Research in Toxicology, 2014, 27, 2113-2118.	3.3	12
102	Generation of Reactive Oxygen Species Mediated by 1-Hydroxyphenazine, a Virulence Factor of <i>Pseudomonas aeruginosa </i> . Chemical Research in Toxicology, 2015, 28, 175-181.	3.3	12
103	Exploiting the Inherent Photophysical Properties of the Major Tirapazamine Metabolite in the Development of Profluorescent Substrates for Enzymes That Catalyze the Bioreductive Activation of Hypoxia-Selective Anticancer Prodrugs. Journal of Organic Chemistry, 2018, 83, 3126-3131.	3.2	12
104	Entering the leinamycin rearrangement via 2-(trimethylsilyl)ethyl sulfoxides. Organic and Biomolecular Chemistry, 2007, 5, 1595.	2.8	11
105	DNA-catalyzed hydrolysis of DNA phosphodiesters. Nature Chemical Biology, 2009, 5, 710-711.	8.0	11
106	Inactivation of protein tyrosine phosphatases by oltipraz and other cancer chemopreventive 1,2-dithiole-3-thiones. Bioorganic and Medicinal Chemistry, 2010, 18, 5945-5949.	3.0	11
107	Thiol-Activated DNA Damage by α-Bromo-2-cyclopentenone. Chemical Research in Toxicology, 2011, 24, 217-228.	3.3	11
108	Synthesis and characterization of a small analogue of the anticancer natural product leinamycin. Bioorganic and Medicinal Chemistry, 2013, 21, 235-241.	3.0	11

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109	Structure of a Stable Interstrand DNA Cross-Link Involving a β- <i>N</i> -Glycosyl Linkage Between an <i>N</i> ⁶ -dA Amino Group and an Abasic Site. Biochemistry, 2021, 60, 41-52.	2.5	11
110	Electron and Spin-Density Analysis of Tirapazamine Reduction Chemistry. Chemical Research in Toxicology, 2012, 25, 620-633.	3.3	10
111	Covalent Modification of the Flavin in Proline Dehydrogenase by Thiazolidine-2-Carboxylate. ACS Chemical Biology, 2020, 15, 936-944.	3.4	10
112	The macrocycle of leinamycin imparts hydrolytic stability to the thiol-sensing 1,2-dithiolan-3-one 1-oxide unit of the natural product. Bioorganic and Medicinal Chemistry Letters, 2012, 22, 3791-3794.	2.2	9
113	Simple, Highâ€Yield Syntheses of DNA Duplexes Containing Interstrand DNAâ€DNA Crossâ€Links Between an <i>N</i> ⁴ â€Aminocytidine Residue and an Abasic Site. Current Protocols in Nucleic Acid Chemistry, 2016, 65, 5.16.1-5.16.15.	0.5	9
114	Application of Suzuki–Miyaura and Buchwald <i>–</i> Hartwig Crossâ€coupling Reactions to the Preparation of Substituted 1,2,4â€Benzotriazine 1â€Oxides Related to the Antitumor Agent Tirapazamine. Journal of Heterocyclic Chemistry, 2017, 54, 155-160.	2.6	9
115	Preparation and Purification of Oligodeoxynucleotide Duplexes Containing a Site-Specific, Reduced, Chemically Stable Covalent Interstrand Cross-Link Between a Guanine Residue and an Abasic Site. Methods in Molecular Biology, 2019, 1973, 163-175.	0.9	9
116	Interstrand Cross-Link Formation Involving Reaction of a Mispaired Cytosine Residue with an Abasic Site in Duplex DNA. Chemical Research in Toxicology, 2021, 34, 1124-1132.	3.3	9
117	Reconsidering the Chemical Nature of Strand Breaks Derived from Abasic Sites in Cellular DNA: Evidence for 3′-Glutathionylation. Journal of the American Chemical Society, 2022, 144, 10471-10482.	13.7	9
118	Abstracts, American Chemical Society Division of Chemical Toxicology, 236th ACS National Meeting, Philadelphia, PA, August 17â^'21, 2008. Chemical Research in Toxicology, 2008, 21, 2433-2453.	3.3	8
119	DNA cleavage induced by antitumor antibiotic leinamycin and its biological consequences. Bioorganic and Medicinal Chemistry, 2012, 20, 4413-4421.	3.0	8
120	FaPy lesions and DNA mutations. Nature Chemical Biology, 2013, 9, 412-414.	8.0	8
121	Products Generated by Amine-Catalyzed Strand Cleavage at Apurinic/Apyrimidinic Sites in DNA: New Insights from a Biomimetic Nucleoside Model System. Chemical Research in Toxicology, 2022, 35, 203-217.	3.3	8
122	Importance of the C-Terminus of Aldehyde Dehydrogenase 7A1 for Oligomerization and Catalytic Activity. Biochemistry, 2017, 56, 5910-5919.	2.5	7
123	Structural and biochemical consequences of pyridoxineâ€dependent epilepsy mutations that target the aldehyde binding site of aldehyde dehydrogenase ALDH 7A1. FEBS Journal, 2020, 287, 173-189.	4.7	7
124	Two (E,E)- and (Z,E)-thiazol-5-ylpenta-2,4-dienones. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, o447-o449.	0.4	6
125	Sulfone-stabilized carbanions for the reversible covalent capture of a posttranslationally-generated cysteine oxoform found in protein tyrosine phosphatase 1B (PTP1B). Bioorganic and Medicinal Chemistry, 2016, 24, 2631-2640.	3.0	6
126	Structural analysis of pathogenic mutations targeting Glu427 of ALDH7A1, the hot spot residue of pyridoxineâ€dependent epilepsy. Journal of Inherited Metabolic Disease, 2020, 43, 635-644.	3.6	6

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127	Title is missing!. Journal of Chemical Crystallography, 2001, 31, 387-391.	1.1	5
128	Getting under wraps: alkylating DNA in the nucleosome. Nature Chemical Biology, 2006, 2, 64-64.	8.0	5
129	Transferring oxygen isotopes to 1,2,4-benzotriazine 1-oxides forming the corresponding 1,4-dioxides by using the HOFA-CH3CN complex. Tetrahedron, 2012, 68, 8942-8944.	1.9	5
130	Oxidative activation of leinamycin E1 triggers alkylation of guanine residues in double-stranded DNA. Chemical Communications, 2018, 54, 256-259.	4.1	5
131	Selective covalent capture of a DNA sequence corresponding to a cancer-driving C>G mutation in the <i>KRAS</i> gene by a chemically reactive probe: optimizing a cross-linking reaction with non-canonical duplex structures. RSC Advances, 2019, 9, 32804-32810.	3.6	5
132	Crystal structure of a nucleoside model for the interstrand cross-link formed by the reaction of 2′-deoxyguanosine and an abasic site in duplex DNA. Acta Crystallographica Section E: Crystallographic Communications, 2016, 72, 624-627.	0.5	5
133	Crystal structure of 3H-1,2-benzodithiol-3-one 1-oxide. Journal of Chemical Crystallography, 1998, 28, 689-691.	1.1	4
134	Synthesis and Crystal Structure of the Azoxydichinyl Helicene, Pyrido[3,2-f]quinolino[6,5-c]cinnoline 5-Oxide Monohydrate. Journal of Chemical Crystallography, 2011, 41, 1712-1716.	1.1	4
135	What is the potential of nanolock– and nanocross–nanopore technology in cancer diagnosis?. Expert Review of Molecular Diagnostics, 2018, 18, 113-117.	3.1	4
136	Evidence for a Morin Type Intramolecular Cyclization of an Alkene with a Phenylsulfenic Acid Group in Neutral Aqueous Solution. Chemical Research in Toxicology, 2008, 21, 1368-1374.	3.3	3
137	Synthesis, Crystal Structure, and Rotational Energy Profile of 3-Cyclopropyl-1,2,4-benzotriazine 1,4-Di-N-oxide. Journal of Chemical Crystallography, 2010, 40, 624-629.	1.1	3
138	Generation and Single-Molecule Characterization of a Sequence-Selective Covalent Cross-Link Mediated by Mechlorethamine at a C–C Mismatch in Duplex DNA for Discrimination of a Disease-Relevant Single Nucleotide Polymorphism. Bioconjugate Chemistry, 2018, 29, 3810-3816.	3.6	3
139	Title is missing!. Journal of Chemical Crystallography, 1999, 29, 1133-1136.	1.1	2
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