Aziz Sancar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/703048/publications.pdf

Version: 2024-02-01

313 papers	33,356 citations	2675 95 h-index	5120 166 g-index
319 all docs	319 docs citations	319 times ranked	19172 citing authors

#	Article	IF	Citations
1	Molecular Mechanisms of Mammalian DNA Repair and the DNA Damage Checkpoints. Annual Review of Biochemistry, 2004, 73, 39-85.	11.1	2,836
2	Structure and Function of DNA Photolyase and Cryptochrome Blue-Light Photoreceptors. Chemical Reviews, 2003, 103, 2203-2238.	47.7	1,147
3	DNA Excision Repair. Annual Review of Biochemistry, 1996, 65, 43-81.	11.1	1,069
4	DNA Repair Enzymes. Annual Review of Biochemistry, 1988, 57, 29-67.	11.1	826
5	Dual role of TFIIH in DNA excision repair and in transcription by RNA polymerase II. Nature, 1994, 368, 769-772.	27.8	725
6	A novel repair enzyme: UVRABC excision nuclease of Escherichia coli cuts a DNA strand on both sides of the damaged region. Cell, 1983, 33, 249-260.	28.9	636
7	Structure and function of DNA photolyase. Biochemistry, 1994, 33, 2-9.	2.5	630
8	Reconstitution of Human DNA Repair Excision Nuclease in a Highly Defined System. Journal of Biological Chemistry, 1995, 270, 2415-2418.	3.4	431
9	Role of Mouse Cryptochrome Blue-Light Photoreceptor in Circadian Photoresponses. , 1998, 282, 1490-1494.		380
10	Reaction Mechanism of Human DNA Repair Excision Nuclease. Journal of Biological Chemistry, 1996, 271, 8285-8294.	3.4	320
11	Repair of Cisplatinâ^'DNA Adducts by the Mammalian Excision Nucleaseâ€. Biochemistry, 1996, 35, 10004-10013.	2.5	316
12	Identification of the uvrA gene product. Journal of Molecular Biology, 1981, 148, 45-62.	4.2	310
13	Loading of the human 9-1-1 checkpoint complex onto DNA by the checkpoint clamp loader hRad17-replication factor C complex in vitro. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 1633-1638.	7.1	295
14	Coupling of Human Circadian and Cell Cycles by the Timeless Protein. Molecular and Cellular Biology, 2005, 25, 3109-3116.	2.3	289
15	Nucleotide Excision Repair. Progress in Molecular Biology and Translational Science, 2005, 79, 183-235.	1.9	271
16	Putative Human Blue-Light Photoreceptors hCRY1 and hCRY2 Are Flavoproteinsâ€. Biochemistry, 1996, 35, 13871-13877.	2.5	267
17	Putative Blue-Light Photoreceptors from Arabidopsis thaliana and Sinapis alba with a High Degree of Sequence Homology to DNA Photolyase Contain the Two Photolyase Cofactors but Lack DNA Repair Activity. Biochemistry, 1995, 34, 6892-6899.	2.5	264
18	A cryptochrome/photolyase class of enzymes with single-stranded DNA-specific photolyase activity. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17696-17700.	7.1	264

#	Article	IF	Citations
19	DNA Repair: Enzymatic Mechanisms and Relevance to Drug Response. Journal of the National Cancer Institute, 1996, 88, 1346-1360.	6.3	244
20	Cryptochrome: The Second Photoactive Pigment in the Eye and Its Role in Circadian Photoreception. Annual Review of Biochemistry, 2000, 69, 31-67.	11.1	242
21	Guidelines for Genome-Scale Analysis of Biological Rhythms. Journal of Biological Rhythms, 2017, 32, 380-393.	2.6	237
22	Direct observation of thymine dimer repair in DNA by photolyase. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16128-16132.	7.1	233
23	NUCLEOTIDE EXCISION REPAIR. Photochemistry and Photobiology, 1993, 57, 905-921.	2.5	231
24	Human Transcription-Repair Coupling Factor CSB/ERCC6 Is a DNA-stimulated ATPase but Is Not a Helicase and Does Not Disrupt the Ternary Transcription Complex of Stalled RNA Polymerase II. Journal of Biological Chemistry, 1997, 272, 1885-1890.	3.4	231
25	The Human Tim/Tipin Complex Coordinates an Intra-S Checkpoint Response to UV That Slows Replication Fork Displacement. Molecular and Cellular Biology, 2007, 27, 3131-3142.	2.3	227
26	cis -Diammine(pyridine)chloroplatinum(II), a monofunctional platinum(II) antitumor agent: Uptake, structure, function, and prospects. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8902-8907.	7.1	222
27	Purification of PCNA as a nucleotide excision repair protein. Nucleic Acids Research, 1992, 20, 2441-2446.	14.5	218
28	Nucleotide excision repair: From E. coli to man. Biochimie, 1999, 81, 15-25.	2.6	215
29	Genome-wide analysis of human global and transcription-coupled excision repair of UV damage at single-nucleotide resolution. Genes and Development, 2015, 29, 948-960.	5.9	215
30	Circadian clock control of the cellular response to DNA damage. FEBS Letters, 2010, 584, 2618-2625.	2.8	212
31	Ultrafast Dynamics of Flavins in Five Redox States. Journal of the American Chemical Society, 2008, 130, 13132-13139.	13.7	206
32	Mechanisms of DNA Repair by Photolyase and Excision Nuclease (Nobel Lecture). Angewandte Chemie - International Edition, 2016, 55, 8502-8527.	13.8	201
33	Circadian control of XPA and excision repair of cisplatin-DNA damage by cryptochrome and HERC2 ubiquitin ligase. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4890-4895.	7.1	199
34	DNA Repair in Humans. Annual Review of Genetics, 1995, 29, 69-105.	7.6	197
35	DDB Accumulates at DNA Damage Sites Immediately after UV Irradiation and Directly Stimulates Nucleotide Excision Repair. Journal of Biological Chemistry, 2002, 277, 1637-1640.	3.4	197
36	Control of skin cancer by the circadian rhythm. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18790-18795.	7.1	191

#	Article	IF	Citations
37	Human DNA Repair Excision Nuclease. Journal of Biological Chemistry, 1995, 270, 20862-20869.	3.4	188
38	Dual modes of CLOCK:BMAL1 inhibition mediated by Cryptochrome and Period proteins in the mammalian circadian clock. Genes and Development, 2014, 28, 1989-1998.	5.9	187
39	Dynamics and mechanism of repair of ultraviolet-induced (6â€“4) photoproduct by photolyase. Nature, 2010, 466, 887-890.	27.8	186
40	The General Transcription-Repair Factor TFIIH Is Recruited to the Excision Repair Complex by the XPA Protein Independent of the TFIIE Transcription Factor. Journal of Biological Chemistry, 1995, 270, 4896-4902.	3.4	180
41	A new mechanism for repairing oxidative damage to DNA: (A)BC excinuclease removes AP sites and thymine glycols from DNA. Biochemistry, 1989, 28, 7979-7984.	2.5	179
42	Replication Protein A Confers Structure-specific Endonuclease Activities to the XPF-ERCC1 and XPG Subunits of Human DNA Repair Excision Nuclease. Journal of Biological Chemistry, 1996, 271, 11047-11050.	3.4	178
43	Order of Assembly of Human DNA Repair Excision Nuclease. Journal of Biological Chemistry, 1999, 274, 18759-18768.	3.4	177
44	Circadian oscillation of nucleotide excision repair in mammalian brain. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2864-2867.	7.1	174
45	Role of Structural Plasticity in Signal Transduction by the Cryptochrome Blue-Light Photoreceptorâ€. Biochemistry, 2005, 44, 3795-3805.	2.5	171
46	Where transcription meets repair. Cell, 1994, 77, 9-12.	28.9	169
47	Cryptochrome, Circadian Cycle, Cell Cycle Checkpoints, and Cancer. Cancer Research, 2005, 65, 6828-6834.	0.9	165
48	Structure and Function of Photolyase and in Vivo Enzymology: 50th Anniversary. Journal of Biological Chemistry, 2008, 283, 32153-32157.	3.4	163
49	Clock Regulation of Metabolites Reveals Coupling between Transcription and Metabolism. Cell Metabolism, 2017, 25, 961-974.e4.	16.2	162
50	The uvrB gene of Escherichia coli has both lexA-repressed and lexA-independent promoters. Cell, 1982, 28, 523-530.	28.9	161
51	Loss of cryptochrome reduces cancer risk in p53 mutant mice. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2841-2846.	7.1	161
52	DNA Damage in the Nucleosome Core Is Refractory to Repair by Human Excision Nuclease. Molecular and Cellular Biology, 2000, 20, 9173-9181.	2.3	160
53	Recognition and repair of the cyclobutane thymine dimer, a major cause of skin cancers, by the human excision nuclease. Genes and Development, 2003, 17, 2539-2551.	5.9	160
54	Active site of DNA photolyase: tryptophan-306 is the intrinsic hydrogen atom donor essential for flavin radical photoreduction and DNA repair in vitro. Biochemistry, 1991, 30, 6322-6329.	2.5	159

#	Article	IF	Citations
55	Preferential binding of ATR protein to UV-damaged DNA. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 6673-6678.	7.1	159
56	Reconstitution of Human Excision Nuclease with Recombinant XPF-ERCC1 Complex. Journal of Biological Chemistry, 1997, 272, 3833-3837.	3.4	154
57	PHOTOCHEMISTRY, PHOTOPHYSICS, AND MECHANISM OF PYRIMIDINE DIMER REPAIR BY DNA PHOTOLYASE. Photochemistry and Photobiology, 1993, 57, 895-904.	2.5	153
58	Characterization of Reaction Intermediates of Human Excision Repair Nuclease. Journal of Biological Chemistry, 1997, 272, 28971-28979.	3.4	151
59	Human nucleotide excision repairin vitro: repair of pyrimidine dimers, psoralen and cisplatin adducts by HeLa cell-free extract. Nucleic Acids Research, 1989, 17, 4471-4484.	14.5	150
60	Cisplatin DNA damage and repair maps of the human genome at single-nucleotide resolution. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11507-11512.	7.1	149
61	Genome-wide kinetics of DNA excision repair in relation to chromatin state and mutagenesis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2124-33.	7.1	146
62	Dynamics and mechanism of cyclobutane pyrimidine dimer repair by DNA photolyase. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14831-14836.	7.1	144
63	Reaction mechanism of Drosophila cryptochrome. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 516-521.	7.1	144
64	Identification of a neutral flavin radical and characterization of a second chromophore in Escherichia coli DNA photolyase. Biochemistry, 1984, 23, 2673-2679.	2.5	142
65	The Non-catalytic Function of XPG Protein during Dual Incision in Human Nucleotide Excision Repair. Journal of Biological Chemistry, 1997, 272, 16030-16034.	3.4	142
66	Clocks, cancer, and chronochemotherapy. Science, 2021, 371, .	12.6	142
67	Excision Repair in Mammalian Cells. Journal of Biological Chemistry, 1995, 270, 15915-15918.	3.4	141
68	The SWI/SNF Chromatin-Remodeling Factor Stimulates Repair by Human Excision Nuclease in the Mononucleosome Core Particle. Molecular and Cellular Biology, 2002, 22, 6779-6787.	2.3	139
69	Structure and Function of Transcription-Repair Coupling Factor. Journal of Biological Chemistry, 1995, 270, 4882-4889.	3.4	138
70	Overproduction, Purification, and Characterization of the XPC Subunit of the Human DNA Repair Excision Nuclease. Journal of Biological Chemistry, 1996, 271, 19451-19456.	3.4	138
71	Mammalian Period represses and de-represses transcription by displacing CLOCKâ€“BMAL1 from promoters in a Cryptochrome-dependent manner. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6072-E6079.	7.1	135
72	Inhibition of Nucleotide Excision Repair by the Cyclin-dependent Kinase Inhibitor p21. Journal of Biological Chemistry, 1995, 270, 22008-22016.	3.4	134

#	Article	IF	Citations
73	Reaction Mechanism of (6-4) Photolyase. Journal of Biological Chemistry, 1997, 272, 32580-32590.	3.4	133
74	Ultrafast Dynamics and Anionic Active States of the Flavin Cofactor in Cryptochrome and Photolyase. Journal of the American Chemical Society, 2008, 130, 7695-7701.	13.7	132
75	Sleep Deprivation Effects on Circadian Clock Gene Expression in the Cerebral Cortex Parallel Electroencephalographic Differences among Mouse Strains. Journal of Neuroscience, 2008, 28, 7193-7201.	3.6	131
76	Dynamic maps of UV damage formation and repair for the human genome. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6758-6763.	7.1	131
77	Differential damage and repair of DNA-adducts induced by anti-cancer drug cisplatin across mouse organs. Nature Communications, 2019, 10, 309.	12.8	131
78	Escherichia coli DNA photolyase is a flavoprotein. Journal of Molecular Biology, 1984, 172, 223-227.	4.2	126
79	Determination of rates and yields of interchromophore (folate .fwdarw. flavin) energy transfer and intermolecular (flavin .fwdarw. DNA) electron transfer in Escherichia coli photolyase by time-resolved fluorescence and absorption spectroscopy. Biochemistry, 1991, 30, 11262-11270.	2.5	125
80	Regulation of the Mammalian Circadian Clock by Cryptochrome. Journal of Biological Chemistry, 2004, 279, 34079-34082.	3.4	122
81	Circadian Clock, Cancer, and Chemotherapy. Biochemistry, 2015, 54, 110-123.	2.5	122
82	Light Induction of a Vertebrate Clock Gene Involves Signaling through Blue-Light Receptors and MAP Kinases. Current Biology, 2002, 12, 844-848.	3.9	121
83	Effect of base, pentose, and phosphodiester backbone structures on binding and repair of pyrimidine dimers by Escherichia coli DNA photolyase. Biochemistry, 1991, 30, 8623-8630.	2.5	120
84	Reconstitution of RPA-covered single-stranded DNA-activated ATR-Chk1 signaling. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13660-13665.	7.1	116
85	DNA Interstrand Cross-Links Induce Futile Repair Synthesis in Mammalian Cell Extracts. Molecular and Cellular Biology, 2000, 20, 2446-2454.	2.3	115
86	Purification and Characterization of the XPF-ERCC1 Complex of Human DNA Repair Excision Nuclease. Journal of Biological Chemistry, 1995, 270, 22657-22660.	3.4	113
87	The active form of Escherichia coli DNA photolyase contains a fully reduced flavin and not a flavin radical, both in vivo and in vitro. Biochemistry, 1987, 26, 7121-7127.	2.5	112
88	Structure and Function of Transcription-Repair Coupling Factor. Journal of Biological Chemistry, 1995, 270, 4890-4895.	3.4	111
89	Photochemistry and Photobiology of Cryptochrome Blue-light Photopigments: The Search for a Photocycle. Photochemistry and Photobiology, 2005, 81, 1291.	2.5	111
90	Biochemical Analysis of the Canonical Model for the Mammalian Circadian Clock. Journal of Biological Chemistry, 2011, 286, 25891-25902.	3.4	109

#	Article	IF	Citations
91	Regulation of nucleotide excision repair activity by transcriptional and post-transcriptional control of the XPA protein. Nucleic Acids Research, 2011, 39, 3176-3187.	14.5	108
92	Amplification of single-strand DNA binding protein in Escherichis coli. Nucleic Acids Research, 1980, 8, 3215-3228.	14.5	105
93	Structures of the Human Rad17-Replication Factor C and Checkpoint Rad 9-1-1 Complexes Visualized by Glycerol Spray/Low Voltage Microscopy. Journal of Biological Chemistry, 2002, 277, 15233-15236.	3.4	104
94	Identification of the uvrB gene product. Journal of Molecular Biology, 1981, 148, 63-76.	4.2	103
95	(A)BC excinuclease: the Escherichia coli nucleotide excision repair enzyme. Molecular Microbiology, 1992, 6, 2219-2224.	2.5	103
96	Animal Type 1 Cryptochromes. Journal of Biological Chemistry, 2008, 283, 3256-3263.	3.4	103
97	Photolyase/cryptochrome blue-light photoreceptors use photon energy to repair DNA and reset the circadian clock. Oncogene, 2002, 21, 9043-9056.	5.9	102
98	Absolute action spectrum of E-FADH2 and E-FADH2-MTHF forms of Escherichia coli DNA photolyase. Biochemistry, 1990, 29, 7715-7727.	2.5	101
99	Tipin-Replication Protein A Interaction Mediates Chk1 Phosphorylation by ATR in Response to Genotoxic Stress. Journal of Biological Chemistry, 2010, 285, 16562-16571.	3.4	99
100	Nucleotide Excision Repair from Site-Specifically Platinum-Modified Nucleosomesâ€. Biochemistry, 2003, 42, 6747-6753.	2.5	98
101	Quaternary Structure of ATR and Effects of ATRIP and Replication Protein A on Its DNA Binding and Kinase Activities. Molecular and Cellular Biology, 2004, 24, 1292-1300.	2.3	97
102	Sequences of theE. coli uvrCgene and protein. Nucleic Acids Research, 1984, 12, 4593-4608.	14.5	96
103	Cloning of uvrA, lexC and ssb genes of Escherichia coli. Biochemical and Biophysical Research Communications, 1979, 90, 123-129.	2.1	95
104	Regulation of apoptosis by the circadian clock through NF-ÎºB signaling. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 12036-12041.	7.1	95
105	Sequences of theE. coli uvrBgene and protein. Nucleic Acids Research, 1986, 14, 2637-2650.	14.5	93
106	DNA Repair Excision Nuclease Attacks Undamaged DNA. Journal of Biological Chemistry, 2001, 276, 25421-25426.	3.4	93
107	Determination of plasmid molecular weights from ultraviolet sensitivities. Nature, 1978, 272, 471-472.	27.8	92
108	Purification and Characterization of Three Members of the Photolyase/Cryptochrome Family Blue-light Photoreceptors from Vibrio cholerae. Journal of Biological Chemistry, 2003, 278, 39143-39154.	3.4	92

#	Article	IF	Citations
109	Model for XPC-independent Transcription-coupled Repair of Pyrimidine Dimers in Humans. Journal of Biological Chemistry, 1997, 272, 7570-7573.	3.4	91
110	Binding ofE. coliDNA photolyase to a defined substrate containing a single T< >T dimer. Nucleic Acids Research, 1987, 15, 1109-1120.	14.5	90
111	Picosecond laser photolysis studies on the photorepair of pyrimidine dimers by DNA photolyase. 1. Laser photolysis of photolyase-2-deoxyuridine dinucleotide photodimer complex. Journal of the American Chemical Society, 1991, 113, 3143-3145.	13.7	90
112	The human Rad9-Rad1-Hus1 checkpoint complex stimulates flap endonuclease 1. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16762-16767.	7.1	90
113	Blue-light-receptive cryptochrome is expressed in a sponge eye lacking neurons and opsin. Journal of Experimental Biology, 2012, 215, 1278-1286.	1.7	90
114	Circadian regulation of cryptochrome genes in the mouse. Molecular Brain Research, 1999, 71, 238-243.	2.3	88
115	Nucleotide Excision Repair in Human Cells. Journal of Biological Chemistry, 2013, 288, 20918-20926.	3.4	88
116	Nucleotide Excision Repair in E. Coli and Man. Advances in Protein Chemistry, 2004, 69, 43-71.	4.4	87
117	Posttranslational regulation of the mammalian circadian clock by cryptochrome and protein phosphatase 5. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10467-10472.	7.1	85
118	Energy transfer (deazaflavin .fwdarw. FADH2) and electron transfer (FADH2 .fwdarw.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (T.lt	2.5	84
119	Origin of the Transient Electron Paramagnetic Resonance Signals in DNA Photolyaseâ€. Biochemistry, 1999, 38, 3857-3866.	2.5	84
120	Molecular mechanism of the repressive phase of the mammalian circadian clock. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	84
121	Determining complete electron flow in the cofactor photoreduction of oxidized photolyase. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12966-12971.	7.1	83
122	LexA protein inhibits transcription of the E. coli uvrA gene in vitro. Nature, 1982, 298, 96-98.	27.8	81
123	Repair of DNA-polypeptide crosslinks by human excision nuclease. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 4056-4061.	7.1	81
124	Formation and Function of Flavin Anion Radical in Cryptochrome 1 Blue-Light Photoreceptor of Monarch Butterfly. Journal of Biological Chemistry, 2007, 282, 17608-17612.	3.4	81
125	Mechanism of Release and Fate of Excised Oligonucleotides during Nucleotide Excision Repair. Journal of Biological Chemistry, 2012, 287, 22889-22899.	3.4	81
126	Repair of psoralen and acetylaminofluorene DNA adducts by ABC excinuclease. Journal of Molecular Biology, 1985, 184, 725-734.	4.2	80

#	Article	IF	Citations
127	Photochemical properties of Escherichia coli DNA photolyase: selective photodecomposition of the second chromophore. Biochemistry, 1987, 26, 4634-4640.	2.5	78
128	Electron microscopic study of (A)BC excinuclease. Journal of Molecular Biology, 1992, 226, 425-432.	4.2	78
129	New trends in photobiology. Journal of Photochemistry and Photobiology B: Biology, 1993, 17, 219-228.	3.8	78
130	Substrate and Temperature Dependence of DNA Photolyase Repair Activity Examined with Ultrafast Spectroscopy. Journal of the American Chemical Society, 1997, 119, 10532-10536.	13.7	78
131	Human Blueâ€light Photoreceptor hCRY2 Specifically Interacts with Protein Serine/Threonine Phosphatase 5 and Modulates Its Activity. Photochemistry and Photobiology, 1997, 66, 727-731.	2.5	78
132	Circadian regulation of DNA excision repair: Implications for chrono-chemotherapy. Cell Cycle, 2009, 8, 1665-1667.	2.6	77
133	Structure and Function of the UvrB Protein. Journal of Biological Chemistry, 1995, 270, 8319-8327.	3.4	76
134	Analysis of the Role of Intraprotein Electron Transfer in Photoreactivation by DNA Photolyasein Vivoâ€. Biochemistry, 2004, 43, 15103-15110.	2.5	76
135	Femtosecond Dynamics of DNA Photolyase:Â Energy Transfer of Antenna Initiation and Electron Transfer of Cofactor Reduction. Journal of Physical Chemistry B, 2004, 108, 18026-18033.	2.6	76
136	Human genome-wide repair map of DNA damage caused by the cigarette smoke carcinogen benzo[a]pyrene. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6752-6757.	7.1	76
137	Excited-state properties of Escherichia coli DNA photolyase in the picosecond to millisecond time scale. Biochemistry, 1990, 29, 5694-5698.	2.5	74
138	Molecular Anatomy of the Human Excision Nuclease Assembled at Sites of DNA Damage. Molecular and Cellular Biology, 2002, 22, 5938-5945.	2.3	74
139	EPR, ENDOR, and TRIPLE Resonance Spectroscopy on the Neutral Flavin Radical in Escherichia coli DNA Photolyase. Biochemistry, 1999, 38, 16740-16748.	2.5	73
140	Identification of oligothymidylates as new simple substrates for E. coli DNA photolyase and their use in a rapid spectrophotometric enzyme assay. Biochemistry, 1985, 24, 1856-1861.	2.5	72
141	Binding of Escherichia coli DNA photolyase to UV-irradiated DNA. Biochemistry, 1985, 24, 1849-1855.	2.5	71
142	Ramshackle (Brwd3) promotes light-induced ubiquitylation of Drosophila Cryptochrome by DDB1-CUL4-ROC1 E3 ligase complex. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4980-4985.	7.1	71
143	Genome-wide transcription-coupled repair in Escherichia coli is mediated by the Mfd translocase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2116-E2125.	7.1	71
144	Structure and function of the (A) BC excinuclease of Escherichia coli. Mutation Research DNA Repair, 1990, 236, 203-211.	3.7	70

#	Article	IF	Citations
145	Reconstitution of Escherichia coli photolyase with flavins and flavin analogs. Biochemistry, 1990, 29, 5706-5711.	2.5	70
146	Human DNA Damage Checkpoint Protein hRAD9 Is a 3â€² to 5â€² Exonuclease. Journal of Biological Chemistry, 2000, 275, 7451-7454.	3.4	70
147	Purification and Properties of Human Blue-Light Photoreceptor Cryptochrome 2â€. Biochemistry, 2003, 42, 2926-2932.	2.5	70
148	Ultrafast solvation dynamics at binding and active sites of photolyases. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2914-2919.	7.1	70
149	Cloning of the phr gene and amplification of photolyase in Escherichia coli. Gene, 1978, 4, 295-308.	2.2	68
150	Active site of Escherichia coli DNA photolyase: mutations at Trp277 alter the selectivity of the enzyme without affecting the quantum yield of photorepair. Biochemistry, 1990, 29, 5698-5706.	2.5	68
151	Identification of the different intermediates in the interaction of (A)BC excinuclease with its substrates by DNase I footprinting on two uniquely modified oligonucleotides. Journal of Molecular Biology, 1991, 219, 27-36.	4.2	68
152	RecA-dependent incision of psoralen-crosslinked DNA by (A)BC excinuclease. Nucleic Acids Research, 1991, 19, 657-663.	14.5	68
153	Recruitment of DNA Damage Checkpoint Proteins to Damage in Transcribed and Nontranscribed Sequences. Molecular and Cellular Biology, 2006, 26, 39-49.	2.3	68
154	RNA polymerase: The most specific damage recognition protein in cellular responses to DNA damage?. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13213-13214.	7.1	68
155	Interactions of Human Mismatch Repair Proteins MutSÎ± and MutLÎ± with Proteins of the ATR-Chk1 Pathway. Journal of Biological Chemistry, 2010, 285, 5974-5982.	3.4	68
156	Photolyase and Cryptochrome Blue-Light Photoreceptors. Advances in Protein Chemistry, 2004, 69, 73-100.	4.4	67
157	SREBP1c-CRY1 signalling represses hepatic glucose production by promoting FOXO1 degradation during refeeding. Nature Communications, 2016, 7, 12180.	12.8	67
158	Xeroderma Pigmentosum Group C Splice Mutation Associated with Autism and Hypoglycinemia11An abstract of this manuscript was presented at the annual meeting of the Society for Investigative Dermatology in Washington, DC. Journal of Investigative Dermatology, 1998, 111, 791-796.	0.7	66
159	Expression of the Blue-Light Receptor Cryptochrome in the Human Retina. , 2003, 44, 4515.		66
160	Human Claspin Is a Ring-shaped DNA-binding Protein with High Affinity to Branched DNA Structures. Journal of Biological Chemistry, 2004, 279, 39289-39295.	3.4	66
161	Cdc7-Dbf4 and the Human S Checkpoint Response to UVC. Journal of Biological Chemistry, 2007, 282, 9458-9468.	3.4	66
162	Cisplatin-DNA adduct repair of transcribed genes is controlled by two circadian programs in mouse tissues. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4777-E4785.	7.1	65

#	Article	IF	Citations
163	Reconstitution of a human ATR-mediated checkpoint response to damaged DNA. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13301-13306.	7.1	64
164	Molecular mechanisms and genomic maps of DNA excision repair in Escherichia coli and humans. Journal of Biological Chemistry, 2017, 292, 15588-15597.	3.4	64
165	Photochemical properties of Escherichia coli DNA photolyase: a flash photolysis study. Biochemistry, 1986, 25, 8163-8166.	2.5	63
166	Purification and Characterization of Escherichia coli and Human Nucleotide Excision Repair Enzyme Systems. Methods in Enzymology, 2006, 408, 189-213.	1.0	62
167	Comparative Photochemistry of Animal Type 1 and Type 4 Cryptochromes. Biochemistry, 2009, 48, 8585-8593.	2.5	62
168	Effect of Damage Type on Stimulation of Human Excision Nuclease by SWI/SNF Chromatin Remodeling Factor. Molecular and Cellular Biology, 2003, 23, 4121-4125.	2.3	59
169	Electrically monitoring DNA repair by photolyase. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 10788-10792.	7.1	59
170	Electron Tunneling Pathways and Role of Adenine in Repair of Cyclobutane Pyrimidine Dimer by DNA Photolyase. Journal of the American Chemical Society, 2012, 134, 8104-8114.	13.7	59
171	The molecular origin of high DNA-repair efficiency by photolyase. Nature Communications, 2015, 6, 7302.	12.8	59
172	The Circadian Clock Controls Sunburn Apoptosis and Erythema in Mouse Skin. Journal of Investigative Dermatology, 2015, 135, 1119-1127.	0.7	58
173	Circadian clock disruption improves the efficacy of chemotherapy through p73-mediated apoptosis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10668-10672.	7.1	57
174	Identification and amplification of theE. coli phrgene product. Nucleic Acids Research, 1983, 11, 6667-6678.	14.5	55
175	Repair of DNAâ€“Protein Cross-links in Mammalian Cells. Cell Cycle, 2006, 5, 1366-1370.	2.6	55
176	Identification and Characterization of Human MUS81-MMS4 Structure-specific Endonuclease. Journal of Biological Chemistry, 2003, 278, 21715-21720.	3.4	54
177	Xeroderma Pigmentosum Complementation Group E Protein (XPE/DDB2): Purification of Various Complexes of XPE and Analyses of Their Damaged DNA Binding and Putative DNA Repair Properties. Molecular and Cellular Biology, 2005, 25, 9784-9792.	2.3	54
178	Similar Nucleotide Excision Repair Capacity in Melanocytes and Melanoma Cells. Cancer Research, 2010, 70, 4922-4930.	0.9	54
179	Gene Model 129 (Gm129) Encodes a Novel Transcriptional Repressor That Modulates Circadian Gene Expression. Journal of Biological Chemistry, 2014, 289, 5013-5024.	3.4	54
180	Mechanism of Photosignaling by Drosophila Cryptochrome. Journal of Biological Chemistry, 2014, 289, 4634-4642.	3.4	54

#	Article	IF	Citations
181	Utilization of DNA photolyase, pyrimidine dimer endonucleases, and alkali hydrolysis in the analysis of aberrant ABC excinuclease incisions adjacent to UV-induced DNA photoproducts. Nucleic Acids Research, 1987, 15, 1227-1243.	14.5	53
182	Long Patch Base Excision Repair Proceeds via Coordinated Stimulation of the Multienzyme DNA Repair Complex. Journal of Biological Chemistry, 2009, 284, 15158-15172.	3.4	51
183	Coupling of Human DNA Excision Repair and the DNA Damage Checkpoint in a Defined in Vitro System. Journal of Biological Chemistry, 2014, 289, 5074-5082.	3.4	51
184	Structure and function of DNA photolyases. Trends in Biochemical Sciences, 1987, 12, 259-261.	7.5	49
185	Thermodynamic Cooperativity and Kinetic Proofreading in DNA Damage Recognition and Repair. Cell Cycle, 2004, 3, 139-142.	2.6	48
186	Mechanism of Stimulation of Human DNA Ligase I by the Rad9-Rad1-Hus1 Checkpoint Complex. Journal of Biological Chemistry, 2006, 281, 20865-20872.	3.4	48
187	Reconstitution of Human Claspin-mediated Phosphorylation of Chk1 by the ATR (Ataxia) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 284, 33107-33114.	3.4	48
188	Genome-wide mapping of nucleotide excision repair with XR-seq. Nature Protocols, 2019, 14, 248-282.	12.0	48
189	The other function of DNA photolyase: stimulation of excision repair of chemical damage to DNA. Biochemistry, 1995, 34, 15886-15889.	2.5	47
190	Purification and Partial Characterization of (6â€4) Photoproduct DNA Photolyase from Xenopus laevis. Photochemistry and Photobiology, 1996, 63, 292-295.	2.5	47
191	Effect of circadian clock mutations on DNA damage response in mammalian cells. Cell Cycle, 2012, 11, 3481-3491.	2.6	47
192	Bifurcating electron-transfer pathways in DNA photolyases determine the repair quantum yield. Science, 2016, 354, 209-213.	12.6	47
193	RNA polymerase II is released from the DNA template during transcription-coupled repair in mammalian cells. Journal of Biological Chemistry, 2018, 293, 2476-2486.	3.4	47
194	A general approach for purifying proteins encoded by cloned genes without using a functional assay: isolation of the uvrA gene product from radiolabeled maxicells. Nucleic Acids Research, 1981, 9, 4495-4508.	14.5	46
195	Characterization of a Medium Wavelength Type DNA Photolyase: Purification and Properties of Photolyase from Bacillus firmus. Biochemistry, 1994, 33, 8712-8718.	2.5	46
196	Analysis of Autophosphorylating Kinase Activities of Arabidopsis and Human Cryptochromesâ€. Biochemistry, 2006, 45, 13369-13374.	2.5	46
197	Dynamic determination of the functional state in photolyase and the implication for cryptochrome. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12972-12977.	7.1	46
198	UV Light Potentiates STING (Stimulator of Interferon Genes)-dependent Innate Immune Signaling through Deregulation of ULK1 (Unc51-like Kinase 1). Journal of Biological Chemistry, 2015, 290, 12184-12194.	3.4	46

#	Article	IF	Citations
199	Evidence from photoinduced EPR for a radical intermediate during photolysis of cyclobutane thymine dimer by DNA photolyase. Journal of the American Chemical Society, 1992, 114, 4442-4443.	13.7	45
200	Human Transcription Release Factor 2 Dissociates RNA Polymerases I and II Stalled at a Cyclobutane Thymine Dimer. Journal of Biological Chemistry, 1999, 274, 24779-24786.	3.4	45
201	Nucleotide Excision Repair in the Third Kingdom. Journal of Bacteriology, 1998, 180, 5796-5798.	2.2	45
202	Doublet-quartet intersystem crossing of flavin radical in DNA photolyase. Journal of the American Chemical Society, 1989, 111, 5967-5969.	13.7	44
203	Removal of psoralen monoadducts and crosslinks by human cell free extracts. Nucleic Acids Research, 1991, 19, 4623-4629.	14.5	44
204	Ultrafast Dynamics of Resonance Energy Transfer in Cryptochrome. Journal of the American Chemical Society, 2005, 127, 7984-7985.	13.7	44
205	Purification and Characterization of a Type III Photolyase from Caulobacter crescentus. Biochemistry, 2008, 47, 10255-10261.	2.5	44
206	Femtosecond Dynamics of Flavin Cofactor in DNA Photolyase:Â Radical Reduction, Local Solvation, and Charge Recombination. Journal of Physical Chemistry B, 2005, 109, 1329-1333.	2.6	43
207	Genome-wide excision repair in Arabidopsis is coupled to transcription and reflects circadian gene expression patterns. Nature Communications, 2018, 9, 1503.	12.8	43
208	Analysis of mRNA synthesis following induction of the Escherichia coli SOS system. Journal of Molecular Biology, 1984, 178, 237-248.	4.2	41
209	Cooperative activation of the ATR checkpoint kinase by TopBP1 and damaged DNA. Nucleic Acids Research, 2009, 37, 1501-1509.	14.5	41
210	Highly specific and sensitive method for measuring nucleotide excision repair kinetics of ultraviolet photoproducts in human cells. Nucleic Acids Research, 2014, 42, e29-e29.	14.5	41
211	The Second Chromophore in Drosophila Photolyase/Cryptochrome Family Photoreceptors. Biochemistry, 2012, 51, 167-171.	2.5	40
212	Circadian Photoreception in Humans and Mice. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2002, 2, 484-492.	3.4	40
213	Human andE.coliexcinucleases are affected differently by the sequence context of acetylaminofluoreneâ€“guanine adduct. Nucleic Acids Research, 1994, 22, 4869-4871.	14.5	39
214	RHINO forms a stoichiometric complex with the 9-1-1 checkpoint clamp and mediates ATR-Chk1 signaling. Cell Cycle, 2015, 14, 99-108.	2.6	39
215	Mfd translocase is necessary and sufficient for transcription-coupled repair in Escherichia coli. Journal of Biological Chemistry, 2017, 292, 18386-18391.	3.4	39
216	Cryptochromes and Circadian Photoreception in Animals. Methods in Enzymology, 2005, 393, 726-745.	1.0	38

#	Article	IF	Citations
217	Femtochemistry in enzyme catalysis: DNA photolyase. Cell Biochemistry and Biophysics, 2007, 48, 32-44.	1.8	38
218	The repair patch ofE.coli(A)BC excinuclease. Nucleic Acids Research, 1990, 18, 5051-5053.	14.5	37
219	Molecular Cloning of a Novel Human Gene Encoding a 63-kDa Protein and Its Sublocalization within the 11q13 Locus. Genomics, 1997, 41, 397-405.	2.9	37
220	Cloning, sequencing, expression and characterization of DNA photolyase fromSalmonella typhimurium. Nucleic Acids Research, 1991, 19, 4885-4890.	14.5	36
221	DNA excision repair. Cell Cycle, 2012, 11, 2997-3002.	2.6	36
222	Single-nucleotide resolution dynamic repair maps of UV damage in Saccharomyces cerevisiae genome. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E3408-E3415.	7.1	36
223	Properties and regulation of the UVRABC endonuclease. Biochimie, 1982, 64, 595-598.	2.6	35
224	Formation of Arabidopsis Cryptochrome 2 Photobodies in Mammalian Nuclei. Journal of Biological Chemistry, 2013, 288, 23244-23251.	3.4	35
225	Circadian clock, carcinogenesis, chronochemotherapy connections. Journal of Biological Chemistry, 2021, 297, 101068.	3.4	35
226	Excision repair invades the territory of mismatch repair. Nature Genetics, 1999, 21, 247-249.	21.4	34
227	Tethering DNA Damage Checkpoint Mediator Proteins Topoisomerase IIÎ²-binding Protein 1 (TopBP1) and Claspin to DNA Activates Ataxia-Telangiectasia Mutated and RAD3-related (ATR) Phosphorylation of Checkpoint Kinase 1 (Chk1). Journal of Biological Chemistry, 2011, 286, 19229-19236.	3.4	34
228	DNA Damageâ€“Specific Control of Cell Death by Cryptochrome in p53-Mutant Rasâ€“Transformed Cells. Cancer Research, 2013, 73, 785-791.	0.9	34
229	Drosophila, which lacks canonical transcription-coupled repair proteins, performs transcription-coupled repair. Journal of Biological Chemistry, 2019, 294, 18092-18098.	3.4	34
230	Methodologies for detecting environmentally induced DNA damage and repair. Environmental and Molecular Mutagenesis, 2020, 61, 664-679.	2.2	34
231	The circadian clock shapes the Arabidopsis transcriptome by regulating alternative splicing and alternative polyadenylation. Journal of Biological Chemistry, 2020, 295, 7608-7619.	3.4	34
232	DNA Repair Synthesis and Ligation Affect the Processing of Excised Oligonucleotides Generated by Human Nucleotide Excision Repair. Journal of Biological Chemistry, 2014, 289, 26574-26583.	3.4	33
233	Nucleotide excision repair by dual incisions in plants. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4706-4710.	7.1	33
234	High-performance liquid chromatographic separation of platinum complexes containing the cis-1,2-diaminocyclohexane carrier ligand. Analytical Biochemistry, 1986, 157, 129-143.	2.4	32

#	Article	IF	Citations
235	An Integrated Approach for Analysis of the DNA Damage Response in Mammalian Cells. Journal of Biological Chemistry, 2015, 290, 28812-28821.	3.4	31
236	Circadian regulation of c-MYC in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21609-21617.	7.1	31
237	PLEIOTROPIC EFFECTS OF CRYPTOCHROMES 1 AND 2 ON FREE-RUNNING AND LIGHT-ENTRAINED MURINE CIRCADIAN RHYTHMS. Journal of Neurogenetics, 2002, 16, 181-203.	1.4	30
238	A Third Member of the Photolyase/Blueâ€light Photoreceptor Family in Drosophila: A Putative Circadian Photoreceptor. Photochemistry and Photobiology, 1999, 69, 105-107.	2.5	29
239	Comparative properties and functions of type 2 and type 4 pigeon cryptochromes. Cellular and Molecular Life Sciences, 2018, 75, 4629-4641.	5.4	29
240	CRY1â€CBS binding regulates circadian clock function and metabolism. FEBS Journal, 2021, 288, 614-639.	4.7	29
241	Tryptophan radical formation in DNA photolyase: electron-spin polarization arising from photoexcitation of a doublet ground state. Journal of the American Chemical Society, 1993, 115, 1602-1603.	13.7	28
242	Laser Flash Photolysis on an Intermediate in the Repair of Pyrimidine Dimers by DNA Photolyase. Journal of the American Chemical Society, 1994, 116, 3115-3116.	13.7	28
243	A mathematical model for human nucleotide excision repair: Damage recognition by random order assembly and kinetic proofreading. Journal of Theoretical Biology, 2007, 249, 361-375.	1.7	28
244	ATR Kinase Inhibition Protects Non-cycling Cells from the Lethal Effects of DNA Damage and Transcription Stress. Journal of Biological Chemistry, 2016, 291, 9330-9342.	3.4	28
245	DNA photolyase repairs the trans-syn cyclobutane thymine dimer. Biochemistry, 1993, 32, 7065-7068.	2.5	27
246	The Influence of Repair Pathways on the Cytotoxicity and Mutagenicity Induced by the Pyridyloxobutylation Pathway of Tobacco-Specific Nitrosamines. Chemical Research in Toxicology, 2009, 22, 1464-1472.	3.3	27
247	An Alternative Form of Replication Protein A Expressed in Normal Human Tissues Supports DNA Repair. Journal of Biological Chemistry, 2010, 285, 4788-4797.	3.4	27
248	The DNA Damage Response Kinases DNA-dependent Protein Kinase (DNA-PK) and Ataxia Telangiectasia Mutated (ATM) Are Stimulated by Bulky Adduct-containing DNA. Journal of Biological Chemistry, 2011, 286, 19237-19246.	3.4	27
249	PHOTOREPAIR OF NONADJACENT PYRIMIDINE DIMERS BY DNA PHOTOLYASE. Photochemistry and Photobiology, 1995, 61, 171-174.	2.5	26
250	Effect of Vitamin A Depletion on Nonvisual Phototransduction Pathways in Cryptochromeless Mice. Journal of Biological Rhythms, 2004, 19, 504-517.	2.6	26
251	In Vitro Analysis of the Role of Replication Protein A (RPA) and RPA Phosphorylation in ATR-mediated Checkpoint Signaling. Journal of Biological Chemistry, 2012, 287, 36123-36131.	3.4	25
252	Purification and characterization of Drosophila melanogaster photolyase. Mutation Research DNA Repair, 1996, 363, 97-104.	3.7	24

#	Article	IF	Citations
253	Genome-wide circadian rhythm detection methods: systematic evaluations and practical guidelines. Briefings in Bioinformatics, 2021, 22, .	6.5	24
254	The human Rad9 checkpoint protein stimulates the carbamoyl phosphate synthetase activity of the multifunctional protein CAD. Nucleic Acids Research, 2004, 32, 4524-4530.	14.5	23
255	Further evidence for the role of cryptochromes in retinohypothalamic photoreception/phototransduction. Molecular Brain Research, 2004, 122, 158-166.	2.3	23
256	CRYPTOCHROMES confer robustness, not rhythmicity, to circadian timekeeping. EMBO Journal, 2021, 40, e106745.	7.8	23
257	Genome-wide analysis of 8-oxo-7,8-dihydro-2'-deoxyguanosine at single-nucleotide resolution unveils reduced occurrence of oxidative damage at G-quadruplex sites. Nucleic Acids Research, 2021, 49, 12252-12267.	14.5	23
258	[22] Role of tryptophans in substrate binding and catalysis by DNA photolyase. Methods in Enzymology, 1995, 258, 319-343.	1.0	22
259	The human ATR-mediated DNA damage checkpoint in a reconstituted system. Methods, 2009, 48, 3-7.	3.8	22
260	Thermodynamic cooperativity and kinetic proofreading in DNA damage recognition and repair. Cell Cycle, 2004, 3, 141-4.	2.6	22
261	Direct Determination of Resonance Energy Transfer in Photolyase: Structural Alignment for the Functional State. Journal of Physical Chemistry A, 2014, 118, 10522-10530.	2.5	21
262	Long-term, genome-wide kinetic analysis of the effect of the circadian clock and transcription on the repair of cisplatin-DNA adducts in the mouse liver. Journal of Biological Chemistry, 2019, 294, 11960-11968.	3.4	20
263	PHOTOREACTIVATION OF KILLING INE. coliKâ€“12 phr-CELLS IS NOT CAUSED BY PYRIMIDINE DIMER REVERSAL. Photochemistry and Photobiology, 1988, 48, 233-234.	2.5	18
264	Reconstitution of mammalian excision repair activity with mutant cell-free extracts and XPAC and ERCC1 proteins expressed inEscherichia coli. Nucleic Acids Research, 1993, 21, 5110-5116.	14.5	18
265	Single-nucleotide resolution analysis of nucleotide excision repair of ribosomal DNA in humans and mice. Journal of Biological Chemistry, 2019, 294, 210-217.	3.4	18
266	Genome-wide single-nucleotide resolution of oxaliplatinâ€“DNA adduct repair in drug-sensitive and -resistant colorectal cancer cell lines. Journal of Biological Chemistry, 2020, 295, 7584-7594.	3.4	17
267	Purification and Characterization of DNA Photolyases. Methods in Enzymology, 2006, 408, 121-156.	1.0	16
268	Direct Role for the Replication Protein Treslin (Ticrr) in the ATR Kinase-mediated Checkpoint Response. Journal of Biological Chemistry, 2013, 288, 18903-18910.	3.4	16
269	Analysis of Ribonucleotide Removal from DNA by Human Nucleotide Excision Repair. Journal of Biological Chemistry, 2015, 290, 29801-29807.	3.4	16
270	Nucleotide excision repair capacity increases during differentiation of human embryonic carcinoma cells into neurons and muscle cells. Journal of Biological Chemistry, 2019, 294, 5914-5922.	3.4	16

#	Article	IF	Citations
271	The LexA protein does not bind specifically to the two SOS box-like sequences immediately 5â€² to the phr gene. Mutation Research DNA Repair, 1989, 218, 207-210.	3.7	15
272	The intelligent clock and the Rube Goldberg clock. Nature Structural and Molecular Biology, 2008, 15, 23-24.	8.2	14
273	Crystallization and Preliminary Crystallographic Analysis of Escherichia coli DNA Photolyase. Journal of Molecular Biology, 1993, 231, 1122-1125.	4.2	13
274	Super hotspots and super coldspots in the repair of UV-induced DNA damage in the human genome. Journal of Biological Chemistry, 2021, 296, 100581.	3.4	13
275	DNA Distress: Just Ring 9-1-1. Current Biology, 2009, 19, R733-R734.	3.9	12
276	Nucleotide Excision Repair, Oxidative Damage, DNA Sequence Polymorphisms, and Cancer Treatment: Fig. 1. Clinical Cancer Research, 2005, 11, 1355-1357.	7.0	11
277	The Transcription-Repair Coupling Factor Mfd Prevents and Promotes Mutagenesis in a Context-Dependent Manner. Frontiers in Molecular Biosciences, 2021, 8, 668290.	3.5	11
278	Multiple ATR-Chk1 Pathway Proteins Preferentially Associate with Checkpoint-Inducing DNA Substrates. PLoS ONE, 2011, 6, e22986.	2.5	11
279	Limitations of the in vitro repair synthesis assay for probing the role of DNA repair in platinum resistance. Chemico-Biological Interactions, 1992, 81, 223-231.	4.0	10
280	Mechanismen der DNAâ€Reparatur durch Photolyasen und Exzisionsnukleasen (Nobelâ€Aufsatz). Angewandte Chemie, 2016, 128, 8643-8670.	2.0	10
281	It Is Chemistry but Not Your Grandfatherâ€™s Chemistry. Biochemistry, 2017, 56, 1-2.	2.5	10
282	Restoration of Nucleotide Excision Repair in a Helicase-Deficient XPD Mutant from Intragenic Suppression by a Trichothiodystrophy Mutation. Molecular and Cellular Biology, 2001, 21, 7355-7365.	2.3	9
283	Mycobacteria excise DNA damage in 12- or 13-nucleotide-long oligomers by prokaryotic-type dual incisions and performs transcription-coupled repair. Journal of Biological Chemistry, 2020, 295, 17374-17380.	3.4	9
284	Flow Linear Dichroism and Electron Microscopic Analysis of Protein-DNA Complexes of a Mutant UvrB Protein that Binds to but cannot Kink DNA. Journal of Molecular Biology, 1994, 241, 645-650.	4.2	8
285	Characterization of Transcription-Repair Coupling Factors in E. Coli and Humans. Methods in Enzymology, 2003, 371, 300-324.	1.0	8
286	Resonance Raman Spectroscopic Investigation of the Light-Harvesting Chromophore inEscherichia coliPhotolyase andVibrio choleraeCryptochrome-1â€. Biochemistry, 2007, 46, 3673-3681.	2.5	8
287	The 2015 Nobel Prize in Chemistry The Discovery of Essential Mechanisms that Repair DNA Damage. Journal of the Association of Genetic Technologists, 2016, 42, 37-41.	0.1	8
288	DNA Excision Repair Assays. Progress in Molecular Biology and Translational Science, 1997, 56, 63-81.	1.9	7

#	Article	IF	Citations
289	DCAF7 is required for maintaining the cellular levels of ERCC1-XPF and nucleotide excision repair. Biochemical and Biophysical Research Communications, 2019, 519, 204-210.	2.1	7
290	Excited quartet states in DNA photolyase. Journal of Photochemistry and Photobiology B: Biology, 1992, 16, 387-390.	3.8	6
291	Cryptochromes and Inner Retinal Non-Visual Irradiance Detection. Novartis Foundation Symposium, 2008, , 31-51.	1.1	6
292	A Sextuple Knockout Cell Line System to Study the Differential Roles of CRY, PER, and NR1D in the Transcription-Translation Feedback Loop of the Circadian Clock. Frontiers in Neuroscience, 2020, 14, 616802.	2.8	6
293	A Third Member of the Photolyase/Blue-light Photoreceptor Family in Drosophila: A Putative Circadian Photoreceptor. Photochemistry and Photobiology, 1999, 69, 105.	2.5	6
294	Melanoma and DNA damage from a distance (farstander effect). Pigment Cell and Melanoma Research, 2011, 24, 3-4.	3.3	5
295	Comparative analyses of two primate species diverged by more than 60 million years show different rates but similar distribution of genome-wide UV repair events. BMC Genomics, 2021, 22, 600.	2.8	5
296	CSB-independent, XPC-dependent transcription-coupled repair in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	5
297	Mechanistic Study of TTF-1 Modulation of Cellular Sensitivity to Cisplatin. Scientific Reports, 2019, 9, 7990.	3.3	3
298	Genomeâ€wide Excision Repair Map of Cyclobutane Pyrimidine Dimers in Arabidopsis and the Roles of CSA1 and CSA2 Proteins in Transcriptionâ€coupled Repair^{â€}. Photochemistry and Photobiology, 2022, 98, 707-712.	2.5	3
299	Structure and Function of DNA Photolyase and Cryptochrome Blue-Light Photoreceptors. ChemInform, 2003, 34, no.	0.0	2
300	Animal Cryptochromes. , 2005, , 259-276.		2
301	A new technique for genome-wide mapping of nucleotide excision repair without immunopurification of damaged DNA. Journal of Biological Chemistry, 2022, 298, 101863.	3.4	2
302	Human andE.Coliexcinucleases are affected differently by the sequence context of acetylaminofluorene-guanine adduct. Nucleic Acids Research, 1995, 23, 540-540.	14.5	1
303	Generation and characterization of an immortal cell line of xeroderma pigmentosum group E. Mutation Research DNA Repair, 1998, 407, 55-65.	3.7	1
304	Oliver Smithies (1925â€“2017). Science, 2017, 355, 695-695.	12.6	1
305	Claud S. Rupert (1919â€“2017): The Father of <scp>DNA</scp> Repair. Photochemistry and Photobiology, 2017, 93, 1133-1134.	2.5	1
306	Coupling of Human DNA Excision Repair and the ATRâ€mediated DNA Damage Checkpoint. FASEB Journal, 2015, 29, 490.1.	0.5	1

#	Article	IF	Citations
307	Biography. Photochemistry and Photobiology, 2017, 93, 7-14.	2.5	0
308	Preface. Photochemistry and Photobiology, 2017, 93, 4-4.	2.5	0
309	My 100th JBC paper. Journal of Biological Chemistry, 2021, 296, 100061.	3.4	0
310	Cryptochrome. , 2003, , .		0
311	DNA Photolyase. , 2004, , 698-702.		0
312	Long Patch Base Excision Repair proceeds via coordinated stimulation of the multienzyme repair complex. FASEB Journal, 2009, 23, 836.13.	0.5	0
313	Interactions of human mismatch repair proteins MutSalpha and MutLalpha with proteins of the ATRâ€Chk1 pathway. FASEB Journal, 2010, 24, 492.10.	0.5	0