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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

309 papers	28,264 citations	90 h-index	156 g-index
319 ext. papers	30,620 ext. citations	9.3 avg, IF	7.37 L-index

#	Paper	IF	Citations
309	Molecular mechanisms of mammalian DNA repair and the DNA damage checkpoints. <i>Annual Review of Biochemistry</i> , 2004 , 73, 39-85	29.1	2443
308	Structure and function of DNA photolyase and cryptochrome blue-light photoreceptors. <i>Chemical Reviews</i> , 2003 , 103, 2203-37	68.1	1002
307	DNA excision repair. <i>Annual Review of Biochemistry</i> , 1996 , 65, 43-81	29.1	965
306	DNA repair enzymes. <i>Annual Review of Biochemistry</i> , 1988 , 57, 29-67	29.1	750
305	Dual role of TFIIH in DNA excision repair and in transcription by RNA polymerase II. <i>Nature</i> , 1994 , 368, 769-72	50.4	635
304	Structure and function of DNA photolyase. <i>Biochemistry</i> , 1994 , 33, 2-9	3.2	574
303	A novel repair enzyme: UVRABC excision nuclease of Escherichia coli cuts a DNA strand on both sides of the damaged region. <i>Cell</i> , 1983 , 33, 249-60	56.2	561
302	Reconstitution of human DNA repair excision nuclease in a highly defined system. <i>Journal of Biological Chemistry</i> , 1995 , 270, 2415-8	5.4	375
301	Role of mouse cryptochrome blue-light photoreceptor in circadian photoresponses. <i>Science</i> , 1998 , 282, 1490-4	33.3	320
300	Repair of cisplatin--DNA adducts by the mammalian excision nuclease. <i>Biochemistry</i> , 1996 , 35, 10004-13	3.2	288
299	Reaction mechanism of human DNA repair excision nuclease. <i>Journal of Biological Chemistry</i> , 1996 , 271, 8285-94	5.4	277
298	Loading of the human 9-1-1 checkpoint complex onto DNA by the checkpoint clamp loader hRad17-replication factor C complex in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 1633-8	11.5	269
297	Identification of the uvrA gene product. <i>Journal of Molecular Biology</i> , 1981 , 148, 45-62	6.5	263
296	Coupling of human circadian and cell cycles by the timeless protein. <i>Molecular and Cellular Biology</i> , 2005 , 25, 3109-16	4.8	254
295	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. <i>Biochemistry</i> , 1995 , 34, 6892-9	3.2	243
294	Putative human blue-light photoreceptors hCRY1 and hCRY2 are flavoproteins. <i>Biochemistry</i> , 1996 , 35, 13871-7	3.2	239
293	A cryptochrome/photolyase class of enzymes with single-stranded DNA-specific photolyase activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 17696-700	11.5	235

292	Direct observation of thymine dimer repair in DNA by photolyase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 16128-32	11.5	221
291	Nucleotide excision repair. <i>Progress in Molecular Biology and Translational Science</i> , 2005 , 79, 183-235		220
290	Cryptochrome: the second photoactive pigment in the eye and its role in circadian photoreception. <i>Annual Review of Biochemistry</i> , 2000 , 69, 31-67	29.1	219
289	DNA repair: enzymatic mechanisms and relevance to drug response. <i>Journal of the National Cancer Institute</i> , 1996 , 88, 1346-60	9.7	218
288	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. <i>Journal of Biological Chemistry</i> , 1997 , 272, 1885-90	5.4	208
287	Nucleotide excision repair. <i>Photochemistry and Photobiology</i> , 1993 , 57, 905-21	3.6	199
286	cis-Diammine(pyridine)chloroplatinum(II), a monofunctional platinum(II) antitumor agent: Uptake, structure, function, and prospects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 8902-7	11.5	198
285	The human Tim/Tipin complex coordinates an Intra-S checkpoint response to UV that slows replication fork displacement. <i>Molecular and Cellular Biology</i> , 2007 , 27, 3131-42	4.8	194
284	Purification of PCNA as a nucleotide excision repair protein. <i>Nucleic Acids Research</i> , 1992 , 20, 2441-6	20.1	194
283	Nucleotide excision repair: from E. coli to man. <i>Biochimie</i> , 1999 , 81, 15-25	4.6	182
282	DNA repair in humans. <i>Annual Review of Genetics</i> , 1995 , 29, 69-105	14.5	180
281	Ultrafast dynamics of flavins in five redox states. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13132-9	16.4	173
280	Circadian clock control of the cellular response to DNA damage. <i>FEBS Letters</i> , 2010 , 584, 2618-25	3.8	172
279	Circadian control of XPA and excision repair of cisplatin-DNA damage by cryptochrome and HERC2 ubiquitin ligase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 4890-5	11.5	169
278	DDB accumulates at DNA damage sites immediately after UV irradiation and directly stimulates nucleotide excision repair. <i>Journal of Biological Chemistry</i> , 2002 , 277, 1637-40	5.4	167
277	A new mechanism for repairing oxidative damage to DNA: (A)BC excinuclease removes AP sites and thymine glycols from DNA. <i>Biochemistry</i> , 1989 , 28, 7979-84	3.2	167
276	Dynamics and mechanism of repair of ultraviolet-induced (6-4) photoproduct by photolyase. <i>Nature</i> , 2010 , 466, 887-890	50.4	165
275	Human DNA repair excision nuclease. Analysis of the roles of the subunits involved in dual incisions by using anti-XPG and anti-ERCC1 antibodies. <i>Journal of Biological Chemistry</i> , 1995 , 270, 20862-9	5.4	162

274	The general transcription-repair factor TFIIH is recruited to the excision repair complex by the XPA protein independent of the TFIIIE transcription factor. <i>Journal of Biological Chemistry</i> , 1995 , 270, 4896-902	5.4	157
273	Control of skin cancer by the circadian rhythm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 18790-5	11.5	155
272	Replication protein A confers structure-specific endonuclease activities to the XPF-ERCC1 and XPG subunits of human DNA repair excision nuclease. <i>Journal of Biological Chemistry</i> , 1996 , 271, 11047-50	5.4	152
271	Role of structural plasticity in signal transduction by the cryptochrome blue-light photoreceptor. <i>Biochemistry</i> , 2005 , 44, 3795-805	3.2	151
270	DNA damage in the nucleosome core is refractory to repair by human excision nuclease. <i>Molecular and Cellular Biology</i> , 2000 , 20, 9173-81	4.8	150
269	Circadian oscillation of nucleotide excision repair in mammalian brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2864-7	11.5	149
268	Genome-wide analysis of human global and transcription-coupled excision repair of UV damage at single-nucleotide resolution. <i>Genes and Development</i> , 2015 , 29, 948-60	12.6	147
267	Order of assembly of human DNA repair excision nuclease. <i>Journal of Biological Chemistry</i> , 1999 , 274, 18759-68	5.4	147
266	Active site of DNA photolyase: tryptophan-306 is the intrinsic hydrogen atom donor essential for flavin radical photoreduction and DNA repair in vitro. <i>Biochemistry</i> , 1991 , 30, 6322-9	3.2	147
265	Where transcription meets repair. <i>Cell</i> , 1994 , 77, 9-12	56.2	146
264	Cryptochrome, circadian cycle, cell cycle checkpoints, and cancer. <i>Cancer Research</i> , 2005 , 65, 6828-34	10.1	143
263	Preferential binding of ATR protein to UV-damaged DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 6673-8	11.5	141
262	Structure and function of photolyase and in vivo enzymology: 50th anniversary. <i>Journal of Biological Chemistry</i> , 2008 , 283, 32153-7	5.4	140
261	Human nucleotide excision repair in vitro: repair of pyrimidine dimers, psoralen and cisplatin adducts by HeLa cell-free extract. <i>Nucleic Acids Research</i> , 1989 , 17, 4471-84	20.1	140
260	Recognition and repair of the cyclobutane thymine dimer, a major cause of skin cancers, by the human excision nuclease. <i>Genes and Development</i> , 2003 , 17, 2539-51	12.6	139
259	The uvrB gene of Escherichia coli has both lexA-repressed and lexA-independent promoters. <i>Cell</i> , 1982 , 28, 523-30	56.2	138
258	Loss of cryptochrome reduces cancer risk in p53 mutant mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2841-6	11.5	137
257	Photochemistry, photophysics, and mechanism of pyrimidine dimer repair by DNA photolyase. <i>Photochemistry and Photobiology</i> , 1993 , 57, 895-904	3.6	137

256	Reconstitution of human excision nuclease with recombinant XPF-ERCC1 complex. <i>Journal of Biological Chemistry</i> , 1997 , 272, 3833-7	5.4	136
255	The SWI/SNF chromatin-remodeling factor stimulates repair by human excision nuclease in the mononucleosome core particle. <i>Molecular and Cellular Biology</i> , 2002 , 22, 6779-87	4.8	132
254	Dynamics and mechanism of cyclobutane pyrimidine dimer repair by DNA photolyase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 14831-6	11.5	130
253	Identification of a neutral flavin radical and characterization of a second chromophore in Escherichia coli DNA photolyase. <i>Biochemistry</i> , 1984 , 23, 2673-9	3.2	128
252	Guidelines for Genome-Scale Analysis of Biological Rhythms. <i>Journal of Biological Rhythms</i> , 2017 , 32, 380-393	3.2	127
251	Mechanisms of DNA Repair by Photolyase and Excision Nuclease (Nobel Lecture). <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8502-27	16.4	127
250	Characterization of reaction intermediates of human excision repair nuclease. <i>Journal of Biological Chemistry</i> , 1997 , 272, 28971-9	5.4	124
249	Dual modes of CLOCK:BMAL1 inhibition mediated by Cryptochrome and Period proteins in the mammalian circadian clock. <i>Genes and Development</i> , 2014 , 28, 1989-98	12.6	123
248	Reaction mechanism of (6-4) photolyase. <i>Journal of Biological Chemistry</i> , 1997 , 272, 32580-90	5.4	123
247	Excision repair in mammalian cells. <i>Journal of Biological Chemistry</i> , 1995 , 270, 15915-8	5.4	123
246	Overproduction, purification, and characterization of the XPC subunit of the human DNA repair excision nuclease. <i>Journal of Biological Chemistry</i> , 1996 , 271, 19451-6	5.4	122
245	Structure and function of transcription-repair coupling factor. I. Structural domains and binding properties. <i>Journal of Biological Chemistry</i> , 1995 , 270, 4882-9	5.4	120
244	Inhibition of nucleotide excision repair by the cyclin-dependent kinase inhibitor p21. <i>Journal of Biological Chemistry</i> , 1995 , 270, 22008-16	5.4	120
243	The non-catalytic function of XPG protein during dual incision in human nucleotide excision repair. <i>Journal of Biological Chemistry</i> , 1997 , 272, 16030-4	5.4	117
242	Determination of rates and yields of interchromophore (folate----flavin) energy transfer and intermolecular (flavin----DNA) electron transfer in Escherichia coli photolyase by time-resolved fluorescence and absorption spectroscopy. <i>Biochemistry</i> , 1991 , 30, 11262-70	3.2	117
241	Effect of base, pentose, and phosphodiester backbone structures on binding and repair of pyrimidine dimers by Escherichia coli DNA photolyase. <i>Biochemistry</i> , 1991 , 30, 8623-30	3.2	115
240	Escherichia coli DNA photolyase is a flavoprotein. <i>Journal of Molecular Biology</i> , 1984 , 172, 223-7	6.5	115
239	Ultrafast dynamics and anionic active states of the flavin cofactor in cryptochrome and photolyase. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7695-701	16.4	112

238	Light induction of a vertebrate clock gene involves signaling through blue-light receptors and MAP kinases. <i>Current Biology</i> , 2002 , 12, 844-8	6.3	110
237	DNA interstrand cross-links induce futile repair synthesis in mammalian cell extracts. <i>Molecular and Cellular Biology</i> , 2000 , 20, 2446-54	4.8	110
236	The active form of Escherichia coli DNA photolyase contains a fully reduced flavin and not a flavin radical, both in vivo and in vitro. <i>Biochemistry</i> , 1987 , 26, 7121-7	3.2	107
235	Reaction mechanism of Drosophila cryptochrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 516-21	11.5	102
234	Regulation of the mammalian circadian clock by cryptochrome. <i>Journal of Biological Chemistry</i> , 2004 , 279, 34079-82	5.4	102
233	Sleep deprivation effects on circadian clock gene expression in the cerebral cortex parallel electroencephalographic differences among mouse strains. <i>Journal of Neuroscience</i> , 2008 , 28, 7193-201	6.6	101
232	Genome-wide kinetics of DNA excision repair in relation to chromatin state and mutagenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E2124-33	11.5	100
231	Photochemistry and photobiology of cryptochrome blue-light photopigments: the search for a photocycle. <i>Photochemistry and Photobiology</i> , 2005 , 81, 1291-304	3.6	99
230	Structure and function of transcription-repair coupling factor. II. Catalytic properties. <i>Journal of Biological Chemistry</i> , 1995 , 270, 4890-5	5.4	99
229	(A)BC excinuclease: the Escherichia coli nucleotide excision repair enzyme. <i>Molecular Microbiology</i> , 1992 , 6, 2219-24	4.1	99
228	Animal type 1 cryptochromes. Analysis of the redox state of the flavin cofactor by site-directed mutagenesis. <i>Journal of Biological Chemistry</i> , 2008 , 283, 3256-3263	5.4	98
227	Amplification of single-strand DNA binding protein in Escherichia coli. <i>Nucleic Acids Research</i> , 1980 , 8, 3215-27	20.1	97
226	Clock Regulation of Metabolites Reveals Coupling between Transcription and Metabolism. <i>Cell Metabolism</i> , 2017 , 25, 961-974.e4	24.6	96
225	Purification and characterization of the XPF-ERCC1 complex of human DNA repair excision nuclease. <i>Journal of Biological Chemistry</i> , 1995 , 270, 22657-60	5.4	96
224	Cisplatin DNA damage and repair maps of the human genome at single-nucleotide resolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 11507-11512	11.5	96
223	Circadian clock, cancer, and chemotherapy. <i>Biochemistry</i> , 2015 , 54, 110-23	3.2	95
222	Structures of the human Rad17-replication factor C and checkpoint Rad 9-1-1 complexes visualized by glycerol spray/low voltage microscopy. <i>Journal of Biological Chemistry</i> , 2002 , 277, 15233-6	5.4	93
221	Absolute action spectrum of E-FADH2 and E-FADH2-MTHF forms of Escherichia coli DNA photolyase. <i>Biochemistry</i> , 1990 , 29, 7715-27	3.2	91

220	Reconstitution of RPA-covered single-stranded DNA-activated ATR-Chk1 signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 13660-5	11.5	90
219	Regulation of nucleotide excision repair activity by transcriptional and post-transcriptional control of the XPA protein. <i>Nucleic Acids Research</i> , 2011 , 39, 3176-87	20.1	89
218	Quaternary structure of ATR and effects of ATRIP and replication protein A on its DNA binding and kinase activities. <i>Molecular and Cellular Biology</i> , 2004 , 24, 1292-300	4.8	88
217	Photolyase/cryptochrome blue-light photoreceptors use photon energy to repair DNA and reset the circadian clock. <i>Oncogene</i> , 2002 , 21, 9043-56	9.2	88
216	Biochemical analysis of the canonical model for the mammalian circadian clock. <i>Journal of Biological Chemistry</i> , 2011 , 286, 25891-902	5.4	87
215	Identification of the uvrB gene product. <i>Journal of Molecular Biology</i> , 1981 , 148, 63-76	6.5	86
214	Dynamic maps of UV damage formation and repair for the human genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 6758-6763	11.5	85
213	Binding of E. coli DNA photolyase to a defined substrate containing a single T mean value of T dimer. <i>Nucleic Acids Research</i> , 1987 , 15, 1109-20	20.1	85
212	Purification and characterization of three members of the photolyase/cryptochrome family blue-light photoreceptors from <i>Vibrio cholerae</i> . <i>Journal of Biological Chemistry</i> , 2003 , 278, 39143-54	5.4	84
211	Picosecond laser photolysis studies on the photorepair of pyrimidine dimers by DNA photolyase. 1. Laser photolysis of photolyase-2-deoxyuridine dinucleotide photodimer complex. <i>Journal of the American Chemical Society</i> , 1991 , 113, 3143-3145	16.4	84
210	Determination of plasmid molecular weights from ultraviolet sensitivities. <i>Nature</i> , 1978 , 272, 471-2	50.4	84
209	Nucleotide excision repair from site-specifically platinum-modified nucleosomes. <i>Biochemistry</i> , 2003 , 42, 6747-53	3.2	83
208	Sequences of the E. coli uvrB gene and protein. <i>Nucleic Acids Research</i> , 1986 , 14, 2637-50	20.1	83
207	DNA repair excision nuclease attacks undamaged DNA. A potential source of spontaneous mutations. <i>Journal of Biological Chemistry</i> , 2001 , 276, 25421-6	5.4	82
206	Origin of the transient electron paramagnetic resonance signals in DNA photolyase. <i>Biochemistry</i> , 1999 , 38, 3857-66	3.2	82
205	Cloning of uvrA, lexC and ssb genes of <i>Escherichia coli</i> . <i>Biochemical and Biophysical Research Communications</i> , 1979 , 90, 123-9	3.4	82
204	Tipin-replication protein A interaction mediates Chk1 phosphorylation by ATR in response to genotoxic stress. <i>Journal of Biological Chemistry</i> , 2010 , 285, 16562-71	5.4	80
203	Model for XPC-independent transcription-coupled repair of pyrimidine dimers in humans. <i>Journal of Biological Chemistry</i> , 1997 , 272, 7570-3	5.4	80

202	The human Rad9-Rad1-Hus1 checkpoint complex stimulates flap endonuclease 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 16762-7	11.5	80
201	Energy transfer (deazaflavin-->FADH2) and electron transfer (FADH2-->T T) kinetics in <i>Anacystis nidulans</i> photolyase. <i>Biochemistry</i> , 1992 , 31, 11244-8	3.2	80
200	Mammalian Period represses and de-represses transcription by displacing CLOCK-BMAL1 from promoters in a Cryptochrome-dependent manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E6072-E6079	11.5	80
199	Femtosecond Dynamics of DNA Photolyase: Energy Transfer of Antenna Initiation and Electron Transfer of Cofactor Reduction. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 18026-18033	3.4	75
198	Regulation of apoptosis by the circadian clock through NF-kappaB signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 12036-41	11.5	74
197	Human blue-light photoreceptor hCRY2 specifically interacts with protein serine/threonine phosphatase 5 and modulates its activity. <i>Photochemistry and Photobiology</i> , 1997 , 66, 727-31	3.6	74
196	Formation and function of flavin anion radical in cryptochrome 1 blue-light photoreceptor of monarch butterfly. <i>Journal of Biological Chemistry</i> , 2007 , 282, 17608-12	5.4	74
195	Substrate and Temperature Dependence of DNA Photolyase Repair Activity Examined with Ultrafast Spectroscopy. <i>Journal of the American Chemical Society</i> , 1997 , 119, 10532-10536	16.4	73
194	Electron microscopic study of (A)BC excinuclease. DNA is sharply bent in the UvrB-DNA complex. <i>Journal of Molecular Biology</i> , 1992 , 226, 425-32	6.5	73
193	Determining complete electron flow in the cofactor photoreduction of oxidized photolyase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12966-71	11.5	72
192	Repair of DNA-polypeptide crosslinks by human excision nuclease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 4056-61	11.5	72
191	Circadian regulation of cryptochrome genes in the mouse. <i>Molecular Brain Research</i> , 1999 , 71, 238-43		72
190	Photochemical properties of <i>Escherichia coli</i> DNA photolyase: selective photodecomposition of the second chromophore. <i>Biochemistry</i> , 1987 , 26, 4634-40	3.2	72
189	Molecular anatomy of the human excision nuclease assembled at sites of DNA damage. <i>Molecular and Cellular Biology</i> , 2002 , 22, 5938-45	4.8	71
188	Analysis of the role of intraprotein electron transfer in photoreactivation by DNA photolyase in vivo. <i>Biochemistry</i> , 2004 , 43, 15103-10	3.2	70
187	EPR, ENDOR, and TRIPLE resonance spectroscopy on the neutral flavin radical in <i>Escherichia coli</i> DNA photolyase. <i>Biochemistry</i> , 1999 , 38, 16740-8	3.2	70
186	Repair of psoralen and acetylaminofluorene DNA adducts by ABC excinuclease. <i>Journal of Molecular Biology</i> , 1985 , 184, 725-34	6.5	70
185	Posttranslational regulation of the mammalian circadian clock by cryptochrome and protein phosphatase 5. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 10467-10472	11.5	69

184	Differential damage and repair of DNA-adducts induced by anti-cancer drug cisplatin across mouse organs. <i>Nature Communications</i> , 2019 , 10, 309	17.4	68
183	Circadian regulation of DNA excision repair: implications for chrono-chemotherapy. <i>Cell Cycle</i> , 2009 , 8, 1665-7	4.7	68
182	Nucleotide excision repair in E. coli and man. <i>Advances in Protein Chemistry</i> , 2004 , 69, 43-71		68
181	Structure and function of the UvrB protein. <i>Journal of Biological Chemistry</i> , 1995 , 270, 8319-27	5.4	68
180	The photo repair of pyrimidine dimers by DNA photolyase and model systems. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1993 , 17, 219-28	6.7	68
179	Sequences of the E. coli uvrC gene and protein. <i>Nucleic Acids Research</i> , 1984 , 12, 4593-608	20.1	68
178	Binding of Escherichia coli DNA photolyase to UV-irradiated DNA. <i>Biochemistry</i> , 1985 , 24, 1849-55	3.2	68
177	Human DNA damage checkpoint protein hRAD9 is a 3' to 5' exonuclease. <i>Journal of Biological Chemistry</i> , 2000 , 275, 7451-4	5.4	67
176	Excited-state properties of Escherichia coli DNA photolyase in the picosecond to millisecond time scale. <i>Biochemistry</i> , 1990 , 29, 5694-8	3.2	67
175	Identification of the different intermediates in the interaction of (A)BC excinuclease with its substrates by DNase I footprinting on two uniquely modified oligonucleotides. <i>Journal of Molecular Biology</i> , 1991 , 219, 27-36	6.5	67
174	RecA-dependent incision of psoralen-crosslinked DNA by (A)BC excinuclease. <i>Nucleic Acids Research</i> , 1991 , 19, 657-63	20.1	66
173	Active site of Escherichia coli DNA photolyase: mutations at Trp277 alter the selectivity of the enzyme without affecting the quantum yield of photorepair. <i>Biochemistry</i> , 1990 , 29, 5698-706	3.2	66
172	Reconstitution of Escherichia coli photolyase with flavins and flavin analogues. <i>Biochemistry</i> , 1990 , 29, 5706-11	3.2	66
171	Identification of oligothymidylates as new simple substrates for Escherichia coli DNA photolyase and their use in a rapid spectrophotometric enzyme assay. <i>Biochemistry</i> , 1985 , 24, 1856-61	3.2	66
170	Blue-light-receptive cryptochrome is expressed in a sponge eye lacking neurons and opsin. <i>Journal of Experimental Biology</i> , 2012 , 215, 1278-86	3	65
169	Ultrafast solvation dynamics at binding and active sites of photolyases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 2914-9	11.5	63
168	Mechanism of release and fate of excised oligonucleotides during nucleotide excision repair. <i>Journal of Biological Chemistry</i> , 2012 , 287, 22889-99	5.4	63
167	LexA protein inhibits transcription of the E. coli uvrA gene in vitro. <i>Nature</i> , 1982 , 298, 96-8	50.4	63

166	Recruitment of DNA damage checkpoint proteins to damage in transcribed and nontranscribed sequences. <i>Molecular and Cellular Biology</i> , 2006 , 26, 39-49	4.8	62
165	Nucleotide excision repair in human cells: fate of the excised oligonucleotide carrying DNA damage in vivo. <i>Journal of Biological Chemistry</i> , 2013 , 288, 20918-20926	5.4	61
164	Cloning of the phr gene and amplification of photolyase in Escherichia coli. <i>Gene</i> , 1978 , 4, 295-308	3.8	61
163	RNA polymerase: the most specific damage recognition protein in cellular responses to DNA damage?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13213-4	11.5	60
162	Human claspin is a ring-shaped DNA-binding protein with high affinity to branched DNA structures. <i>Journal of Biological Chemistry</i> , 2004 , 279, 39289-95	5.4	60
161	Interactions of human mismatch repair proteins MutSalpha and MutLalpha with proteins of the ATR-Chk1 pathway. <i>Journal of Biological Chemistry</i> , 2010 , 285, 5974-82	5.4	59
160	Reconstitution of a human ATR-mediated checkpoint response to damaged DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13301-6	11.5	59
159	Structure and function of the (A)BC excinuclease of Escherichia coli. <i>Mutation Research DNA Repair</i> , 1990 , 236, 203-11		58
158	Purification and characterization of Escherichia coli and human nucleotide excision repair enzyme systems. <i>Methods in Enzymology</i> , 2006 , 408, 189-213	1.7	57
157	Photolyase and cryptochrome blue-light photoreceptors. <i>Advances in Protein Chemistry</i> , 2004 , 69, 73-100		57
156	Photochemical properties of Escherichia coli DNA photolyase: a flash photolysis study. <i>Biochemistry</i> , 1986 , 25, 8163-6	3.2	57
155	Electron tunneling pathways and role of adenine in repair of cyclobutane pyrimidine dimer by DNA photolyase. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8104-14	16.4	56
154	Cdc7-Dbf4 and the human S checkpoint response to UVC. <i>Journal of Biological Chemistry</i> , 2007 , 282, 9458-9468	8.4	56
153	Xeroderma pigmentosum group C splice mutation associated with autism and hypoglycinemia. <i>Journal of Investigative Dermatology</i> , 1998 , 111, 791-6	4.3	54
152	Effect of damage type on stimulation of human excision nuclease by SWI/SNF chromatin remodeling factor. <i>Molecular and Cellular Biology</i> , 2003 , 23, 4121-5	4.8	54
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