

# Aziz Sancar

## List of Publications by Year in Descending Order

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

| #   | Paper  | IF   | Citations |
|-----|--|------|-----------|
| 309 | A new technique for genome-wide mapping of nucleotide excision repair without immunopurification of damaged DNA.. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 101863  | 5.4  |           |
| 308 | Clocks, cancer, and chronochemotherapy. <i>Science</i> , <b>2021</b> , 371,  | 33.3 | 41        |
| 307 | Genome-wide analysis of 8-oxo-7,8-dihydro-2Rdeoxyguanosine at single-nucleotide resolution unveils reduced occurrence of oxidative damage at G-quadruplex sites. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 12252-12267 | 20.1 | 3         |
| 306 | Molecular mechanism of the repressive phase of the mammalian circadian clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,                                      | 11.5 | 17        |
| 305 | The Transcription-Repair Coupling Factor Mfd Prevents and Promotes Mutagenesis in a Context-Dependent Manner. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 668290  | 5.6  | 2         |
| 304 | CRY1-CBS binding regulates circadian clock function and metabolism. <i>FEBS Journal</i> , <b>2021</b> , 288, 614-639   | 5.7  | 16        |
| 303 | Genome-wide circadian rhythm detection methods: systematic evaluations and practical guidelines. <i>Briefings in Bioinformatics</i> , <b>2021</b> , 22,  | 13.4 | 5         |
| 302 | Super hotspots and super coldspots in the repair of UV-induced DNA damage in the human genome. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100581  | 5.4  | 4         |
| 301 | My 100th JBC paper. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100061   | 5.4  |           |
| 300 | 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. <i>BMC Genomics</i> , <b>2021</b> , 22, 600                  | 4.5  | 1         |
| 299 | Circadian clock, carcinogenesis, chronochemotherapy connections. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 101068  | 5.4  | 3         |
| 298 | CRYPTOCHROMES confer robustness, not rhythmicity, to circadian timekeeping. <i>EMBO Journal</i> , <b>2021</b> , 40, e106745  | 13   | 12        |
| 297 | Methodologies for detecting environmentally induced DNA damage and repair. <i>Environmental and Molecular Mutagenesis</i> , <b>2020</b> , 61, 664-679  | 3.2  | 17        |
| 296 | Genome-wide single-nucleotide resolution of oxaliplatin-DNA adduct repair in drug-sensitive and -resistant colorectal cancer cell lines. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 7584-7594                 | 5.4  | 8         |
| 295 | Mycobacteria excise DNA damage in 12- or 13-nucleotide-long oligomers by prokaryotic-type dual incisions and performs transcription-coupled repair. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 17374-17380    | 5.4  | 3         |
| 294 | Circadian regulation of c-MYC in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 21609-21617   | 11.5 | 5         |
| 293 | 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. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 616802  | 5.1  | 1         |

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| 292 | The circadian clock shapes the s transcriptome by regulating alternative splicing and alternative polyadenylation. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 7608-7619   | 5.4  | 12 |
| 291 | DCAF7 is required for maintaining the cellular levels of ERCC1-XPF and nucleotide excision repair. <i>Biochemical and Biophysical Research Communications</i> , <b>2019</b> , 519, 204-210   | 3.4  | 3  |
| 290 | Differential damage and repair of DNA-adducts induced by anti-cancer drug cisplatin across mouse organs. <i>Nature Communications</i> , <b>2019</b> , 10, 309  | 17.4 | 68 |
| 289 | 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. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 11960-11968  | 5.4  | 10 |
| 288 | Mechanistic Study of TTF-1 Modulation of Cellular Sensitivity to Cisplatin. <i>Scientific Reports</i> , <b>2019</b> , 9, 7990  | 4.9  | 2  |
| 287 | Nucleotide excision repair capacity increases during differentiation of human embryonic carcinoma cells into neurons and muscle cells. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 5914-5922                       | 5.4  | 8  |
| 286 | , which lacks canonical transcription-coupled repair proteins, performs transcription-coupled repair. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 18092-18098  | 5.4  | 17 |
| 285 | Single-nucleotide resolution analysis of nucleotide excision repair of ribosomal DNA in humans and mice. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 210-217   | 5.4  | 11 |
| 284 | Genome-wide mapping of nucleotide excision repair with XR-seq. <i>Nature Protocols</i> , <b>2019</b> , 14, 248-282   | 18.8 | 22 |
| 283 | Genome-wide excision repair in Arabidopsis is coupled to transcription and reflects circadian gene expression patterns. <i>Nature Communications</i> , <b>2018</b> , 9, 1503   | 17.4 | 23 |
| 282 | RNA polymerase II is released from the DNA template during transcription-coupled repair in mammalian cells. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 2476-2486  | 5.4  | 29 |
| 281 | Single-nucleotide resolution dynamic repair maps of UV damage in genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E3408-E3415                                   | 11.5 | 22 |
| 280 | Cisplatin-DNA adduct repair of transcribed genes is controlled by two circadian programs in mouse tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E4777-E4785 | 11.5 | 48 |
| 279 | Comparative properties and functions of type 2 and type 4 pigeon cryptochromes. <i>Cellular and Molecular Life Sciences</i> , <b>2018</b> , 75, 4629-4641  | 10.3 | 16 |
| 278 | It Is Chemistry but Not Your Grandfather's Chemistry. <i>Biochemistry</i> , <b>2017</b> , 56, 1-2  | 3.2  | 7  |
| 277 | Oliver Smithies (1925-2017). <i>Science</i> , <b>2017</b> , 355, 695   | 33.3 | 1  |
| 276 | Biography. <i>Photochemistry and Photobiology</i> , <b>2017</b> , 93, 7-14   | 3.6  |    |
| 275 | Genome-wide transcription-coupled repair in is mediated by the Mfd translocase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E2116-E2125                            | 11.5 | 53 |

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|-----|--|------|-----|
| 274 | Claud S. Rupert (1919-2017): The Father of DNA Repair. <i>Photochemistry and Photobiology</i> , <b>2017</b> , 93, 1133-1134  | 3.6  | 1   |
| 273 | Human genome-wide repair map of DNA damage caused by the cigarette smoke carcinogen benzo[a]pyrene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 6752-6757                                      | 11.5 | 51  |
| 272 | 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> , <b>2017</b> , 114, 6758-6763   | 11.5 | 85  |
| 271 | Clock Regulation of Metabolites Reveals Coupling between Transcription and Metabolism. <i>Cell Metabolism</i> , <b>2017</b> , 25, 961-974.e4   | 24.6 | 96  |
| 270 | Preface. <i>Photochemistry and Photobiology</i> , <b>2017</b> , 93, 4  | 3.6  |     |
| 269 | Mfd translocase is necessary and sufficient for transcription-coupled repair in. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 18386-18391   | 5.4  | 30  |
| 268 | Molecular mechanisms and genomic maps of DNA excision repair in and humans. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 15588-15597  | 5.4  | 45  |
| 267 | Guidelines for Genome-Scale Analysis of Biological Rhythms. <i>Journal of Biological Rhythms</i> , <b>2017</b> , 32, 380-393   | 3.2  | 127 |
| 266 | Bifurcating electron-transfer pathways in DNA photolyases determine the repair quantum yield. <i>Science</i> , <b>2016</b> , 354, 209-213  | 33.3 | 34  |
| 265 | SREBP1c-CRY1 signalling represses hepatic glucose production by promoting FOXO1 degradation during refeeding. <i>Nature Communications</i> , <b>2016</b> , 7, 12180  | 17.4 | 42  |
| 264 | 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> , <b>2016</b> , 113, E2124-33   | 11.5 | 100 |
| 263 | ATR Kinase Inhibition Protects Non-cycling Cells from the Lethal Effects of DNA Damage and Transcription Stress. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 9330-42   | 5.4  | 25  |
| 262 | Mechanismen der DNA-Reparatur durch Photolyasen und Exzisionsnukleasen (Nobel-Aufsatz). <i>Angewandte Chemie</i> , <b>2016</b> , 128, 8643-8670  | 3.6  | 7   |
| 261 | Mechanisms of DNA Repair by Photolyase and Excision Nuclease (Nobel Lecture). <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 8502-27   | 16.4 | 127 |
| 260 | Nucleotide excision repair by dual incisions in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 4706-10  | 11.5 | 24  |
| 259 | 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> , <b>2016</b> , 113, E6072-E6079 | 11.5 | 80  |
| 258 | 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> , <b>2016</b> , 113, 11507-11512  | 11.5 | 96  |
| 257 | The 2015 Nobel Prize in Chemistry The Discovery of Essential Mechanisms that Repair DNA Damage. <i>Journal of the Association of Genetic Technologists</i> , <b>2016</b> , 42, 37-41   | 0.1  | 7   |

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| 256 | RHINO forms a stoichiometric complex with the 9-1-1 checkpoint clamp and mediates ATR-Chk1 signaling. <i>Cell Cycle</i> , <b>2015</b> , 14, 99-108  | 4.7  | 30  |
| 255 | Genome-wide analysis of human global and transcription-coupled excision repair of UV damage at single-nucleotide resolution. <i>Genes and Development</i> , <b>2015</b> , 29, 948-60  | 12.6 | 147 |
| 254 | An Integrated Approach for Analysis of the DNA Damage Response in Mammalian Cells: NUCLEOTIDE EXCISION REPAIR, DNA DAMAGE CHECKPOINT, AND APOPTOSIS. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 28812-21                   | 5.4  | 25  |
| 253 | Circadian clock, cancer, and chemotherapy. <i>Biochemistry</i> , <b>2015</b> , 54, 110-23   | 3.2  | 95  |
| 252 | UV Light Potentiates STING (Stimulator of Interferon Genes)-dependent Innate Immune Signaling through Dereglulation of ULK1 (Unc51-like Kinase 1). <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 12184-94                     | 5.4  | 40  |
| 251 | The molecular origin of high DNA-repair efficiency by photolyase. <i>Nature Communications</i> , <b>2015</b> , 6, 73021   | 7.4  | 42  |
| 250 | Analysis of Ribonucleotide Removal from DNA by Human Nucleotide Excision Repair. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 29801-7  | 5.4  | 14  |
| 249 | The circadian clock controls sunburn apoptosis and erythema in mouse skin. <i>Journal of Investigative Dermatology</i> , <b>2015</b> , 135, 1119-1127   | 4.3  | 44  |
| 248 | Coupling of Human DNA Excision Repair and the ATR-mediated DNA Damage Checkpoint. <i>FASEB Journal</i> , <b>2015</b> , 29, 490.1  | 0.9  | 1   |
| 247 | Direct determination of resonance energy transfer in photolyase: structural alignment for the functional state. <i>Journal of Physical Chemistry A</i> , <b>2014</b> , 118, 10522-30  | 2.8  | 18  |
| 246 | Dual modes of CLOCK:BMAL1 inhibition mediated by Cryptochrome and Period proteins in the mammalian circadian clock. <i>Genes and Development</i> , <b>2014</b> , 28, 1989-98  | 12.6 | 123 |
| 245 | Mechanism of photosignaling by Drosophila cryptochrome: role of the redox status of the flavin chromophore. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 4634-42   | 5.4  | 35  |
| 244 | Coupling of human DNA excision repair and the DNA damage checkpoint in a defined in vitro system. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 5074-82   | 5.4  | 45  |
| 243 | Highly specific and sensitive method for measuring nucleotide excision repair kinetics of ultraviolet photoproducts in human cells. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, e29   | 20.1 | 31  |
| 242 | Gene model 129 (Gm129) encodes a novel transcriptional repressor that modulates circadian gene expression. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 5013-24  | 5.4  | 42  |
| 241 | DNA repair synthesis and ligation affect the processing of excised oligonucleotides generated by human nucleotide excision repair. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 26574-26583                                  | 5.4  | 26  |
| 240 | Formation of Arabidopsis Cryptochrome 2 photobodies in mammalian nuclei: application as an optogenetic DNA damage checkpoint switch. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 23244-51                                   | 5.4  | 32  |
| 239 | Ramshackle (Brwd3) promotes light-induced ubiquitylation of Drosophila Cryptochrome by DDB1-CUL4-ROC1 E3 ligase complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 4980-5 | 11.5 | 45  |

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| 238 | DNA damage-specific control of cell death by cryptochrome in p53-mutant ras-transformed cells. <i>Cancer Research</i> , <b>2013</b> , 73, 785-91  | 10.1 | 30  |
| 237 | Direct role for the replication protein treslin (Ticrr) in the ATR kinase-mediated checkpoint response. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 18903-10  | 5.4  | 14  |
| 236 | Nucleotide excision repair in human cells: fate of the excised oligonucleotide carrying DNA damage in vivo. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 20918-20926   | 5.4  | 61  |
| 235 | Dynamic determination of the functional state in photolyase and the implication for cryptochrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 12972-7   | 11.5 | 40  |
| 234 | 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> , <b>2013</b> , 110, 12966-71  | 11.5 | 72  |
| 233 | The second chromophore in Drosophila photolyase/cryptochrome family photoreceptors. <i>Biochemistry</i> , <b>2012</b> , 51, 167-71  | 3.2  | 32  |
| 232 | Blue-light-receptive cryptochrome is expressed in a sponge eye lacking neurons and opsin. <i>Journal of Experimental Biology</i> , <b>2012</b> , 215, 1278-86   | 3    | 65  |
| 231 | Electron tunneling pathways and role of adenine in repair of cyclobutane pyrimidine dimer by DNA photolyase. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8104-14   | 16.4 | 56  |
| 230 | Effect of circadian clock mutations on DNA damage response in mammalian cells. <i>Cell Cycle</i> , <b>2012</b> , 11, 3481-91  | 4.7  | 36  |
| 229 | In vitro analysis of the role of replication protein A (RPA) and RPA phosphorylation in ATR-mediated checkpoint signaling. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 36123-31   | 5.4  | 20  |
| 228 | DNA excision repair: where do all the dimers go?. <i>Cell Cycle</i> , <b>2012</b> , 11, 2997-3002   | 4.7  | 26  |
| 227 | Mechanism of release and fate of excised oligonucleotides during nucleotide excision repair. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 22889-99   | 5.4  | 63  |
| 226 | Control of skin cancer by the circadian rhythm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 18790-5   | 11.5 | 155 |
| 225 | 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> , <b>2011</b> , 108, 12036-41  | 11.5 | 74  |
| 224 | Tethering DNA damage checkpoint mediator proteins topoisomerase IIbeta-binding protein 1 (TopBP1) and Claspin to DNA activates ataxia-telangiectasia mutated and RAD3-related (ATR) phosphorylation of checkpoint kinase 1 (Chk1). <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 19229-36 | 5.4  | 30  |
| 223 | 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> , <b>2011</b> , 108, 14831-6  | 11.5 | 130 |
| 222 | Reaction mechanism of Drosophila cryptochrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 516-21   | 11.5 | 102 |
| 221 | Regulation of nucleotide excision repair activity by transcriptional and post-transcriptional control of the XPA protein. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, 3176-87   | 20.1 | 89  |



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| 220 | The DNA damage response kinases DNA-dependent protein kinase (DNA-PK) and ataxia telangiectasia mutated (ATM) Are stimulated by bulky adduct-containing DNA. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 19237-46   | 5.4  | 26  |
| 219 | Circadian clock disruption improves the efficacy of chemotherapy through p73-mediated apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 10668-72               | 11.5 | 51  |
| 218 | Biochemical analysis of the canonical model for the mammalian circadian clock. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 25891-902  | 5.4  | 87  |
| 217 | Multiple ATR-Chk1 pathway proteins preferentially associate with checkpoint-inducing DNA substrates. <i>PLoS ONE</i> , <b>2011</b> , 6, e22986  | 3.7  | 11  |
| 216 | Dynamics and mechanism of repair of ultraviolet-induced (6-4) photoproduct by photolyase. <i>Nature</i> , <b>2010</b> , 466, 887-890  | 50.4 | 165 |
| 215 | Tipin-replication protein A interaction mediates Chk1 phosphorylation by ATR in response to genotoxic stress. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 16562-71  | 5.4  | 80  |
| 214 | Similar nucleotide excision repair capacity in melanocytes and melanoma cells. <i>Cancer Research</i> , <b>2010</b> , 70, 4922-30   | 10.1 | 50  |
| 213 | 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> , <b>2010</b> , 107, 2914-9   | 11.5 | 63  |
| 212 | An alternative form of replication protein a expressed in normal human tissues supports DNA repair. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 4788-97   | 5.4  | 21  |
| 211 | 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> , <b>2010</b> , 107, 4890-5 | 11.5 | 169 |
| 210 | Interactions of human mismatch repair proteins MutSalpha and MutLalpha with proteins of the ATR-Chk1 pathway. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 5974-82   | 5.4  | 59  |
| 209 | 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> , <b>2010</b> , 107, 13660-5                                 | 11.5 | 90  |
| 208 | Circadian clock control of the cellular response to DNA damage. <i>FEBS Letters</i> , <b>2010</b> , 584, 2618-25  | 3.8  | 172 |
| 207 | Interactions of human mismatch repair proteins MutSalpha and MutLalpha with proteins of the ATR-Chk1 pathway. <i>FASEB Journal</i> , <b>2010</b> , 24, 492.10   | 0.9  |     |
| 206 | Reconstitution of human claspin-mediated phosphorylation of Chk1 by the ATR (ataxia telangiectasia-mutated and rad3-related) checkpoint kinase. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 33107-14                | 5.4  | 39  |
| 205 | Long patch base excision repair proceeds via coordinated stimulation of the multienzyme DNA repair complex. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 15158-72  | 5.4  | 43  |
| 204 | Circadian regulation of DNA excision repair: implications for chrono-chemotherapy. <i>Cell Cycle</i> , <b>2009</b> , 8, 1665-7  | 4.7  | 68  |
| 203 | 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> , <b>2009</b> , 106, 2841-6   | 11.5 | 137 |

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|-----|---|------|-----|
| 202 | Cooperative activation of the ATR checkpoint kinase by TopBP1 and damaged DNA. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, 1501-9   | 20.1 | 36  |
| 201 | Circadian oscillation of nucleotide excision repair in mammalian brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 2864-7  | 11.5 | 149 |
| 200 | DNA distress: just ring 9-1-1. <i>Current Biology</i> , <b>2009</b> , 19, R733-4  | 6.3  | 11  |
| 199 | Comparative photochemistry of animal type 1 and type 4 cryptochromes. <i>Biochemistry</i> , <b>2009</b> , 48, 8585-93   | 3.2  | 49  |
| 198 | The influence of repair pathways on the cytotoxicity and mutagenicity induced by the pyridyloxobutylation pathway of tobacco-specific nitrosamines. <i>Chemical Research in Toxicology</i> , <b>2009</b> , 22, 1464-72                                  | 4    | 26  |
| 197 | The human ATR-mediated DNA damage checkpoint in a reconstituted system. <i>Methods</i> , <b>2009</b> , 48, 3-7  | 4.6  | 19  |
| 196 | Long Patch Base Excision Repair proceeds via coordinated stimulation of the multienzyme repair complex. <i>FASEB Journal</i> , <b>2009</b> , 23, 836.13   | 0.9  |     |
| 195 | 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> , <b>2008</b> , 105, 8902-7 | 11.5 | 198 |
| 194 | Ultrafast dynamics of flavins in five redox states. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 13132-9  | 16.4 | 173 |
| 193 | Purification and characterization of a type III photolyase from <i>Caulobacter crescentus</i> . <i>Biochemistry</i> , <b>2008</b> , 47, 10255-61  | 3.2  | 37  |
| 192 | Ultrafast dynamics and anionic active states of the flavin cofactor in cryptochrome and photolyase. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 7695-701   | 16.4 | 112 |
| 191 | Animal type 1 cryptochromes. Analysis of the redox state of the flavin cofactor by site-directed mutagenesis. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 3256-3263   | 5.4  | 98  |
| 190 | Sleep deprivation effects on circadian clock gene expression in the cerebral cortex parallel electroencephalographic differences among mouse strains. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 7193-201                                       | 6.6  | 101 |
| 189 | Structure and function of photolyase and in vivo enzymology: 50th anniversary. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 32153-7  | 5.4  | 140 |
| 188 | Cryptochromes and Inner Retinal Non-Visual Irradiance Detection. <i>Novartis Foundation Symposium</i> , <b>2008</b> , 31-51   |      | 4   |
| 187 | Resonance Raman spectroscopic investigation of the light-harvesting chromophore in <i>Escherichia coli</i> photolyase and <i>Vibrio cholerae</i> cryptochrome-1. <i>Biochemistry</i> , <b>2007</b> , 46, 3673-81  | 3.2  | 8   |
| 186 | A mathematical model for human nucleotide excision repair: damage recognition by random order assembly and kinetic proofreading. <i>Journal of Theoretical Biology</i> , <b>2007</b> , 249, 361-75  | 2.3  | 27  |
| 185 | Femtochemistry in enzyme catalysis: DNA photolyase. <i>Cell Biochemistry and Biophysics</i> , <b>2007</b> , 48, 32-44   | 3.2  | 37  |



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| 184 | Cdc7-Dbf4 and the human S checkpoint response to UVC. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 9458-9468  | 5.6  | 59  |
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| 49 | Cloning, sequencing, expression and characterization of DNA photolyase from <i>Salmonella typhimurium</i> . <i>Nucleic Acids Research</i> , <b>1991</b> , 19, 4885-90   | 20.1 | 31  |
| 48 | 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> , <b>1991</b> , 30, 6322-9  | 3.2  | 147 |
| 47 | 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> , <b>1991</b> , 113, 3143-3145                                 | 16.4 | 84  |
| 46 | Determination of rates and yields of interchromophore (folate----flavin) energy transfer and intermolecular (flavin----DNA) electron transfer in <i>Escherichia coli</i> photolyase by time-resolved fluorescence and absorption spectroscopy. <i>Biochemistry</i> , <b>1991</b> , 30, 11262-70 | 3.2  | 117 |
| 45 | Effect of base, pentose, and phosphodiester backbone structures on binding and repair of pyrimidine dimers by <i>Escherichia coli</i> DNA photolyase. <i>Biochemistry</i> , <b>1991</b> , 30, 8623-30   | 3.2  | 115 |
| 44 | 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> , <b>1991</b> , 219, 27-36  | 6.5  | 67  |
| 43 | The repair patch of <i>E. coli</i> (A)BC excinuclease. <i>Nucleic Acids Research</i> , <b>1990</b> , 18, 5051-3   | 20.1 | 31  |
| 42 | Excited-state properties of <i>Escherichia coli</i> DNA photolyase in the picosecond to millisecond time scale. <i>Biochemistry</i> , <b>1990</b> , 29, 5694-8  | 3.2  | 67  |
| 41 | Absolute action spectrum of E-FADH2 and E-FADH2-MTHF forms of <i>Escherichia coli</i> DNA photolyase. <i>Biochemistry</i> , <b>1990</b> , 29, 7715-27   | 3.2  | 91  |

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| 40 | Structure and function of the (A)BC excinuclease of Escherichia coli. <i>Mutation Research DNA Repair</i> , <b>1990</b> , 236, 203-11   |      | 58  |
| 39 | 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> , <b>1990</b> , 29, 5698-706                                    | 3.2  | 66  |
| 38 | Reconstitution of Escherichia coli photolyase with flavins and flavin analogues. <i>Biochemistry</i> , <b>1990</b> , 29, 5706-11  | 3.2  | 66  |
| 37 | Human nucleotide excision repair in vitro: repair of pyrimidine dimers, psoralen and cisplatin adducts by HeLa cell-free extract. <i>Nucleic Acids Research</i> , <b>1989</b> , 17, 4471-84   | 20.1 | 140 |
| 36 | The LexA protein does not bind specifically to the two SOS box-like sequences immediately 5Rto the phr gene. <i>Mutation Research DNA Repair</i> , <b>1989</b> , 218, 207-10  |      | 14  |
| 35 | Doublet-quartet intersystem crossing of flavin radical in DNA photolyase. <i>Journal of the American Chemical Society</i> , <b>1989</b> , 111, 5967-5969  | 16.4 | 40  |
| 34 | A new mechanism for repairing oxidative damage to DNA: (A)BC excinuclease removes AP sites and thymine glycols from DNA. <i>Biochemistry</i> , <b>1989</b> , 28, 7979-84  | 3.2  | 167 |
| 33 | Photoreactivation of killing in E. coli K-12 phr- cells is not caused by pyrimidine dimer reversal. <i>Photochemistry and Photobiology</i> , <b>1988</b> , 48, 233-4  | 3.6  | 17  |
| 32 | DNA repair enzymes. <i>Annual Review of Biochemistry</i> , <b>1988</b> , 57, 29-67  | 29.1 | 750 |
| 31 | Binding of E. coli DNA photolyase to a defined substrate containing a single T mean value of T dimer. <i>Nucleic Acids Research</i> , <b>1987</b> , 15, 1109-20   | 20.1 | 85  |
| 30 | Utilization of DNA photolyase, pyrimidine dimer endonucleases, and alkali hydrolysis in the analysis of aberrant ABC excinuclease incisions adjacent to UV-induced DNA photoproducts. <i>Nucleic Acids Research</i> , <b>1987</b> , 15, 1227-43 | 20.1 | 50  |
| 29 | 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> , <b>1987</b> , 26, 7121-7  | 3.2  | 107 |
| 28 | Photochemical properties of Escherichia coli DNA photolyase: selective photodecomposition of the second chromophore. <i>Biochemistry</i> , <b>1987</b> , 26, 4634-40  | 3.2  | 72  |
| 27 | Structure and function of DNA photolyases. <i>Trends in Biochemical Sciences</i> , <b>1987</b> , 12, 259-261  | 10.3 | 45  |
| 26 | High-performance liquid chromatographic separation of platinum complexes containing the cis-1,2-diaminocyclohexane carrier ligand. <i>Analytical Biochemistry</i> , <b>1986</b> , 157, 129-43   | 3.1  | 29  |
| 25 | Sequences of the E. coli uvrB gene and protein. <i>Nucleic Acids Research</i> , <b>1986</b> , 14, 2637-50   | 20.1 | 83  |
| 24 | Photochemical properties of Escherichia coli DNA photolyase: a flash photolysis study. <i>Biochemistry</i> , <b>1986</b> , 25, 8163-6   | 3.2  | 57  |
| 23 | Repair of psoralen and acetylaminofluorene DNA adducts by ABC excinuclease. <i>Journal of Molecular Biology</i> , <b>1985</b> , 184, 725-34   | 6.5  | 70  |

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| 22 | Binding of Escherichia coli DNA photolyase to UV-irradiated DNA. <i>Biochemistry</i> , <b>1985</b> , 24, 1849-55  | 3.2  | 68  |
| 21 | Identification of oligothymidylates as new simple substrates for Escherichia coli DNA photolyase and their use in a rapid spectrophotometric enzyme assay. <i>Biochemistry</i> , <b>1985</b> , 24, 1856-61                    | 3.2  | 66  |
| 20 | Sequences of the E. coli uvrC gene and protein. <i>Nucleic Acids Research</i> , <b>1984</b> , 12, 4593-608  | 20.1 | 68  |
| 19 | Identification of a neutral flavin radical and characterization of a second chromophore in Escherichia coli DNA photolyase. <i>Biochemistry</i> , <b>1984</b> , 23, 2673-9  | 3.2  | 128 |
| 18 | Escherichia coli DNA photolyase is a flavoprotein. <i>Journal of Molecular Biology</i> , <b>1984</b> , 172, 223-7   | 6.5  | 115 |
| 17 | Analysis of mRNA synthesis following induction of the Escherichia coli SOS system. <i>Journal of Molecular Biology</i> , <b>1984</b> , 178, 237-48  | 6.5  | 34  |
| 16 | A novel repair enzyme: UVRABC excision nuclease of Escherichia coli cuts a DNA strand on both sides of the damaged region. <i>Cell</i> , <b>1983</b> , 33, 249-60   | 56.2 | 561 |
| 15 | Identification and amplification of the E. coli phr gene product. <i>Nucleic Acids Research</i> , <b>1983</b> , 11, 6667-78   | 20.1 | 48  |
| 14 | Properties and regulation of the UVRABC endonuclease. <i>Biochimie</i> , <b>1982</b> , 64, 595-8  | 4.6  | 29  |
| 13 | The uvrB gene of Escherichia coli has both lexA-repressed and lexA-independent promoters. <i>Cell</i> , <b>1982</b> , 28, 523-30  | 56.2 | 138 |
| 12 | LexA protein inhibits transcription of the E. coli uvrA gene in vitro. <i>Nature</i> , <b>1982</b> , 298, 96-8  | 50.4 | 63  |
| 11 | Identification of the uvrA gene product. <i>Journal of Molecular Biology</i> , <b>1981</b> , 148, 45-62   | 6.5  | 263 |
| 10 | Identification of the uvrB gene product. <i>Journal of Molecular Biology</i> , <b>1981</b> , 148, 63-76   | 6.5  | 86  |
| 9  | A general approach for purifying proteins encoded by cloned genes without using a functional assay: isolation of the uvrA gene product from radiolabeled maxicells. <i>Nucleic Acids Research</i> , <b>1981</b> , 9, 4495-508 | 20.1 | 40  |
| 8  | Amplification of single-strand DNA binding protein in Escherichia coli. <i>Nucleic Acids Research</i> , <b>1980</b> , 8, 3215-27  | 20.1 | 97  |
| 7  | Cloning of uvrA, lexC and ssb genes of Escherichia coli. <i>Biochemical and Biophysical Research Communications</i> , <b>1979</b> , 90, 123-9   | 3.4  | 82  |
| 6  | Determination of plasmid molecular weights from ultraviolet sensitivities. <i>Nature</i> , <b>1978</b> , 272, 471-2   | 50.4 | 84  |
| 5  | Cloning of the phr gene and amplification of photolyase in Escherichia coli. <i>Gene</i> , <b>1978</b> , 4, 295-308   | 3.8  | 61  |

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| 4 | Genome-wide circadian rhythm detection methods: systematic evaluations and practical guidelines  | 1 |
| 3 | 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 | 1 |
| 2 | CRYPTOCHROMES confer robustness, not rhythmicity, to circadian timekeeping   | 1 |
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