

Shigenori Iwai

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.

59
papers

726
citations

14
h-index

25
g-index

64
ext. papers

865
ext. citations

6.7
avg, IF

3.8
L-index

#	Paper	IF	Citations
59	Human Mitochondrial DNA Polymerase Metal Dependent UV Lesion Bypassing Ability.. <i>Frontiers in Molecular Biosciences</i> , 2022 , 9, 808036	5.6	0
58	Limited solvation of an electron donating tryptophan stabilizes a photoinduced charge-separated state in plant (6-4) photolyase.. <i>Scientific Reports</i> , 2022 , 12, 5084	4.9	0
57	Novel plasmids for the fluorescence-based evaluation of DNA mismatch repair in human cells.. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2022 , 824, 111779	3.3	
56	endonuclease V is a ribonuclease specific for inosine-containing single-stranded RNA. <i>Open Biology</i> , 2021 , 11, 210148	7	0
55	Key interactions with deazariboflavin cofactor for light-driven energy transfer in Xenopus (6-4) photolyase. <i>Photochemical and Photobiological Sciences</i> , 2021 , 20, 875-887	4.2	0
54	Topoisomerase I-driven repair of UV-induced damage in NER-deficient cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 14412-14420	11.5	8
53	Effects of acetaldehyde-induced DNA lesions on DNA metabolism. <i>Genes and Environment</i> , 2020 , 42, 2	2.8	2
52	Development CRISPR-Cas12-based rapid EGFR mutation detection kit.. <i>Journal of Clinical Oncology</i> , 2020 , 38, e13669-e13669	2.2	1
51	Plant organellar DNA polymerases bypass thymine glycol using two conserved lysine residues. <i>Biochemical Journal</i> , 2020 , 477, 1049-1059	3.8	1
50	Effect of sequence context on Pol η dependent error-prone extension past (6-4) photoproducts. <i>DNA Repair</i> , 2020 , 87, 102771	4.3	3
49	Molecular Basis of Substrate Recognition of Endonuclease Q from the Euryarchaeon <i>Pyrococcus furiosus</i> . <i>Journal of Bacteriology</i> , 2020 , 202,	3.5	4
48	Mutational analysis of <i>Thermococcus kodakarensis</i> Endonuclease III reveals the roles of evolutionarily conserved residues. <i>DNA Repair</i> , 2020 , 90, 102859	4.3	3
47	Enhanced DNA repair by DNA photolyase bearing an artificial light-harvesting chromophore. <i>Nucleic Acids Research</i> , 2020 , 48, 10076-10086	20.1	4
46	Mechanism and regulation of DNA damage recognition in nucleotide excision repair. <i>Genes and Environment</i> , 2019 , 41, 2	2.8	50
45	DNA damage detection in nucleosomes involves DNA register shifting. <i>Nature</i> , 2019 , 571, 79-84	50.4	41
44	Implications of a Water Molecule for Photoactivation of Plant (6-4) Photolyase. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 5059-5068	3.4	2
43	Acetaldehyde forms covalent GG intrastrand crosslinks in DNA. <i>Scientific Reports</i> , 2019 , 9, 660	4.9	15

42	Fluorescence detection of DNA mismatch repair in human cells. <i>Scientific Reports</i> , 2018 , 8, 12181	4.9	5
41	Coulomb and CH- π Interactions in (6-4) photolyase-DNA complex dominate DNA binding and repair abilities. <i>Nucleic Acids Research</i> , 2018 , 46, 6761-6772	20.1	8
40	An assay to detect DNA-damaging agents that induce nucleotide excision-repairable DNA lesions in living human cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2017 , 820, 1-7	3	3
39	Facile preparation of a fluorescent probe to detect the cellular ability of nucleotide excision repair. <i>Analytical Biochemistry</i> , 2017 , 526, 71-74	3.1	1
38	Loss of Fourth Electron-Transferring Tryptophan in Animal (6-4) Photolyase Impairs DNA Repair Activity in Bacterial Cells. <i>Biochemistry</i> , 2017 , 56, 5356-5364	3.2	16
37	The dominant role of proofreading exonuclease activity of replicative polymerase β in cellular tolerance to cytarabine (Ara-C). <i>Oncotarget</i> , 2017 , 8, 33457-33474	3.3	14
36	Functional Conversion of CPD and (6-4) Photolyases by Mutation. <i>Biochemistry</i> , 2016 , 55, 4173-83	3.2	14
35	In vivo evidence for translesion synthesis by the replicative DNA polymerase β <i>Nucleic Acids Research</i> , 2016 , 44, 7242-50	20.1	28
34	Structural Changes of the Active Center during the Photoactivation of Xenopus (6-4) Photolyase. <i>Biochemistry</i> , 2016 , 55, 715-23	3.2	8
33	Crystal structure of the nucleosome containing ultraviolet light-induced cyclobutane pyrimidine dimer. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 471, 117-22	3.4	13
32	Chemical Incorporation of Chain-Terminating Nucleoside Analogs as 3SBlocking DNA Damage and Their Removal by Human ERCC1-XPF Endonuclease. <i>Molecules</i> , 2016 , 21,	4.8	3
31	Inosine-specific ribonuclease activity of natural variants of human endonuclease V. <i>FEBS Letters</i> , 2016 , 590, 4354-4360	3.8	3
30	Repriming by PrimPol is critical for DNA replication restart downstream of lesions and chain-terminating nucleosides. <i>Cell Cycle</i> , 2016 , 15, 1997-2008	4.7	58
29	Functional regulation of the DNA damage-recognition factor DDB2 by ubiquitination and interaction with xeroderma pigmentosum group C protein. <i>Nucleic Acids Research</i> , 2015 , 43, 1700-13	20.1	39
28	SUMOylation of xeroderma pigmentosum group C protein regulates DNA damage recognition during nucleotide excision repair. <i>Scientific Reports</i> , 2015 , 5, 10984	4.9	28
27	Repair synthesis step involving ERCC1-XPF participates in DNA repair of the Top1-DNA damage complex. <i>Carcinogenesis</i> , 2015 , 36, 841-51	4.6	21
26	Abacavir, an anti-HIV-1 drug, targets TDP1-deficient adult T cell leukemia. <i>Science Advances</i> , 2015 , 1, e1400203	14.3	24
25	Excision of translesion synthesis errors orchestrates responses to helix-distorting DNA lesions. <i>Journal of Cell Biology</i> , 2015 , 209, 33-46	7.3	12

24	Bisnaphthalimidopropyl diaminodicyclohexylmethane induces DNA damage and repair instability in triple negative breast cancer cells via p21 expression. <i>Chemico-Biological Interactions</i> , 2015 , 242, 307-15	5	8
23	Structural basis of pyrimidine-pyrimidone (6-4) photoproduct recognition by UV-DDB in the nucleosome. <i>Scientific Reports</i> , 2015 , 5, 16330	4.9	32
22	An in vitro method for detecting genetic toxicity based on inhibition of RNA synthesis by DNA lesions. <i>Genes and Environment</i> , 2015 , 37, 8	2.8	6
21	Chlorella virus pyrimidine dimer glycosylase and Escherichia coli endonucleases IV and V have incision activity on 2,2,4-triamino-5(2H)-oxazolone. <i>Genes and Environment</i> , 2015 , 37, 22	2.8	2
20	Structural role of two histidines in the (6-4) photolyase reaction. <i>Biophysics and Physicobiology</i> , 2015 , 12, 139-44	1.4	8
19	FTIR study of CPD photolyase with substrate in single strand DNA. <i>Biophysics (Nagoya-shi, Japan)</i> , 2015 , 11, 39-45		7
18	Analysis of structural flexibility of damaged DNA using thiol-tethered oligonucleotide duplexes. <i>PLoS ONE</i> , 2015 , 10, e0117798	3.7	1
17	Fluorescence detection of cellular nucleotide excision repair of damaged DNA. <i>Scientific Reports</i> , 2014 , 4, 5578	4.9	7
16	Monitoring repair of UV-induced 6-4-photoproducts with a purified DDB2 protein complex. <i>PLoS ONE</i> , 2014 , 9, e85896	3.7	10
15	Preparation of oligodeoxyribonucleotides containing the pyrimidine(6-4)pyrimidone photoproduct by using a dinucleotide building block. <i>Current Protocols in Nucleic Acid Chemistry</i> , 2013 , Chapter 4, Unit 4.56	0.5	1
14	UV damage endonuclease employs a novel dual-dinucleotide flipping mechanism to recognize different DNA lesions. <i>Nucleic Acids Research</i> , 2013 , 41, 1363-71	20.1	20
13	1P249 FTIR study of isotope-labeled CPD-Photolyase(18A. Photobiology: Vision & Photoreception,Poster). <i>Seibutsu Butsuri</i> , 2013 , 53, S147	0	
12	Repair of the (6-4) Photoproduct by DNA Photolyase Requires Two Photons. <i>Angewandte Chemie</i> , 2013 , 125, 7580-7584	3.6	5
11	3Q1422 FTIR Study of Light-Dependent Activation and DNA Repair Processes of E. coli CPD Photolyase(Photobiology : Vision & Photoreception4,The 49th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2011 , 51, S161-S162	0	
10	3Q1434 Spectroscopic study of light-dependent activation and DNA repair processes of(Photobiology : Vision & Photoreception4,The 49th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2011 , 51, S162	0	
9	Substrate Assignment of the (6-4) Photolyase Reaction by FTIR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2774-2777	6.4	13
8	1P123 Low-temperature FTIR study of photoactivation and photorepair processes of (6-4) photolyase(Nucleic acid binding proteins,The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S41	0	
7	3P264 FTIR Study of Photorepair of Single Strand DNA Lesion by Cryptochrome DASH(Photobiology: Vision & Photoreception,The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010 , 50, S191-S192	0	

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| 6 | 3P-211 Direct observation of enzymatic (6-4) photoproduct conversion by FTIR spectroscopy(Photobiology:Vision & Photoreception,The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009 , 49, S186-S187 | o | |
| 5 | Chemical synthesis of oligonucleotides containing damaged bases for biological studies. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2006 , 25, 561-82 | 1.4 | 13 |
| 4 | DDB1-DDB2 (xeroderma pigmentosum group E) protein complex recognizes a cyclobutane pyrimidine dimer, mismatches, apurinic/apyrimidinic sites, and compound lesions in DNA. <i>Journal of Biological Chemistry</i> , 2005 , 280, 39982-9 | 5.4 | 119 |
| 3 | Towards artificial repair of UV-damaged DNA: studies on drug binding and alkali hydrolysis. <i>Nucleic Acids Symposium Series</i> , 2003 , 181-2 | | |
| 2 | Catalysis by Escherichia coli ribonuclease HI is facilitated by a phosphate group of the substrate. <i>Biochemistry</i> , 2000 , 39, 13939-44 | 3.2 | 32 |
| 1 | Pyrimidine Dimers: UV-Induced DNA Damage97-131 | | 8 |