Bennett Van Houten

List of Publications by Year
in descending order

74	3,783	109321	133252
papers	citations	35 h-index	59 g-index

77	77	77	5579
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of mitochondrial DNA in toxic responses to oxidative stress. DNA Repair, 2006, 5, 145-152.	2.8	372
2	ARTD1/PARP1 Negatively Regulates Glycolysis by Inhibiting Hexokinase 1 Independent of NAD + Depletion. Cell Reports, 2014, 8, 1819-1831.	6.4	169
3	Mitochondrial DNA damage: Molecular marker of vulnerable nigral neurons in Parkinson's disease. Neurobiology of Disease, 2014, 70, 214-223.	4.4	155
4	Collaborative Dynamic DNA Scanning by Nucleotide Excision Repair Proteins Investigated by Single-Molecule Imaging of Quantum-Dot-Labeled Proteins. Molecular Cell, 2010, 37, 702-713.	9.7	139
5	â€˜Close-fitting sleevesâ€™: DNA damage recognition by the UvrABC nuclease system. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2005, 577, 92-117.	1.0	125
6	Mitochondrial DNA damage induced autophagy cell death and disease. Frontiers in Bioscience - Landmark, 2016, 21, 42-54.	3.0	125
7	Chemoptogenetic damage to mitochondria causes rapid telomere dysfunction. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18435-18444.	7.1	103
8	UvrABC nuclease complex repairs thymine glycol, an oxidative DNA base damage. Mutation Research DNA Repair, 1990, 235, 147-156.	3.7	102
9	Cancer-Associated Fibroblasts Drive Glycolysis in a Targetable Signaling Loop Implicated in Head and Neck Squamous Cell Carcinoma Progression. Cancer Research, 2018, 78, 3769-3782.	0.9	96
10	Analysis of DNA Damage and Repair in Nuclear and Mitochondrial DNA of Animal Cells Using Quantitative PCR. Methods in Molecular Biology, 2012, 920, 111-132.	0.9	86
11	Interaction of the UvrABC Nuclease System with a DNA Duplex Containing a Single Stereoisomer of dG-(+)- or dG-(-)-anti-BPDE. Biochemistry, 1995, 34, 13582-13593.	2.5	82
12	Novel method for site-specific induction of oxidative DNA damage reveals differences in recruitment of repair proteins to heterochromatin and euchromatin. Nucleic Acids Research, 2014, 42, 2330-2345.	14.5	79
13	Kinetic gating mechanism of DNA damage recognition by Rad4/XPC. Nature Communications, 2015, 6, 5849.	12.8	78
14	Single-Molecule Imaging Reveals that Rad4 Employs a Dynamic DNA Damage Recognition Process. Molecular Cell, 2016, 64, 376-387.	9.7	76
15	DNA repair after oxidative stress: Current challenges. Current Opinion in Toxicology, 2018, 7, 9-16.	5.0	76
16	Damaged DNA induced UV-damaged DNA-binding protein (UV-DDB) dimerization and its roles in chromatinized DNA repair. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2737-46.	7.1	74
17	PARP1 changes from three-dimensional DNA damage searching to one-dimensional diffusion after auto-PARylation or in the presence of APE1. Nucleic Acids Research, 2017, 45, 12834-12847.	14.5	71
18	Invasive lobular and ductal breast carcinoma differ in immune response, protein translation efficiency and metabolism. Scientific Reports, 2018, 8, 7205.	3.3	71

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19	The involvement of nucleotide excision repair proteins in the removal of oxidative DNA damage. Nucleic Acids Research, 2020, 48, 11227-11243.	14.5	70
20	Damage sensor role of UV-DDB during base excision repair. Nature Structural and Molecular Biology, 2019, 26, 695-703.	8.2	64
21	The Shu complex interacts with Rad51 through the Rad51 paralogues Rad55â€“Rad57 to mediate error-free recombination. Nucleic Acids Research, 2013, 41, 4525-4534.	14.5	59
22	Single-molecule analysis reveals human UV-damaged DNA-binding protein (UV-DDB) dimerizes on DNA via multiple kinetic intermediates. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1862-71.	7.1	59
23	Regulation of aged skeletal muscle regeneration by circulating extracellular vesicles. Nature Aging, 2021, 1, 1148-1161.	11.6	59
24	Role of XPD in cellular functions: To TFIIH and beyond. DNA Repair, 2016, 44, 136-142.	2.8	55
25	Repair of Hydantoin Lesions and Their Amine Adducts in DNA by Base and Nucleotide Excision Repair. Journal of the American Chemical Society, 2013, 135, 13851-13861.	13.7	53
26	Functional Characterization and Atomic Force Microscopy of a DNA Repair Protein Conjugated to a Quantum Dot. Nano Letters, 2008, 8, 1631-1637.	9.1	52
27	Studying protein-DNA interactions using atomic force microscopy. Seminars in Cell and Developmental Biology, 2018, 73, 220-230.	5.0	48
28	Evaluation of mitochondrial bioenergetics, dynamics, endoplasmic reticulum-mitochondria crosstalk, and reactive oxygen species in fibroblasts from patients with complex I deficiency. Scientific Reports, 2018, 8, 1165.	3.3	47
29	Cooperation and interplay between base and nucleotide excision repair pathways: From DNA lesions to proteins. Genetics and Molecular Biology, 2020, 43, e20190104.	1.3	47
30	Mitochondrial division inhibitor 1 (mdivi-1) enhances death receptor-mediated apoptosis in human ovarian cancer cells. Biochemical and Biophysical Research Communications, 2015, 456, 7-12.	2.1	46
31	Overexpression of Mitochondrial Sirtuins Alters Glycolysis and Mitochondrial Function in HEK293 Cells. PLoS ONE, 2014, 9, e106028.	2.5	45
32	A cut above: Discovery of an alternative excision repair pathway in bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2581-2583.	7.1	42
33	UvrB Domain 4, an Autoinhibitory Gate for Regulation of DNA Binding and ATPase Activity. Journal of Biological Chemistry, 2006, 281, 15227-15237.	3.4	42
34	Mitochondrial energetics is impaired in very long-chain acyl-CoA dehydrogenase deficiency and can be rescued by treatment with mitochondria-targeted electron scavengers. Human Molecular Genetics, 2019, 28, 928-941.	2.9	41
35	High Mobility Group Box 1 (HMGB1) Phenotypic Role Revealed with Stress. Molecular Medicine, 2014, 20, 359-362.	4.4	37
36	Telomeric 8-oxo-guanine drives rapid premature senescence in the absence of telomere shortening. Nature Structural and Molecular Biology, 2022, 29, 639-652.	8.2	35

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37	Effects on <scp>DNA</scp> Damage and/or Repair Processes as Biological Mechanisms Linking Psychological Stress to Cancer Risk. Journal of Applied Biobehavioral Research, 2014, 19, 3-23.	2.0	33
38	PARP1: Structural insights and pharmacological targets for inhibition. DNA Repair, 2021, 103, 103125.	2.8	32
39	Global and transcription-coupled repair of 8-oxoG is initiated by nucleotide excision repair proteins. Nature Communications, 2022, 13, 974.	12.8	32
40	POLB: A new role of DNA polymerase beta in mitochondrial base excision repair. DNA Repair, 2017, 60, A1-A5.	2.8	29
41	TAp73 promotes cell survival upon genotoxic stress by inhibiting p53 activity. Oncotarget, 2014, 5, 8107-8122.	1.8	27
42	The Rad51 paralogs facilitate a novel DNA strand specific damage tolerance pathway. Nature Communications, 2019, 10, 3515.	12.8	26
43	Differential Incision of Bulky Carcinogenâ˜'DNA Adducts by the UvrABC Nuclease:â€‰ Comparison of Incision Rates and the Interactions of Uvr Subunits with Lesions of Different Structures. Biochemistry, 2000, 39, 12252-12261.	2.5	25
44	Quantifying Metabolic Heterogeneity in Head and Neck Tumors in Real Time: 2-DG Uptake Is Highest in Hypoxic Tumor Regions. PLoS ONE, 2014, 9, e102452.	2.5	25
45	Mitochondrial targeted Î²-lapachone induces mitochondrial dysfunction and catastrophic vacuolization in cancer cells. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 4828-4833.	2.2	24
46	Rad4 recognition-at-a-distance: Physical basis of conformation-specific anomalous diffusion of DNA repair proteins. Progress in Biophysics and Molecular Biology, 2017, 127, 93-104.	2.9	24
47	A novel strategy for targeted killing of tumor cells: Induction of multipolar acentrosomal mitotic spindles with a quinazolinone derivative mdiviâ€1. Molecular Oncology, 2015, 9, 488-502.	4.6	22
48	Expanding molecular roles of UV-DDB: Shining light on genome stability and cancer. DNA Repair, 2020, 94, 102860.	2.8	22
49	Inhibiting Mitochondrial DNA Ligase IIIÎ± Activates Caspase 1â€"Dependent Apoptosis in Cancer Cells. Cancer Research, 2016, 76, 5431-5441.	0.9	20
50	Optical Control of DNA Helicase Function through Genetic Code Expansion. ChemBioChem, 2017, 18, 466-469.	2.6	19
51	Single-Molecule Methods for Nucleotide Excision Repair: Building a System to Watch Repair in Real Time. Methods in Enzymology, 2017, 592, 213-257.	1.0	19
52	Investigation of bacterial nucleotide excision repair using single-molecule techniques. DNA Repair, 2014, 20, 41-48.	2.8	17
53	Single molecule analysis reveals monomeric XPA bends DNA and undergoes episodic linear diffusion during damage search. Nature Communications, 2020, 11, 1356.	12.8	16
54	Directly interrogating single quantum dot labelled UvrA2 molecules on DNA tightropes using an optically trapped nanoprobe. Scientific Reports, 2015, 5, 18486.	3.3	15

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55	AP-endonuclease 1 sculpts DNA through an anchoring tyrosine residue on the DNA intercalating loop. Nucleic Acids Research, 2020, 48, 7345-7355.	14.5	15
56	Single molecule analysis indicates stimulation of MUTYH by UV-DDB through enzyme turnover. Nucleic Acids Research, 2021, 49, 8177-8188.	14.5	15
57	The combination of thioxodihydroquinazolinones and platinum drugs reverses platinum resistance in tumor cells by inducing mitochondrial apoptosis independent of Bax and Bak. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 856-863.	2.2	14
58	Lactate oxidative phosphorylation by annulus fibrosus cells: evidence for lactate-dependent metabolic symbiosis in intervertebral discs. Arthritis Research and Therapy, 2021, 23, 145.	3.5	13
59	Searching for DNA Damage: Insights From Single Molecule Analysis. Frontiers in Molecular Biosciences, 2021, 8, 772877.	3.5	12
60	The Multiple Cellular Roles of SMUG1 in Genome Maintenance and Cancer. International Journal of Molecular Sciences, 2021, 22, 1981.	4.1	11
61	Guidelines for DNA recombination and repair studies: Mechanistic assays of DNA repair processes. Microbial Cell, 2019, 6, 65-101.	3.2	10
62	Single molecule techniques in DNA repair: A primer. DNA Repair, 2014, 20, 2-13.	2.8	9
63	Sick mitochondria cause telomere damage: implications for disease. Molecular and Cellular Oncology, 2020, 7, 1678362.	0.7	8
64	Huntingtonâ€™s Disease: Astrocytes Shift to Fatty Acid Metabolism. Trends in Endocrinology and Metabolism, 2019, 30, 575-577.	7.1	5
65	Combination of a thioxodihydroquinazolinone with cisplatin eliminates ovarian cancer stem cell-like cells (CSC-LCs) and shows preclinical potential. Oncotarget, 2018, 9, 6042-6054.	1.8	4
66	Transcriptional pausing to scout ahead for DNA damage. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3905-3906.	7.1	3
67	A tale of two cities: A tribute to Aziz Sancar's Nobel Prize in Chemistry for his molecular characterization of NER. DNA Repair, 2016, 37, A3-A13.	2.8	3
68	Chaperones for dancing on chromatin: Role of postâ€translational modifications in dynamic damage detection handâ€offs during nucleotide excision repair. BioEssays, 2021, 43, e2100011.	2.5	3
69	Dynamic action of DNA repair proteins as revealed by single molecule techniques: Seeing is believing. DNA Repair, 2020, 93, 102909.	2.8	2
70	Clamping down on copy errors. Nature, 2016, 539, 498-499.	27.8	1
71	Molecular cartography of mutational landscapes in melanomas. EMBO Journal, 2017, 36, 2812-2814.	7.8	1
72	Single-cell mutagenic responses and cell death revealed in real time. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7168-7170.	7.1	1

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73	Graphical snapshot of Samuel H. Wilson. DNA Repair, 2020, 93, 102934.	2.8	0
74	Mitochondrial DNA damage in vascular endothelial cells exposed to shear stress. FASEB Journal, 2009, 23, .	0.5	0