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	Global and transcription-coupled repair of 8-oxoG is initiated by nucleotide excision repair proteins. Nature Communications, 2022, 13, 974.	12.8	32
2	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
3	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
4	The Multiple Cellular Roles of SMUG1 in Genome Maintenance and Cancer. International Journal of Molecular Sciences, 2021, 22, 1981.	4.1	11
5	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
6	PARP1: Structural insights and pharmacological targets for inhibition. DNA Repair, 2021, 103, 103125.	2.8	32
7	Single molecule analysis indicates stimulation of MUTYH by UV-DDB through enzyme turnover. Nucleic Acids Research, 2021, 49, 8177-8188.	14.5	15
8	Searching for DNA Damage: Insights From Single Molecule Analysis. Frontiers in Molecular Biosciences, 2021, 8, 772877.	3.5	12
9	Regulation of aged skeletal muscle regeneration by circulating extracellular vesicles. Nature Aging, 2021, 1, 1148-1161.	11.6	59
10	The involvement of nucleotide excision repair proteins in the removal of oxidative DNA damage. Nucleic Acids Research, 2020, 48, 11227-11243.	14.5	70
11	Dynamic action of DNA repair proteins as revealed by single molecule techniques: Seeing is believing. DNA Repair, 2020, 93, 102909.	2.8	2
12	Graphical snapshot of Samuel H. Wilson. DNA Repair, 2020, 93, 102934.	2.8	0
13	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
14	Single molecule analysis reveals monomeric XPA bends DNA and undergoes episodic linear diffusion during damage search. Nature Communications, 2020, 11, 1356.	12.8	16
15	Expanding molecular roles of UV-DDB: Shining light on genome stability and cancer. DNA Repair, 2020, 94, 102860.	2.8	22
16	Sick mitochondria cause telomere damage: implications for disease. Molecular and Cellular Oncology, 2020, 7, 1678362.	0.7	8
17	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
18	The Rad51 paralogs facilitate a novel DNA strand specific damage tolerance pathway. Nature Communications, 2019, 10, 3515.	12.8	26

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19	Huntingtonâ€™s Disease: Astrocytes Shift to Fatty Acid Metabolism. Trends in Endocrinology and Metabolism, 2019, 30, 575-577.	7.1	5
20	Damage sensor role of UV-DDB during base excision repair. Nature Structural and Molecular Biology, 2019, 26, 695-703.	8.2	64
21	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
22	Guidelines for DNA recombination and repair studies: Mechanistic assays of DNA repair processes. Microbial Cell, 2019, 6, 65-101.	3.2	10
23	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
24	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
25	Studying protein-DNA interactions using atomic force microscopy. Seminars in Cell and Developmental Biology, 2018, 73, 220-230.	5.0	48
26	DNA repair after oxidative stress: Current challenges. Current Opinion in Toxicology, 2018, 7, 9-16.	5.0	76
27	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
28	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
29	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
30	Invasive lobular and ductal breast carcinoma differ in immune response, protein translation efficiency and metabolism. Scientific Reports, 2018, 8, 7205.	3.3	71
31	Optical Control of DNA Helicase Function through Genetic Code Expansion. ChemBioChem, 2017, 18, 466-469.	2.6	19
32	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
33	Molecular cartography of mutational landscapes in melanomas. EMBO Journal, 2017, 36, 2812-2814.	7.8	1
34	POLB: A new role of DNA polymerase beta in mitochondrial base excision repair. DNA Repair, 2017, 60, A1-A5.	2.8	29
35	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
36	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

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37	Mitochondrial DNA damage induced autophagy cell death and disease. Frontiers in Bioscience - Landmark, 2016, 21, 42-54.	3.0	125
38	Role of XPD in cellular functions: To TFIIH and beyond. DNA Repair, 2016, 44, 136-142.	2.8	55
39	Single-Molecule Imaging Reveals that Rad4 Employs a Dynamic DNA Damage Recognition Process. Molecular Cell, 2016, 64, 376-387.	9.7	76
40	Inhibiting Mitochondrial DNA Ligase IIIÎ± Activates Caspase 1â€“Dependent Apoptosis in Cancer Cells. Cancer Research, 2016, 76, 5431-5441.	0.9	20
41	Clamping down on copy errors. Nature, 2016, 539, 498-499.	27.8	1
42	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
43	Directly interrogating single quantum dot labelled UvrA2 molecules on DNA tightropes using an optically trapped nanoprobe. Scientific Reports, 2015, 5, 18486.	3.3	15
44	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
45	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
46	Kinetic gating mechanism of DNA damage recognition by Rad4/XPC. Nature Communications, 2015, 6, 5849.	12.8	78
47	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
48	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
49	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
50	Overexpression of Mitochondrial Sirtuins Alters Glycolysis and Mitochondrial Function in HEK293 Cells. PLoS ONE, 2014, 9, e106028.	2.5	45
51	High Mobility Group Box 1 (HMGB1) Phenotypic Role Revealed with Stress. Molecular Medicine, 2014, 20, 359-362.	4.4	37
52	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
53	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
54	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

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55	ARTD1/PARP1 Negatively Regulates Glycolysis by Inhibiting Hexokinase 1 Independent of NAD + Depletion. Cell Reports, 2014, 8, 1819-1831.	6.4	169
56	Investigation of bacterial nucleotide excision repair using single-molecule techniques. DNA Repair, 2014, 20, 41-48.	2.8	17
57	Single molecule techniques in DNA repair: A primer. DNA Repair, 2014, 20, 2-13.	2.8	9
58	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
59	Mitochondrial DNA damage: Molecular marker of vulnerable nigral neurons in Parkinson's disease. Neurobiology of Disease, 2014, 70, 214-223.	4.4	155
60	TAp73 promotes cell survival upon genotoxic stress by inhibiting p53 activity. Oncotarget, 2014, 5, 8107-8122.	1.8	27
61	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
62	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
63	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
64	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
65	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
66	Mitochondrial DNA damage in vascular endothelial cells exposed to shear stress. FASEB Journal, 2009, 23, .	0.5	0
67	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
68	Role of mitochondrial DNA in toxic responses to oxidative stress. DNA Repair, 2006, 5, 145-152.	2.8	372
69	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
70	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
71	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
72	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

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73	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
74	UvrABC nuclease complex repairs thymine glycol, an oxidative DNA base damage. Mutation Research DNA Repair, 1990, 235, 147-156.	3.7	102