Aaron A Goodarzi

List of Publications by Year
in descending order

43 papers	4,790 citations	159585 30 h-index	315739 38 g-index
43 all docs	43 docs citations	43 times ranked	5253 citing authors

#	Article	IF	Citations
1	ATM Signaling Facilitates Repair of DNA Double-Strand Breaks Associated with Heterochromatin. Molecular Cell, 2008, 31, 167-177.	9.7	777
2	Î³H2AX foci analysis for monitoring DNA double-strand break repair: Strengths, limitations and optimization. Cell Cycle, 2010, 9, 662-669.	2.6	545
3	ATM and Artemis promote homologous recombination of radiation-induced DNA double-strand breaks in G2. EMBO Journal, 2009, 28, 3413-3427.	7.8	457
4	53BP1-dependent robust localized KAP-1 phosphorylation is essential for heterochromatic DNA double-strand break repair. Nature Cell Biology, 2010, 12, 177-184.	10.3	289
5	DNA-PK autophosphorylation facilitates Artemis endonuclease activity. EMBO Journal, 2006, 25, 3880-3889.	7.8	281
6	The influence of heterochromatin on DNA double strand break repair: Getting the strong, silent type to relax. DNA Repair, 2010, 9, 1273-1282.	2.8	269
7	KAP-1 phosphorylation regulates CHD3 nucleosome remodeling during the DNA double-strand break response. Nature Structural and Molecular Biology, 2011, 18, 831-839.	8.2	205
8	The Repair and Signaling Responses to DNA Double-Strand Breaks. Advances in Genetics, 2013, 82, 1-45.	1.8	186
9	Identification of in vitro and in vivo phosphorylation sites in the catalytic subunit of the DNA-dependent protein kinase. Biochemical Journal, 2002, 368, 243-251.	3.7	173
10	The impact of heterochromatin on DSB repair. Biochemical Society Transactions, 2009, 37, 569-576.	3.4	138
11	53BP1 promotes ATM activity through direct interactions with the MRN complex. EMBO Journal, 2010, 29, 574-585.	7.8	105
12	XLF-Cernunnos promotes DNA ligase IVâ€“XRCC4 re-adenylation following ligation. Nucleic Acids Research, 2009, 37, 482-492.	14.5	98
13	Role of ATM and the Damage Response Mediator Proteins 53BP1 and MDC1 in the Maintenance of G₂/M Checkpoint Arrest. Molecular and Cellular Biology, 2010, 30, 3371-3383.	2.3	97
14	Phosphoproteomic analysis reveals that PP4 dephosphorylates KAP-1 impacting the DNA damage response. EMBO Journal, 2012, 31, 2403-2415.	7.8	96
15	The Heterochromatic Barrier to DNA Double Strand Break Repair: How to Get the Entry Visa. International Journal of Molecular Sciences, 2012, 13, 11844-11860.	4.1	92
16	53BP1-mediated DNA double strand break repair: Insert bad pun here. DNA Repair, 2011, 10, 1071-1076.	2.8	83
17	Radon exposure is rising steadily within the modern North American residential environment, and is increasingly uniform across seasons. Scientific Reports, 2019, 9, 18472.	3.3	80
18	Irradiation induced foci (IRIF) as a biomarker for radiosensitivity. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2012, 736, 39-47.	1.0	74

#	Article	IF	Citations
19	Opposing roles for 53BP1 during homologous recombination. Nucleic Acids Research, 2013, 41, 9719-9731.	14.5	74
20	Biochemical characterization of the ataxia-telangiectasia mutated (ATM) protein from human cells. DNA Repair, 2004, 3, 753-767.	2.8	72
21	Opposing ISWI- and CHD-class chromatin remodeling activities orchestrate heterochromatic DNA repair. Journal of Cell Biology, 2014, 207, 717-733.	5.2	65
22	CHD chromatin remodelling enzymes and the DNA damage response. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2013, 750, 31-44.	1.0	54
23	The repair of environmentally relevant DNA double strand breaks caused by high linear energy transfer irradiation â€“ No simple task. DNA Repair, 2014, 17, 64-73.	2.8	52
24	The role of ATM and ATR in DNA damage-induced cell cycle control. Progress in Cell Cycle Research, 2003, 5, 393-411.	0.9	51
25	ATM-dependent pathways of chromatin remodelling and oxidative DNA damage responses. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160283.	4.0	48
26	The CHD6 chromatin remodeler is an oxidative DNA damage response factor. Nature Communications, 2019, 10, 241.	12.8	45
27	Comprehensive survey of household radon gas levels and risk factors in southern Alberta. CMAJ Open, 2017, 5, E255-E264.	2.4	42
28	DNA double strand break responses and chromatin alterations within the aging cell. Experimental Cell Research, 2014, 329, 42-52.	2.6	38
29	Genomics and Epigenetics of Malignant Mesothelioma. High-Throughput, 2018, 7, 20.	4.4	37
30	Analysis of Human Syndromes with Disordered Chromatin Reveals the Impact of Heterochromatin on the Efficacy of ATM-Dependent G₂/M Checkpoint Arrest. Molecular and Cellular Biology, 2011, 31, 4022-4035.	2.3	32
31	SCAI promotes DNA double-strand break repair in distinct chromosomal contexts. Nature Cell Biology, 2016, 18, 1357-1366.	10.3	32
32	Rising Canadian and falling Swedish radon gas exposure as a consequence of 20th to 21st century residential build practices. Scientific Reports, 2021, 11, 17551.	3.3	20
33	Younger North Americans are exposed to more radon gas due to occupancy biases within the residential built environment. Scientific Reports, 2021, 11, 6724.	3.3	17
34	The efficacy of public health information for encouraging radon gas awareness and testing varies by audience age, sex and profession. Scientific Reports, 2021, 11, 11906.	3.3	17
35	A reflection on research ethics and citizen science. Research Ethics, 2019, 15, 1-10.	1.7	13
36	A high-throughput alpha particle irradiation system for monitoring DNA damage repair, genome instability and screening in human cell and yeast model systems. Nucleic Acids Research, 2020, 48, e111-e111.	14.5	13

#	Article	IF	Citations
37	Chromatin and the Cellular Response to Particle Radiation-Induced Oxidative and Clustered DNA Damage. Frontiers in Cell and Developmental Biology, 0, 10, .	3.7	10
38	Modern sources of environmental ionizing radiation exposure and associated health consequences. , 2021, , 603-619.		5
39	Analyzing Heterochromatic DNA Double Strand Break (DSB) Repair in Response to Ionizing Radiation. Methods in Molecular Biology, 2017, 1599, 303-315.	0.9	4
40	Utilizing Protein Phosphatase Inhibitors to Define PP2A as a Regulator of Ataxia-Telangiectasia Mutated. , 2007, 365, 47-60.		2
41	High replication stress and limited Rad51-mediated DNA repair capacity, but not oxidative stress, underlie oligodendrocyte precursor cell radiosensitivity. NAR Cancer, 2022, 4, zcac012.	3.1	2
42	Oncogenetics of Lung Cancer Induced by Environmental Carcinogens. , 0, , .		0
43	Unsprung traps keep PARP inhibitors effective. Nature Cell Biology, 2022, 24, 2-4.	10.3	0