

Benjamin P C Chen

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

3,183
citations

218677

26
h-index

182427

51
g-index

53
all docs

53
docs citations

53
times ranked

4815
citing authors

#	ARTICLE	IF	CITATIONS
1	Autophosphorylation of DNA-PKCS regulates its dynamics at DNA double-strand breaks. <i>Journal of Cell Biology</i> , 2007, 177, 219-229.	5.2	357
2	Cell Cycle Dependence of DNA-dependent Protein Kinase Phosphorylation in Response to DNA Double Strand Breaks. <i>Journal of Biological Chemistry</i> , 2005, 280, 14709-14715.	3.4	291
3	DNA-PK: A dynamic enzyme in a versatile DSB repair pathway. <i>DNA Repair</i> , 2014, 17, 21-29.	2.8	280
4	Ataxia Telangiectasia Mutated (ATM) Is Essential for DNA-PKcs Phosphorylations at the Thr-2609 Cluster upon DNA Double Strand Break. <i>Journal of Biological Chemistry</i> , 2007, 282, 6582-6587.	3.4	257
5	CPS1 maintains pyrimidine pools and DNA synthesis in KRAS/LKB1-mutant lung cancer cells. <i>Nature</i> , 2017, 546, 168-172.	27.8	222
6	Transcriptional elongation requires DNA break-induced signalling. <i>Nature Communications</i> , 2015, 6, 10191.	12.8	173
7	LILRB4 signalling in leukaemia cells mediates T cell suppression and tumour infiltration. <i>Nature</i> , 2018, 562, 605-609.	27.8	172
8	Congenital bone marrow failure in DNA-PKcs mutant mice associated with deficiencies in DNA repair. <i>Journal of Cell Biology</i> , 2011, 193, 295-305.	5.2	115
9	ATR-Dependent Phosphorylation of DNA-Dependent Protein Kinase Catalytic Subunit in Response to UV-Induced Replication Stress. <i>Molecular and Cellular Biology</i> , 2006, 26, 7520-7528.	2.3	114
10	DNA Double-Strand Break Formation upon UV-Induced Replication Stress Activates ATM and DNA-PKcs Kinases. <i>Journal of Molecular Biology</i> , 2009, 385, 800-810.	4.2	109
11	Three-dimensional spheroid culture targeting versatile tissue bioassays using a PDMS-based hanging drop array. <i>Scientific Reports</i> , 2017, 7, 4363.	3.3	85
12	Role of DNA-dependent protein kinase catalytic subunit in cancer development and treatment. <i>Translational Cancer Research</i> , 2012, 1, 22-34.	1.0	82
13	New insights into the roles of ATM and DNA-PKcs in the cellular response to oxidative stress. <i>Cancer Letters</i> , 2012, 327, 103-110.	7.2	74
14	Involvement of DNA-dependent Protein Kinase in Normal Cell Cycle Progression through Mitosis. <i>Journal of Biological Chemistry</i> , 2011, 286, 12796-12802.	3.4	71
15	Acute and Fractionated Exposure to High-LET ⁵⁶ Fe HZE-Particle Radiation Both Result in Similar Long-Term Deficits in Adult Hippocampal Neurogenesis. <i>Radiation Research</i> , 2013, 180, 658-667.	1.5	59
16	Androgen Receptor Variants Mediate DNA Repair after Prostate Cancer Irradiation. <i>Cancer Research</i> , 2017, 77, 4745-4754.	0.9	56
17	Whole-Body Exposure to ²⁸ Si-Radiation Dose-Dependently Disrupts Dentate Gyrus Neurogenesis and Proliferation in the Short Term and New Neuron Survival and Contextual Fear Conditioning in the Long Term. <i>Radiation Research</i> , 2017, 188, 612-631.	1.5	53
18	DNA-PKcs phosphorylates hnRNP-A1 to facilitate the RPA-to-POT1 switch and telomere capping after replication. <i>Nucleic Acids Research</i> , 2015, 43, 5971-5983.	14.5	48

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19	The vanillin derivative VND3207 protects intestine against radiation injury by modulating p53/NOXA signaling pathway and restoring the balance of gut microbiota. <i>Free Radical Biology and Medicine</i> , 2019, 145, 223-236.	2.9	46
20	Personalized Ultrafractionated Stereotactic Adaptive Radiotherapy (PULSAR) in Preclinical Models Enhances Single-Agent Immune Checkpoint Blockade. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 1306-1316.	0.8	41
21	FANCD2 and REV1 cooperate in the protection of nascent DNA strands in response to replication stress. <i>Nucleic Acids Research</i> , 2015, 43, 8325-8339.	14.5	38
22	RUVBL1/RUVBL2 ATPase Activity Drives PAQosome Maturation, DNA Replication and Radioresistance in Lung Cancer. <i>Cell Chemical Biology</i> , 2020, 27, 105-121.e14.	5.2	38
23	Multi-domain cognitive assessment of male mice shows space radiation is not harmful to high-level cognition and actually improves pattern separation. <i>Scientific Reports</i> , 2020, 10, 2737.	3.3	35
24	⁵⁶ Fe particle exposure results in a long-lasting increase in a cellular index of genomic instability and transiently suppresses adult hippocampal neurogenesis in vivo. <i>Life Sciences in Space Research</i> , 2014, 2, 70-79.	2.3	33
25	Activation of sphingosine kinase by lipopolysaccharide promotes prostate cancer cell invasion and metastasis via SphK1/S1PR4/matriptase. <i>Oncogene</i> , 2019, 38, 5580-5598.	5.9	33
26	DNA-dependent protein kinase in telomere maintenance and protection. <i>Cellular and Molecular Biology Letters</i> , 2020, 25, 2.	7.0	30
27	Lysophosphatidic acid receptor LPA ₃ prevents oxidative stress and cellular senescence in Hutchinson Gilford progeria syndrome. <i>Aging Cell</i> , 2020, 19, e13064.	6.7	27
28	Differential Role of DNA-PKcs Phosphorylations and Kinase Activity in Radiosensitivity and Chromosomal Instability. <i>Radiation Research</i> , 2011, 175, 83-89.	1.5	26
29	The catalytic subunit of DNA-dependent protein kinase is required for cellular resistance to oxidative stress independent of DNA double-strand break repair. <i>Free Radical Biology and Medicine</i> , 2014, 76, 278-285.	2.9	22
30	PIDD mediates the association of DNA-PKcs and ATR at stalled replication forks to facilitate the ATR signaling pathway. <i>Nucleic Acids Research</i> , 2018, 46, 1847-1859.	14.5	19
31	Downregulation of Human DAB2IP Gene Expression in Renal Cell Carcinoma Results in Resistance to Ionizing Radiation. <i>Clinical Cancer Research</i> , 2019, 25, 4542-4551.	7.0	19
32	Tumor suppressor protein DAB2IP participates in chromosomal stability maintenance through activating spindle assembly checkpoint and stabilizing kinetochore-microtubule attachments. <i>Nucleic Acids Research</i> , 2016, 44, 8842-8854.	14.5	18
33	Differential Radiosensitivity Phenotypes of DNA-PKcs Mutations Affecting NHEJ and HRR Systems following Irradiation with Gamma-Rays or Very Low Fluences of Alpha Particles. <i>PLoS ONE</i> , 2014, 9, e93579.	2.5	13
34	The Catalytic Subunit of DNA-Dependent Protein Kinase Coordinates with Polo-Like Kinase 1 to Facilitate Mitotic Entry. <i>Neoplasia</i> , 2015, 17, 329-338.	5.3	13
35	ParaStamp and Its Applications to Cell Patterning, Drug Synergy Screening, and Rewritable Devices for Droplet Storage. <i>Advanced Biology</i> , 2017, 1, 1700048.	3.0	13
36	Whole-Body ¹² C Irradiation Transiently Decreases Mouse Hippocampal Dentate Gyrus Proliferation and Immature Neuron Number, but Does Not Change New Neuron Survival Rate. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3078.	4.1	13

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37	Vanillin derivative VND3207 activates DNA-PKcs conferring protection against radiation-induced intestinal epithelial cells injury in vitro and in vivo. <i>Toxicology and Applied Pharmacology</i> , 2020, 387, 114855.	2.8	13
38	The role of extracellular vesicles in prostate cancer with clinical applications. <i>Endocrine-Related Cancer</i> , 2020, 27, R133-R144.	3.1	12
39	Facilitating tumor spheroid-based bioassays and <i>in vitro</i> blood vessel modeling <i>via</i> bioinspired self-formation microstructure devices. <i>Lab on A Chip</i> , 2018, 18, 2453-2465.	6.0	9
40	BRCA1-BARD1 regulates transcription through modulating topoisomerase II ² . <i>Open Biology</i> , 2021, 11, 210221.	3.6	9
41	Coordination of the Ser2056 and Thr2609 Clusters of DNA-PKcs in Regulating Gamma Rays and Extremely Low Fluencies of Alpha-Particle Irradiation to G0/G1 Phase Cells. <i>Radiation Research</i> , 2017, 187, 259.	1.5	7
42	A nanodroplet cell processing platform facilitating drug synergy evaluations for anti-cancer treatments. <i>Scientific Reports</i> , 2019, 9, 10120.	3.3	7
43	Mitotic phosphorylation of tumor suppressor DAB2IP maintains spindle assembly checkpoint and chromosomal stability through activating PLK1-Mps1 signal pathway and stabilizing mitotic checkpoint complex. <i>Oncogene</i> , 2022, 41, 489-501.	5.9	7
44	Lysophosphatidic acid receptors 2 and 3 regulate erythropoiesis at different hematopoietic stages. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158818.	2.4	4
45	Imaging of Fluorescently Tagged ATM Kinase at the Sites of DNA Double Strand Breaks. <i>Methods in Molecular Biology</i> , 2017, 1599, 277-285.	0.9	3
46	Lysophosphatidic Acid Receptor 3 Promotes Mitochondrial Homeostasis against Oxidative Stress: Potential Therapeutic Approaches for Hutchinsonâ€™Gilford Progeria Syndrome. <i>Antioxidants</i> , 2022, 11, 351.	5.1	3
47	Protein Phosphatase 2Aâ€™Dependent Mitotic hnRNPA1 Dephosphorylation and TERRA Formation Facilitate Telomere Capping. <i>Molecular Cancer Research</i> , 2022, 20, 583-595.	3.4	3
48	Functional analysis of tanshinone IIA that blocks the redox function of human apurinic/aprimidinic endonuclease 1/redox factor-1. <i>Drug Design, Development and Therapy</i> , 2014, 8, 2147.	4.3	2
49	DNA-PKcs inhibition impairs HDAC6-mediated HSP90 chaperone function on Aurora A and enhances HDACs inhibitor-induced cell killing by increasing mitotic aberrant spindle assembly. <i>Cell Cycle</i> , 2021, 20, 211-224.	2.6	1
50	BRCA1â€™BARD1 complex regulates the stability of topoisomerase II ² in transcription of human immediate early genes. <i>FASEB Journal</i> , 2021, 35, .	0.5	0