Omid Azimzadeh

List of Publications by Year
in descending order

66	2,136	201674	233421
papers	citations	27 h-index	45 g-index

66	66	66	2899
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nucleic acids from long-term preserved FFPE tissues are suitable for downstream analyses. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2012, 460, 131-140.	2.8	153
2	Radiationâ€“Induced Signaling Results in Mitochondrial Impairment in Mouse Heart at 4 Weeks after Exposure to X-Rays. PLoS ONE, 2011, 6, e27811.	2.5	134
3	Ionizing radiation biomarkers in epidemiological studies â€“ An update. Mutation Research - Reviews in Mutation Research, 2017, 771, 59-84.	5.5	118
4	Quantitative proteomic analysis reveals induction of premature senescence in human umbilical vein endothelial cells exposed to chronic low-dose rate gamma radiation. Proteomics, 2013, 13, 1096-1107.	2.2	102
5	Radiation alters the cargo of exosomes released from squamous head and neck cancer cells to promote migration of recipient cells. Scientific Reports, 2017, 7, 12423.	3.3	92
6	Rapid proteomic remodeling of cardiac tissue caused by total body ionizing radiation. Proteomics, 2011, 11, 3299-3311.	2.2	87
7	Integrative Proteomics and Targeted Transcriptomics Analyses in Cardiac Endothelial Cells Unravel Mechanisms of Long-Term Radiation-Induced Vascular Dysfunction. Journal of Proteome Research, 2015, 14, 1203-1219.	3.7	86
8	Formalin-Fixed Paraffin-Embedded (FFPE) Proteome Analysis Using Gel-Free and Gel-Based Proteomics. Journal of Proteome Research, 2010, 9, 4710-4720.	3.7	82
9	The PI3K/Akt/mTOR Pathway Is Implicated in the Premature Senescence of Primary Human Endothelial Cells Exposed to Chronic Radiation. PLoS ONE, 2013, 8, e70024.	2.5	82
10	Ionising radiation induces persistent alterations in the cardiac mitochondrial function of C57BL/6 mice 40weeks after local heart exposure. Radiotherapy and Oncology, 2013, 106, 404-410.	0.6	65
11	Quantitative changes in the protein and miRNA cargo of plasma exosome-like vesicles after exposure to ionizing radiation. International Journal of Radiation Biology, 2017, 93, 569-580.	1.8	63
12	PPAR Alpha: A Novel Radiation Target in Locally Exposed Mus musculus Heart Revealed by Quantitative Proteomics. Journal of Proteome Research, 2013, 12, 2700-2714.	3.7	56
13	A dose-dependent perturbation in cardiac energy metabolism is linked to radiation-induced ischemic heart disease in Mayak nuclear workers. Oncotarget, 2017, 8, 9067-9078.	1.8	50
14	Low-dose irradiation causes rapid alterations to the proteome of the human endothelial cell line EA.hy926. Radiation and Environmental Biophysics, 2011, 50, 155-166.	1.4	49
15	Age-related effects of X-ray irradiation on mouse hippocampus. Oncotarget, 2016, 7, 28040-28058.	1.8	44
16	Long non-coding RNA PARTICLE bridges histone and DNA methylation. Scientific Reports, 2017, 7, 1790.	3.3	43
17	Long-term effects of ionising radiation on the brain: cause for concern?. Radiation and Environmental Biophysics, 2013, 52, 5-16.	1.4	42
18	Late proliferating and inflammatory effects on murine microvascular heart and lung endothelial cells after irradiation. Radiotherapy and Oncology, 2015, 117, 376-381.	0.6	42

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19	Proteomic analysis by SILAC and 2D-DIGE reveals radiation-induced endothelial response: Four key pathways. Journal of Proteomics, 2012, 75, 2319-2330.	2.4	41
20	Role of TGF Beta and PPAR Alpha Signaling Pathways in Radiation Response of Locally Exposed Heart: Integrated Global Transcriptomics and Proteomics Analysis. Journal of Proteome Research, 2017, 16, 307-318.	3.7	39
21	Comparison of methods to isolate proteins from extracellular vesicles for mass spectrometry-based proteomic analyses. Analytical Biochemistry, 2019, 584, 113390.	2.4	39
22	Label-free protein profiling of formalin-fixed paraffin-embedded (FFPE) heart tissue reveals immediate mitochondrial impairment after ionising radiation. Journal of Proteomics, 2012, 75, 2384-2395.	2.4	35
23	Integrative proteomic and microRNA analysis of primary human coronary artery endothelial cells exposed to low-dose gamma radiation. Radiation and Environmental Biophysics, 2013, 52, 87-98.	1.4	34
24	Total Body Exposure to Low-Dose Ionizing Radiation Induces Long-Term Alterations to the Liver Proteome of Neonatally Exposed Mice. Journal of Proteome Research, 2015, 14, 366-373.	3.7	33
25	Plasmodium falciparum PfA-M1 aminopeptidase is trafficked via the parasitophorous vacuole and marginally delivered to the food vacuole. Malaria Journal, 2010, 9, 189.	2.3	31
26	Lifetime study in mice after acute low-dose ionizing radiation: a multifactorial study with special focus on cataract risk. Radiation and Environmental Biophysics, 2018, 57, 99-113.	1.4	30
27	PARTICLE triplexes cluster in the tumor suppressor WWOX and may extend throughout the human genome. Scientific Reports, 2017, 7, 7163.	3.3	27
28	Hyperacetylation of Cardiac Mitochondrial Proteins Is Associated with Metabolic Impairment and Sirtuin Downregulation after Chronic Total Body Irradiation of ApoE -/- Mice. International Journal of Molecular Sciences, 2019, 20, 5239.	4.1	27
29	Long-term effects of acute low-dose ionizing radiation on the neonatal mouse heart: a proteomic study. Radiation and Environmental Biophysics, 2013, 52, 451-461.	1.4	26
30	Proteomics in radiation research: present status and future perspectives. Radiation and Environmental Biophysics, 2014, 53, 31-38.	1.4	26
31	Quantitative and integrated proteome and microRNA analysis of endothelial replicative senescence. Journal of Proteomics, 2015, 126, 12-23.	2.4	25
32	Expert consultation is vital for adverse outcome pathway development: a case example of cardiovascular effects of ionizing radiation. International Journal of Radiation Biology, 2021, 97, 1-10.	1.8	20
33	Radiation-Induced Endothelial Inflammation Is Transferred via the Secretome to Recipient Cells in a STAT-Mediated Process. Journal of Proteome Research, 2017, 16, 3903-3916.	3.7	18
34	Differential Impact of Single-Dose Fe Ion and X-Ray Irradiation on Endothelial Cell Transcriptomic and Proteomic Responses. Frontiers in Pharmacology, 2017, 8, 570.	3.5	18
35	Radiation Exposure of Peripheral Mononuclear Blood Cells Alters the Composition and Function of Secreted Extracellular Vesicles. International Journal of Molecular Sciences, 2020, 21, 2336.	4.1	18
36	PPARÎ± Is Necessary for Radiation-Induced Activation of Noncanonical TGFÎ² Signaling in the Heart. Journal of Proteome Research, 2018, 17, 1677-1689.	3.7	17

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37	Chronic Occupational Exposure to Ionizing Radiation Induces Alterations in the Structure and Metabolism of the Heart: A Proteomic Analysis of Human Formalin-Fixed Paraffin-Embedded (FFPE) Cardiac Tissue. International Journal of Molecular Sciences, 2020, 21, 6832.	4.1	17
38	Targeting Cancer Metabolism Breaks Radioresistance by Impairing the Stress Response. Cancers, 2021, 13, 3762.	3.7	17
39	Proteome analysis of irradiated endothelial cells reveals persistent alteration in protein degradation and the RhoGDI and NO signalling pathways. International Journal of Radiation Biology, 2017, 93, 920-928.	1.8	16
40	CREB Signaling Mediates Dose-Dependent Radiation Response in the Murine Hippocampus Two Years after Total Body Exposure. Journal of Proteome Research, 2020, 19, 337-345.	3.7	16
41	Unique proteomic signature for radiation sensitive patients; a comparative study between normo-sensitive and radiation sensitive breast cancer patients. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2015, 776, 128-135.	1.0	14
42	Radiation Response of Human Cardiac Endothelial Cells Reveals a Central Role of the cGAS-STING Pathway in the Development of Inflammation. Proteomes, 2020, 8, 30.	3.5	13
43	Oncogenic Linear Collagen VI of Invasive Breast Cancer Is Induced by CCL5. Journal of Clinical Medicine, 2020, 9, 991.	2.4	13
44	In-Utero Low-Dose Irradiation Leads to Persistent Alterations in the Mouse Heart Proteome. PLoS ONE, 2016, 11, e0156952.	2.5	13
45	Low-dose radiation differentially regulates protein acetylation and histone deacetylase expression in human coronary artery endothelial cells. International Journal of Radiation Biology, 2017, 93, 156-164.	1.8	12
46	Proteomics landscape of radiation-induced cardiovascular disease: somewhere over the paradigm. Expert Review of Proteomics, 2017, 14, 987-996.	3.0	11
47	Integrative multiomics study for validation of mechanisms in radiation-induced ischemic heart disease in Mayak workers. PLoS ONE, 2018, 13, e0209626.	2.5	11
48	Proteomics approaches to investigate cancer radiotherapy outcome: slow train coming. Translational Cancer Research, 2017, 6, S779-S788.	1.0	11
49	Impact of DNA repair and reactive oxygen species levels on radioresistance in pancreatic cancer. Radiotherapy and Oncology, 2021, 159, 265-276.	0.6	9
50	Nuclear Fragility in Radiation-Induced Senescence: Blebs and Tubes Visualized by 3D Electron Microscopy. Cells, 2022, 11, 273.	4.1	9
51	Combined Treatment with Low-Dose Ionizing Radiation and Ketamine Induces Adverse Changes in CA1 Neuronal Structure in Male Murine Hippocampi. International Journal of Molecular Sciences, 2019, 20, 6103.	4.1	7
52	A Human 3D Cardiomyocyte Risk Model to Study the Cardiotoxic Influence of X-rays and Other Noxae in Adults. Cells, 2021, 10, 2608.	4.1	6
53	Omics in Radiation Biology: Surprised but Not Disappointed. Radiation, 2022, 2, 124-129.	1.4	6
54	Brain Radiation Information Data Exchange (BRIDE): integration of experimental data from low-dose ionising radiation research for pathway discovery. BMC Bioinformatics, 2016, 17, 212.	2.6	5

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55	Data independent acquisition mass spectrometry of irradiated mouse lung endothelial cells reveals a STAT-associated inflammatory response. International Journal of Radiation Biology, 2020, 96, 642-650.	1.8	5
56	Out-of-Field Hippocampus from Partial-Body Irradiated Mice Displays Changes in Multi-Omics Profile and Defects in Neurogenesis. International Journal of Molecular Sciences, 2021, 22, 4290.	4.1	5
57	Qualitative and Quantitative Proteomic Analysis of Formalin-Fixed Paraffin-Embedded (FFPE) Tissue. Methods in Molecular Biology, 2015, 1295, 109-115.	0.9	5
58	Advanced Omics and Radiobiological Tissue Archives: The Future in the Past. Applied Sciences (Switzerland), 2021, 11, 11108.	2.5	5
59	Activation of PPARÎ± by Fenofibrate Attenuates the Effect of Local Heart High Dose Irradiation on the Mouse Cardiac Proteome. Biomedicines, 2021, 9, 1845.	3.2	5
60	Data-Independent Acquisition Proteomics Reveals Long-Term Biomarkers in the Serum of C57BL/6J Mice Following Local High-Dose Heart Irradiation. Frontiers in Public Health, 2021, 9, 678856.	2.7	4
61	A systems radiation biology approach to unravel the role of chronic low-dose-rate gamma-irradiation in inducing premature senescence in endothelial cells. PLoS ONE, 2022, 17, e0265281.	2.5	4
62	Quantitative Proteomic Analysis Using Formalin-Fixed, Paraffin-Embedded (FFPE) Human Cardiac Tissue. Methods in Molecular Biology, 2021, 2261, 525-533.	0.9	2
63	Proteomic Strategies: SILAC and 2D-DIGEâ€”Powerful Tool to Investigate Cellular Alterations. Methods in Molecular Biology, 2014, 1101, 369-392.	0.9	1
64	Mathematical Modelling and Effect Size Analysis in Support of Searching for the Proteomic Signature of Radiotherapy Toxicity. , 2019, , .		0
65	A Five-Year report on the conception and establishment of the MSc Radiation Biology at the Technical University of Munich. International Journal of Radiation Biology, 2021, 97, 256-264.	1.8	0
66	Abstract 5849: Exosomes promote survival and migration in squamous head and neck cancer cells after ionizing radiation: Evidence for a bystander effect. , 2017, , .		0