Elizabeth A Ainsbury

List of Publications by Year
in descending order

75 papers	1,692 citations	279701 23 h-index	330025 37 g-index
76 all docs	76 docs citations	76 times ranked	1242 citing authors

#	Article	IF	Citations
1	DOSE ESTIMATION SOFTWARE FOR RADIATION BIODOSIMETRY. Health Physics, 2010, 98, 290-295.	0.3	112
2	Ionizing radiation induced cataracts: Recent biological and mechanistic developments and perspectives for future research. Mutation Research - Reviews in Mutation Research, 2016, 770, 238-261.	2.4	105
3	FDXR is a biomarker of radiation exposure in vivo. Scientific Reports, 2018, 8, 684.	1.6	89
4	RENEB intercomparisons applying the conventional Dicentric Chromosome Assay (DCA). International Journal of Radiation Biology, 2017, 93, 20-29.	1.0	77
5	Radiation-induced cataracts: the Health Protection Agency's response to the ICRP statement on tissue reactions and recommendation on the dose limit for the eye lens. Journal of Radiological Protection, 2012, 32, 479-488.	0.6	73
6	Manual versus automated γ-H2AX foci analysis across five European laboratories: Can this assay be used for rapid biodosimetry in a large scale radiation accident?. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2013, 756, 170-173.	0.9	60
7	Guidance on radiation dose limits for the lens of the eye: overview of the recommendations in NCRP Commentary No. 26. International Journal of Radiation Biology, 2017, 93, 1015-1023.	1.0	60
8	RENEB – Running the European Network of biological dosimetry and physical retrospective dosimetry. International Journal of Radiation Biology, 2017, 93, 2-14.	1.0	52
9	Integration of new biological and physical retrospective dosimetry methods into EU emergency response plans – joint RENEB and EURADOS inter-laboratory comparisons. International Journal of Radiation Biology, 2017, 93, 99-109.	1.0	48
10	Operational guidance for radiation emergency response organisations in Europe for using biodosimetric tools developed in EU MULTIBIODOSE project. Radiation Protection Dosimetry, 2015, 164, 165-169.	0.4	46
11	Inter- and intra-laboratory comparison of a multibiodosimetric approach to triage in a simulated, large scale radiation emergency. International Journal of Radiation Biology, 2014, 90, 193-202.	1.0	44
12	Nonlinear ionizing radiation-induced changes in eye lens cell proliferation, cyclin D1 expression and lens shape. Open Biology, 2015, 5, 150011.	1.5	42
13	Limitations Associated with Analysis of Cytogenetic Data for Biological Dosimetry. Radiation Research, 2010, 174, 403.	0.7	40
14	Radiation protection of the eye lens in medical workers—basis and impact of the ICRP recommendations. British Journal of Radiology, 2016, 89, 20151034.	1.0	38
15	Increased apoptosis and DNA double-strand breaks in the embryonic mouse brain in response to very low-dose X-rays but not 50 Hz magnetic fields. Journal of the Royal Society Interface, 2014, 11, 20140783.	1.5	35
16	Zero-inflated regression models for radiation-induced chromosome aberration data: A comparative study. Biometrical Journal, 2016, 58, 259-279.	0.6	34
17	The first in vivo multiparametric comparison of different radiation exposure biomarkers in human blood. PLoS ONE, 2018, 13, e0193412.	1.1	34
18	Etiology of posterior subcapsular cataracts based on a review of risk factors including aging, diabetes, and ionizing radiation. International Journal of Radiation Biology, 2020, 96, 1339-1361.	1.0	34

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19	UNCERTAINTY ON RADIATION DOSES ESTIMATED BY BIOLOGICAL AND RETROSPECTIVE PHYSICAL METHODS. Radiation Protection Dosimetry, 2018, 178, 382-404.	0.4	33
20	Inverse dose-rate effect of ionising radiation on residual 53BP1 foci in the eye lens. Scientific Reports, 2019, 9, 10418.	1.6	31
21	The RENEB operational basis: complement of established biodosimetric assays. International Journal of Radiation Biology, 2017, 93, 15-19.	1.0	26
22	Status of NCRP Scientific Committee 1â€¹23 Commentary on Guidance on Radiation Dose Limits for the Lens of the Eye. Health Physics, 2016, 110, 182-184.	0.3	25
23	Radiation-induced lens opacities: Epidemiological, clinical and experimental evidence, methodological issues, research gaps and strategy. Environment International, 2021, 146, 106213.	4.8	24
24	Influence of Confounding Factors on Radiation Dose Estimation Using In Vivo Validated Transcriptional Biomarkers. Health Physics, 2018, 115, 90-101.	0.3	23
25	Investigation of the influence of calibration practices on cytogenetic laboratory performance for dose estimation. International Journal of Radiation Biology, 2017, 93, 118-126.	1.0	22
26	A semi-automated micronucleus-centromere assay to assess low-dose radiation exposure in human lymphocytes. International Journal of Radiation Biology, 2011, 87, 923-931.	1.0	20
27	Uncertainty of fast biological radiation dose assessment for emergency response scenarios. International Journal of Radiation Biology, 2017, 93, 127-135.	1.0	20
28	Review of Bayesian statistical analysis methods for cytogenetic radiation biodosimetry, with a practical example. Radiation Protection Dosimetry, 2014, 162, 185-196.	0.4	19
29	What radiation dose does the FISH translocation assay measure in cases of incorporated radionuclides for the Southern Urals populations?. Radiation Protection Dosimetry, 2014, 159, 26-33.	0.4	18
30	A new inverse regression model applied to radiation biodosimetry. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140588.	1.0	18
31	A NEW BAYESIAN MODEL APPLIED TO CYTOGENETIC PARTIAL BODY IRRADIATION ESTIMATION. Radiation Protection Dosimetry, 2016, 168, ncv356.	0.4	17
32	Enhanced radiation dose and DNA damage associated with iodinated contrast media in diagnostic X-ray imaging. British Journal of Radiology, 2017, 90, 20170028.	1.0	17
33	Patient radiation dose from x-ray guided endovascular aneurysm repair: a Monte Carlo approach using voxel phantoms and detailed exposure information. Journal of Radiological Protection, 2020, 40, 704-726.	0.6	17
34	RENEB/EURADOS field exercise 2019: robust dose estimation under outdoor conditions based on the dicentric chromosome assay. International Journal of Radiation Biology, 2021, 97, 1181-1198.	1.0	17
35	Web based scoring is useful for validation and harmonisation of scoring criteria within RENEB. International Journal of Radiation Biology, 2017, 93, 110-117.	1.0	16
36	FISH analysis of translocations induced by chronic exposure to Sr radioisotopes: second set of analysis of the Techa River Cohort. Radiation Protection Dosimetry, 2014, 159, 34-37.	0.4	15

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37	CytoBayesJ: Software tools for Bayesian analysis of cytogenetic radiation dosimetry data. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2013, 756, 184-191.	0.9	14
38	A statistical framework for radiation dose estimation with uncertainty quantification from the Î³-H2AX assay. PLoS ONE, 2018, 13, e0207464.	1.1	14
39	Estimating partial-body ionizing radiation exposure by automated cytogenetic biodosimetry. International Journal of Radiation Biology, 2020, 96, 1492-1503.	1.0	14
40	Xrcc2 Modulates Spontaneous and Radiation-Induced Tumorigenesis in Apcmin/+ Mice. Molecular Cancer Research, 2010, 8, 1227-1233.	1.5	12
41	radir package: an R implementation for cytogenetic biodosimetry dose estimation. Journal of Radiological Protection, 2015, 35, 557-569.	0.6	12
42	Radiation exposures in pregnancy, health effects and risks to the embryo/foetusâ€"information to inform the medical management of the pregnant patient. Journal of Radiological Protection, 2021, 41, S522-S539.	0.6	12
43	Intestinal tumours induced in Apc$^{Min/+}$ mice by X-rays and neutrons. International Journal of Radiation Biology, 2011, 87, 385-399.	1.0	11
44	AN EXACT GOODNESS-OF-FIT TEST BASED ON THE OCCUPANCY PROBLEMS TO STUDY ZERO-INFLATION AND ZERO-DEFLATION IN BIOLOGICAL DOSIMETRY DATA. Radiation Protection Dosimetry, 2018, 179, 317-326.	0.4	11
45	Biodosimetric tools for a fast triage of people accidentally exposed to ionising radiation. Statistical and computational aspects. Annali Dell'Istituto Superiore Di Sanita, 2009, 45, 307-12.	0.2	11
46	A comparison of six statistical distributions for analysis of chromosome aberration data for radiation biodosimetry. Radiation Protection Dosimetry, 2013, 155, 253-267.	0.4	10
47	Radiation-induced Changes in Levels of Selected Proteins in Peripheral Blood Serum of Breast Cancer Patients as a Potential Triage Biodosimeter for Large-scale Radiological Emergencies. Health Physics, 2014, 107, 555-563.	0.3	10
48	RENEB accident simulation exercise. International Journal of Radiation Biology, 2017, 93, 75-80.	1.0	10
49	Multibiodose Radiation Emergency Triage Categorization Software. Health Physics, 2014, 107, 83-89.	0.3	9
50	The rate of X-ray-induced DNA double-strand break repair in the embryonic mouse brain is unaffected by exposure to 50 Hz magnetic fields. International Journal of Radiation Biology, 2015, 91, 495-499.	1.0	9
51	A New Cytogenetic Biodosimetry Image Repository for the Dicentric Assay. Radiation Protection Dosimetry, 2016, 172, 192-200.	0.4	9
52	The impact of iodinated contrast media on intravascular and extravascular absorbed doses in X-ray imaging: A microdosimetric analysis. Physica Medica, 2018, 46, 140-147.	0.4	9
53	Dicentric Dose Estimates for Patients Undergoing Radiotherapy in the RTGene Study to Assess Blood Dosimetric Models and the New Bayesian Method for Gradient Exposure. Radiation Research, 2018, 190, 596.	0.7	9
54	The future of biological dosimetry in mass casualty radiation emergency response, personalized radiation risk estimation and space radiation protection. International Journal of Radiation Biology, 2022, 98, 421-427.	1.0	9

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55	Sensitivity and latency of ionising radiation-induced cataract. Experimental Eye Research, 2021, 212, 108772.	1.2	9
56	Verification by the FISH translocation assay of historic doses to Mayak workers from external gamma radiation. Radiation and Environmental Biophysics, 2015, 54, 445-451.	0.6	8
57	Quantities for assessing high doses to the body: a short review of the current status. Journal of Radiological Protection, 2018, 38, 731-742.	0.6	8
58	Scoring rings in the cell fusion-induced premature chromosome condensation (PCC) assay for high dose radiation exposure estimation after gamma-ray exposure. International Journal of Radiation Biology, 2019, 95, 1259-1267.	1.0	8
59	An investigation into the vector ellipticity of extremely low frequency magnetic fields from appliances in UK homes. Physics in Medicine and Biology, 2005, 50, 3197-3209.	1.6	7
60	THE USE OF THE DICENTRIC ASSAY FOR BIOLOGICAL DOSIMETRY FOR RADIATION ACCIDENTS IN BULGARIA. Health Physics, 2010, 98, 252-257.	0.3	7
61	Difficult cases for chromosomal dosimetry: Statistical considerations. Radiation Measurements, 2011, 46, 1004-1008.	0.7	6
62	Quantities for assessing high photon doses to the body: a calculational approach. Journal of Radiological Protection, 2018, 38, 743-762.	0.6	6
63	A Simplified Calyculin A-Induced Premature Chromosome Condensation (PCC) Protocol for the Biodosimetric Analysis of High-Dose Exposure to Gamma Radiation. Radiation Research, 2020, 193, 560.	0.7	6
64	An ionising radiation-induced specific transcriptional signature of inflammation-associated genes in whole blood from radiotherapy patients: a pilot study. Radiation Oncology, 2021, 16, 83.	1.2	5
65	Introduction to the Special LDLensRad Focus Issue. Radiation Research, 2021, 197, .	0.7	5
66	Early Responses to Low-Dose Ionizing Radiation in Cellular Lens Epithelial Models. Radiation Research, 2021, 197, .	0.7	5
67	Radiation Biomarkers in Large Scale Human Health Effects Studies. Journal of Personalized Medicine, 2020, 10, 155.	1.1	4
68	Investigating the impact of long term exposure to chemical agents on the chromosomal radiosensitivity using human lymphoblastoid GM1899A cells. Scientific Reports, 2021, 11, 12616.	1.6	3
69	What if a major radiation incident happened during a pandemic? â€" Considerations of the impact on biodosimetry. International Journal of Radiation Biology, 2022, 98, 825-830.	1.0	3
70	Observations on the relationship between magnetic field characteristics and exposure conditions. Physics in Medicine and Biology, 2006, 51, 6113-6123.	1.6	2
71	A faster and easier biodosimetry method based on calyculin A-induced premature chromosome condensation (PCC) by scoring excess objects. Journal of Radiological Protection, 2020, 40, 892-905.	0.6	2
72	Bayesian Solutions to Biodosimetry Count Data Problems and Supporting Software. Trends in Mathematics, 2017, , 103-107.	0.1	2

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73	Chromosome analysis in a case of a plutonium contaminated wound. Journal of Radiological Protection, 2017, 37, N13-N19.	0.6	0
74	On the Use of Random Effect Models for Radiation Biodosimetry. Trends in Mathematics, 2017, , 89-94.	0.1	0
75	Accidental neutron exposure in a medical setting: a case study. Journal of Radiological Protection, 2020, 40, 1444-1456.	0.6	0