

Andrea Ottolenghi

List of Publications by Year in descending order

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94
papers

2,257
citations

236612

25
h-index

243296

44
g-index

95
all docs

95
docs citations

95
times ranked

2370
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiation pneumonitis after breast cancer irradiation: analysis of the complication probability using the relative seriality model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000, 46, 373-381.	0.4	152
2	Comprehensive track-structure based evaluation of DNA damage by light ions from radiotherapy-relevant energies down to stopping. <i>Scientific Reports</i> , 2017, 7, 45161.	1.6	149
3	Use of the γ -H2AX Assay to Investigate DNA Repair Dynamics Following Multiple Radiation Exposures. <i>PLoS ONE</i> , 2013, 8, e79541.	1.1	143
4	Simulation of DNA fragment distributions after irradiation with photons. <i>Radiation and Environmental Biophysics</i> , 1999, 38, 39-47.	0.6	128
5	Galactic cosmic ray simulation at the NASA Space Radiation Laboratory. <i>Life Sciences in Space Research</i> , 2016, 8, 38-51.	1.2	112
6	Cellular communication and bystander effects: a critical review for modelling low-dose radiation action. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2002, 501, 1-12.	0.4	92
7	First steps towards systems radiation biology studies concerned with DNA and chromosome structure within living cells. <i>Radiation and Environmental Biophysics</i> , 2008, 47, 49-61.	0.6	71
8	Biological mechanisms of normal tissue damage: Importance for the design of NTCP models. <i>Radiotherapy and Oncology</i> , 2012, 105, 79-85.	0.3	67
9	The physics of the FLUKA code: Recent developments. <i>Advances in Space Research</i> , 2007, 40, 1339-1349.	1.2	64
10	The origin of neutron biological effectiveness as a function of energy. <i>Scientific Reports</i> , 2016, 6, 34033.	1.6	62
11	Track structure, radiation quality and initial radiobiological events: Considerations based on the PARTRAC code experience. <i>International Journal of Radiation Biology</i> , 2012, 88, 77-86.	1.0	52
12	Simulation of light ion induced DNA damage patterns. <i>Radiation Protection Dosimetry</i> , 2006, 122, 116-120.	0.4	49
13	A New Standard DNA Damage (SDD) Data Format. <i>Radiation Research</i> , 2018, 191, 76.	0.7	49
14	Progress in low dose health risk research. <i>Mutation Research - Reviews in Mutation Research</i> , 2018, 776, 46-69.	2.4	45
15	Multidisciplinary European Low Dose Initiative (MELODI): strategic research agenda for low dose radiation risk research. <i>Radiation and Environmental Biophysics</i> , 2018, 57, 5-15.	0.6	44
16	Gamma ray-induced bystander effect in tumour glioblastoma cells: a specific study on cell survival, cytokine release and cytokine receptors. <i>Radiation Protection Dosimetry</i> , 2006, 122, 271-274.	0.4	43
17	A Monte Carlo Study of the Radiation Quality Dependence of DNA Fragmentation Spectra. <i>Radiation Research</i> , 2010, 173, 263-271.	0.7	37
18	Experimental and theoretical analysis of cytokine release for the study of radiation-induced bystander effect. <i>International Journal of Radiation Biology</i> , 2009, 85, 690-699.	1.0	36

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19	Heavy-ion effects: from track structure to DNA and chromosome damage. <i>New Journal of Physics</i> , 2008, 10, 075008.	1.2	32
20	DNA Fragmentation Induced in Human Fibroblasts by ⁵⁶ Fe Ions: Experimental Data and Monte Carlo Simulations. <i>Radiation Research</i> , 2009, 171, 438-445.	0.7	32
21	A Model of Chromosome Aberration Induction: Applications to Space Research. <i>Radiation Research</i> , 2005, 164, 567-570.	0.7	31
22	The FLUKA code: an overview. <i>Journal of Physics: Conference Series</i> , 2006, 41, 151-160.	0.3	31
23	A model of chromosome aberration induction and chronic myeloid leukaemia incidence at low doses. <i>Radiation and Environmental Biophysics</i> , 2004, 43, 165-171.	0.6	30
24	Modelling radiation-induced bystander effect and cellular communication. <i>Radiation Protection Dosimetry</i> , 2006, 122, 244-251.	0.4	30
25	Exploring innovative radiation shielding approaches in space: A material and design study for a wearable radiation protection spacesuit. <i>Life Sciences in Space Research</i> , 2017, 15, 69-78.	1.2	29
26	Investigation of the mechanisms underpinning IL-6 cytokine release in bystander responses: The roles of radiation dose, radiation quality and specific ROS/RNS scavengers. <i>International Journal of Radiation Biology</i> , 2012, 88, 751-762.	1.0	26
27	Proton activation analysis of stable isotopes for a molybdenum biokinetics study in humans. <i>Medical Physics</i> , 1995, 22, 1293-1298.	1.6	24
28	GCR and SPE organ doses in deep space with different shielding: Monte Carlo simulations based on the FLUKA code coupled to anthropomorphic phantoms. <i>Advances in Space Research</i> , 2006, 37, 1791-1797.	1.2	24
29	Integration of Monte Carlo Simulations with PFGE Experimental Data Yields Constant RBE of 2.3 for DNA Double-Strand Break Induction by Nitrogen Ions between 125 and 225 keV/14m LET. <i>Radiation Research</i> , 2013, 179, 690-697.	0.7	24
30	Effects of Ionizing Radiation on Cell-to-Cell Communication. <i>Radiation Research</i> , 2010, 174, 280-289.	0.7	23
31	A Clarion Call for Large-Scale Collaborative Studies of Pediatric Proton Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 98, 980-981.	0.4	23
32	Predicting DNA damage foci and their experimental readout with 2D microscopy: a unified approach applied to photon and neutron exposures. <i>Scientific Reports</i> , 2019, 9, 14019.	1.6	21
33	The COOLER Code: A Novel Analytical Approach to Calculate Subcellular Energy Deposition by Internal Electron Emitters. <i>Radiation Research</i> , 2017, 188, 204-220.	0.7	19
34	The ANDANTE project: a multidisciplinary approach to neutron RBE. <i>Radiation Protection Dosimetry</i> , 2015, 166, 311-315.	0.4	18
35	A water-filled garment to protect astronauts during interplanetary missions tested on board the ISS. <i>Life Sciences in Space Research</i> , 2018, 18, 1-11.	1.2	18
36	The Interplay between Radioresistant Caco-2 Cells and the Immune System Increases Epithelial Layer Permeability and Alters Signaling Protein Spectrum. <i>Frontiers in Immunology</i> , 2017, 8, 223.	2.2	17

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37	Human exposure to space radiation: role of primary and secondary particles. <i>Radiation Protection Dosimetry</i> , 2006, 122, 362-366.	0.4	16
38	Modeling Dose Deposition and DNA Damage Due to Low-Energy H^2 Emitters. <i>Radiation Research</i> , 2014, 182, 322-330.	0.7	16
39	Differential Response and Priming Dose Effect on the Proteome of Human Fibroblast and Stem Cells Induced by Exposure to Low Doses of Ionizing Radiation. <i>Radiation Research</i> , 2016, 185, 299.	0.7	16
40	Radiation-induced cell cycle perturbations: a computational tool validated with flow-cytometry data. <i>Scientific Reports</i> , 2021, 11, 925.	1.6	16
41	Monte Carlo evaluation of DNA fragmentation spectra induced by different radiation qualities. <i>Radiation Protection Dosimetry</i> , 2011, 143, 226-231.	0.4	15
42	Analytical formulas representing track-structure simulations on DNA damage induced by protons and light ions at radiotherapy-relevant energies. <i>Scientific Reports</i> , 2020, 10, 15775.	1.6	15
43	Low-dose radiation action: possible implications of bystander effects and adaptive response. <i>Journal of Radiological Protection</i> , 2002, 22, A39-A42.	0.6	14
44	Radiation risk estimation: Modelling approaches for α -targeted and β -non-targeted effects. <i>Advances in Space Research</i> , 2007, 40, 1392-1400.	1.2	13
45	Cellular communication and β -non-targeted effects: Modelling approaches. <i>Advances in Space Research</i> , 2009, 44, 917-925.	1.2	13
46	The risks to healthy tissues from the use of existing and emerging techniques for radiation therapy. <i>Radiation Protection Dosimetry</i> , 2011, 143, 533-535.	0.4	13
47	Cross-section scaling for track structure simulations of low-energy ions in liquid water. <i>Radiation Protection Dosimetry</i> , 2015, 166, 15-18.	0.4	13
48	European low-dose radiation risk research strategy: future of research on biological effects at low doses. <i>Radiation Protection Dosimetry</i> , 2015, 164, 38-41.	0.4	13
49	Track-structure simulations of energy deposition patterns to mitochondria and damage to their DNA. <i>International Journal of Radiation Biology</i> , 2019, 95, 3-11.	1.0	13
50	Whole exome sequencing discloses heterozygous variants in the <i>DNAJC21</i> and <i>EFL1</i> genes but not in <i>SRP54</i> in 6 out of 16 patients with Shwachman-Diamond Syndrome carrying biallelic <i>SBDS</i> mutations. <i>British Journal of Haematology</i> , 2019, 185, 627-630.	1.2	12
51	The European strategy on low dose risk research and the role of radiation quality according to the recommendations of the α -ad hoc High Level and Expert Group (HLEG). <i>Radiation and Environmental Biophysics</i> , 2010, 49, 463-468.	0.6	11
52	Radiation-induced perturbation of cell-to-cell signalling and communication. <i>Radiation Protection Dosimetry</i> , 2011, 143, 294-300.	0.4	11
53	Assessment of cancer risk from neutron exposure α The ANDANTE project. <i>Radiation Measurements</i> , 2013, 57, 68-73.	0.7	11
54	<i>Ex vivo</i> miRNome analysis in <i>Ptch1+/-</i> cerebellum granule cells reveals a subset of miRNAs involved in radiation-induced medulloblastoma. <i>Oncotarget</i> , 2016, 7, 68253-68269.	0.8	11

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55	Modeling of DNA fragmentation induced in human fibroblasts by 56Fe ions. <i>Advances in Space Research</i> , 2007, 40, 1401-1407.	1.2	10
56	Mechanisms of the induction of apoptosis mediated by radiation-induced cytokine release. <i>Radiation Protection Dosimetry</i> , 2015, 166, 165-169.	0.4	10
57	Modelling human exposure to space radiation with different shielding: the FLUKA code coupled with anthropomorphic phantoms. <i>Journal of Physics: Conference Series</i> , 2006, 41, 135-142.	0.3	9
58	MELODI: the 'Multidisciplinary European Low-Dose Initiative'. <i>Radiation Protection Dosimetry</i> , 2011, 143, 330-334.	0.4	8
59	In vitro $\hat{1}^3$ -ray-induced inflammatory response is dominated by culturing conditions rather than radiation exposures. <i>Scientific Reports</i> , 2015, 5, 9343.	1.6	8
60	Radiosensitivity in lymphoblastoid cell lines derived from Shwachmanâ€™Diamond syndrome patients. <i>Radiation Protection Dosimetry</i> , 2015, 166, 95-100.	0.4	8
61	Reaction mechanism interplay in determining the biological effectiveness of neutrons as a function of energy. <i>Radiation Protection Dosimetry</i> , 2015, 166, 316-319.	0.4	8
62	MODELLING $\hat{1}^3$ -H2AX FOCI INDUCTION TO MIMIC LIMITATIONS IN THE SCORING TECHNIQUE. <i>Radiation Protection Dosimetry</i> , 2019, 183, 121-125.	0.4	8
63	Radiochromic Films for Improved Evaluation of Patient Dose in Liver Interventions. <i>Journal of Vascular and Interventional Radiology</i> , 2006, 17, 855-862.	0.2	7
64	INVESTIGATION INTO THE PROBABILITY FOR MISCOUNTING IN FOCI-BASED ASSAYS. <i>Radiation Protection Dosimetry</i> , 2019, 183, 126-130.	0.4	7
65	Education and training to support radiation protection research in Europe: the DoReMi experience. <i>International Journal of Radiation Biology</i> , 2019, 95, 90-96.	1.0	7
66	A Co-culture Method to Investigate the Crosstalk Between X-ray Irradiated Caco-2 Cells and PBMC. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	6
67	Immunophenotyping Reveals No Significant Perturbation to PBMC Subsets When Co-cultured With Colorectal Adenocarcinoma Caco-2 Cells Exposed to X-Rays. <i>Frontiers in Immunology</i> , 2020, 11, 1077.	2.2	6
68	An Integrated Analysis of the Response of Colorectal Adenocarcinoma Caco-2 Cells to X-Ray Exposure. <i>Frontiers in Oncology</i> , 2021, 11, 688919.	1.3	6
69	Heavy-ion collisions: preliminary results of a new QMD model coupled with FLUKA. <i>Journal of Physics: Conference Series</i> , 2006, 41, 519-522.	0.3	5
70	WHAT ROLES FOR TRACK-STRUCTURE AND MICRODOSIMETRY IN THE ERA OF -omics AND SYSTEMS BIOLOGY?. <i>Radiation Protection Dosimetry</i> , 2019, 183, 22-25.	0.4	5
71	INNOVATIVE SOLUTIONS FOR PERSONAL RADIATION SHIELDING IN SPACE. <i>Radiation Protection Dosimetry</i> , 2019, 183, 228-232.	0.4	5
72	A COMPARISON BETWEEN X-RAY AND CARBON ION IRRADIATION IN HUMAN NEURAL STEM CELLS. <i>Radiation Protection Dosimetry</i> , 2019, 183, 102-106.	0.4	5

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73	Carbon induced reactions at low incident energies. Journal of Physics: Conference Series, 2006, 41, 212-218.	0.3	4
74	AT THE PHYSICS–BIOLOGY INTERFACE: THE NEUTRON AFFAIR. Radiation Protection Dosimetry, 2018, 180, 278-281.	0.4	4
75	Coupling Radiation Transport and Track-Structure Simulations: Strategy Based on Analytical Formulas Representing DNA Damage Yields. Frontiers in Physics, 2021, 9, .	1.0	4
76	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.	1.1	4
77	Stimulation of intercellular induction of apoptosis in transformed cells at very low doses of ionising radiation: spatial and temporal features. Radiation Protection Dosimetry, 2015, 166, 161-164.	0.4	3
78	Energy dependence of the complexity of DNA damage induced by carbon ions. Radiation Protection Dosimetry, 2015, 166, 86-90.	0.4	3
79	The PERSEO Experience: A Water-Filled Garment Prototype for Personal Radiation Protection of Astronauts Successfully Tested on Board the International Space Station. Aerotecnica Missili & Spazio, 2020, 99, 111-114.	0.5	3
80	A 3D In Vitro Model of the Human Airway Epithelium Exposed to Tritiated Water: Dosimetric Estimate and Cytotoxic Effects. Radiation Research, 2020, 195, 265-274.	0.7	3
81	Role of DNA/chromatin organisation and scavenging capacity in USX- and proton- induced DNA damage. Radiation Protection Dosimetry, 2006, 122, 141-146.	0.4	2
82	A Monte Carlo approach to study neutron and fragment emission in heavy-ion reactions. Advances in Space Research, 2007, 40, 1350-1356.	1.2	2
83	Second Malignancies following Breast Cancer Treatment: A Case-Control Study Based on the Peridose Methodology. ALLEGRO Project (Task 5.4). Tumori, 2012, 98, 715-721.	0.6	2
84	EDUCATION AND TRAINING IN EUROPE TO SUPPORT LOW-DOSE RADIATION PHYSICS AND RADIOBIOLOGY. Radiation Protection Dosimetry, 2019, 183, 156-159.	0.4	2
85	Role of DNA organisation and environmental scavenging capacity in the evolution of radiobiological damage: models and simulations. Radiotherapy and Oncology, 2004, 73, S170-S172.	0.3	1
86	Investigation of radiation-induced multilayered signalling response of the inflammatory pathway. Radiation Protection Dosimetry, 2015, 166, 157-160.	0.4	1
87	BIOINFORMATIC ANALYSIS OF DOSE- AND TIME-DEPENDENT miRNome RESPONSES. Radiation Protection Dosimetry, 2019, 183, 151-155.	0.4	1
88	Chromosome Aberrations by Heavy Ions. Biological and Medical Physics Series, 2012, , 371-384.	0.3	1
89	Editorial. Radiation Protection Dosimetry, 2006, 122, 1-2.	0.4	0
90	Low energy light ion interactions. AIP Conference Proceedings, 2007, , .	0.3	0

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91	How to optimize exposures using radiobiology as a guide. <i>Physica Medica</i> , 2014, 30, e6.	0.4	0
92	Neutron flux characterisation of the Pavia TRIGA Mark II research reactor for radiobiological and microdosimetric applications. <i>Radiation Protection Dosimetry</i> , 2015, 166, 261-265.	0.4	0
93	Early Events Leading to Radiation-Induced Biological Effects. , 2014, , 1-22.		0
94	Second malignancies following breast cancer treatment: a case-control study based on the Peridose methodology. Allegro project (task 5.4). <i>Tumori</i> , 2012, 98, 715-21.	0.6	0