

# Guy Y Garty

## List of Publications by Year in descending order

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46  
papers

946  
citations

394286

19  
h-index

501076

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g-index

52  
all docs

52  
docs citations

52  
times ranked

580  
citing authors

#	ARTICLE	IF	CITATIONS
1	THE RABIT: A RAPID AUTOMATED BIODOSIMETRY TOOL FOR RADIOLOGICAL TRIAGE. Health Physics, 2010, 98, 209-217.	0.3	103
2	Adapting the $\hat{I}^3$ -H2AX Assay for Automated Processing in Human Lymphocytes. 1. Technological Aspects. Radiation Research, 2011, 175, 282-290.	0.7	74
3	Comparison of gene expression response to neutron and x-ray irradiation using mouse blood. BMC Genomics, 2017, 18, 2.	1.2	57
4	The RABIT: A Rapid Automated Biodosimetry Tool for radiological triage. II. Technological developments. International Journal of Radiation Biology, 2011, 87, 776-790.	1.0	50
5	RABIT-II: Implementation of a High-Throughput Micronucleus Biodosimetry Assay on Commercial Biotech Robotic Systems. Radiation Research, 2017, 187, 502-508.	0.7	39
6	Automated Triage Radiation Biodosimetry: Integrating Imaging Flow Cytometry with High-Throughput Robotics to Perform the Cytokinesis-Block Micronucleus Assay. Radiation Research, 2019, 191, 342.	0.7	39
7	Impact of Neutron Exposure on Global Gene Expression in a Human Peripheral Blood Model. Radiation Research, 2017, 187, 443.	0.7	35
8	Identification of differentially expressed genes and pathways in mice exposed to mixed field neutron/photon radiation. BMC Genomics, 2018, 19, 504.	1.2	31
9	Fast Image Analysis for the Micronucleus Assay in a Fully Automated High-Throughput Biodosimetry System. Radiation Research, 2014, 181, 146-161.	0.7	29
10	Accelerator-Based Biological Irradiation Facility Simulating Neutron Exposure from an Improvised Nuclear Device. Radiation Research, 2015, 184, 404-410.	0.7	29
11	An automated imaging system for radiation biodosimetry. Microscopy Research and Technique, 2015, 78, 587-598.	1.2	28
12	RABIT-II-DCA: A Fully-automated Dicentric Chromosome Assay in Multiwell Plates. Radiation Research, 2019, 192, 311.	0.7	28
13	Mice and the A-Bomb: Irradiation Systems for Realistic Exposure Scenarios. Radiation Research, 2017, 187, 475-485.	0.7	27
14	Serum lipidomic analysis from mixed neutron/X-ray radiation fields reveals a hyperlipidemic and pro-inflammatory phenotype. Scientific Reports, 2019, 9, 4539.	1.6	26
15	Single-Particle/Single-Cell Ion Microbeams as Probes of Biological Mechanisms. IEEE Transactions on Plasma Science, 2008, 36, 1424-1431.	0.6	25
16	Metabolic Dysregulation after Neutron Exposures Expected from an Improvised Nuclear Device. Radiation Research, 2017, 188, 21.	0.7	23
17	Broad energy range neutron spectroscopy using a liquid scintillator and a proportional counter: Application to a neutron spectrum similar to that from an improvised nuclear device. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 794, 234-239.	0.7	22
18	Expanding the Question-answering Potential of Single-cell Microbeams at RARAF, USA. Journal of Radiation Research, 2009, 50, A21-A28.	0.8	21

#	ARTICLE	IF	CITATIONS
19	Next generation platforms for high-throughput biodosimetry. <i>Radiation Protection Dosimetry</i> , 2014, 159, 105-110.	0.4	21
20	Infrastructure to support ultra high throughput biodosimetry screening after a radiological event. <i>International Journal of Radiation Biology</i> , 2011, 87, 754-765.	1.0	19
21	Human Transcriptomic Response to Mixed Neutron-Photon Exposures Relevant to an Improved Nuclear Device. <i>Radiation Research</i> , 2019, 192, 189.	0.7	19
22	RABiT-II: A Fully-Automated Micronucleus Assay System with Shortened Time to Result. <i>Radiation Research</i> , 2019, 191, 232.	0.7	17
23	The use of a centrifuge-free RABiT-II system for high-throughput micronucleus analysis. <i>Journal of Radiation Research</i> , 2020, 61, 68-72.	0.8	15
24	A High Throughput Approach to Reconstruct Partial-Body and Neutron Radiation Exposures on an Individual Basis. <i>Scientific Reports</i> , 2020, 10, 2899.	1.6	15
25	Cytogenetically-based biodosimetry after high doses of radiation. <i>PLoS ONE</i> , 2020, 15, e0228350.	1.1	14
26	Novel neutron sources at the Radiological Research Accelerator Facility. <i>Journal of Instrumentation</i> , 2012, 7, C03031-C03031.	0.5	13
27	VADER: a variable dose-rate external <sup>137</sup> Cs irradiator for internal emitter and low dose rate studies. <i>Scientific Reports</i> , 2020, 10, 19899.	1.6	12
28	The RABiT-II DCA in the Rhesus Macaque Model. <i>Radiation Research</i> , 2020, 196, 501-509.	0.7	10
29	Design and Preliminary Validation of a Rapid Automated Biodosimetry Tool for High Throughput Radiological Triage. , 2009, 3, 61-67.		9
30	Development of a robotically-based automated biodosimetry tool for high-throughput radiological triage. <i>International Journal of Biomechatronics and Biomedical Robotics</i> , 2010, 1, 115.	0.1	9
31	Automated recognition of robotic manipulation failures in high-throughput biodosimetry tool. <i>Expert Systems With Applications</i> , 2012, 39, 9602-9611.	4.4	9
32	Optofluidic cell manipulation for a biological microbeam. <i>Review of Scientific Instruments</i> , 2013, 84, 014301.	0.6	8
33	DNA damage response in peripheral mouse blood leukocytes in vivo after variable, low-dose rate exposure. <i>Radiation and Environmental Biophysics</i> , 2020, 59, 89-98.	0.6	8
34	Effects of Acute and Chronic Exposure to a Mixed Field of Neutrons and Photons and Single or Fractionated Simulated Galactic Cosmic Ray Exposure on Behavioral and Cognitive Performance in Mice. <i>Radiation Research</i> , 2021, 196, 31-39.	0.7	8
35	A Rapid, Quantitative Method to Characterize The Human Lymphocyte Concentration for Automated High-Throughput Radiation Biodosimetry UGHPUT RADIATION BIODOSIMETRY. <i>Biomedical Engineering Research</i> , 2013, 2, 16-19.	0.2	8
36	Cytogenetic Damage of Human Lymphocytes in Humanized Mice Exposed to Neutrons and X Rays 24 h After Exposure. <i>Cytogenetic and Genome Research</i> , 2021, 161, 352-361.	0.6	7

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37	Small Molecule Responses to Sequential Irradiation with Neutrons and Photons for Biodosimetry Applications: An Initial Assessment. Radiation Research, 2021, 196, 468-477.	0.7	7
38	Liquid Handling Optimization in High-Throughput Biodosimetry Tool. Journal of Medical Devices, Transactions of the ASME, 2016, 10, 0410071-4100710.	0.4	6
39	Machine learning methodology for high throughput personalized neutron dose reconstruction in mixed neutron+photon exposures. Scientific Reports, 2021, 11, 4022.	1.6	5
40	Biofluid Metabolomics of Mice Exposed to External Low-Dose Rate Radiation in a Novel Irradiation System, the Variable Dose-Rate External <sup>137</sup> Cs Irradiator. Journal of Proteome Research, 2021, 20, 5145-5155.	1.8	5
41	An injectable dosimeter for small animal irradiations. Physics in Medicine and Biology, 2019, 64, 18NT01.	1.6	4
42	Biofluid Metabolomics and Lipidomics of Mice Exposed to External Very High-Dose Rate Radiation. Metabolites, 2022, 12, 520.	1.3	3
43	An Integrated Preprocessing Approach for Exploring Single-Cell Gene Expression in Rare Cells. Scientific Reports, 2019, 9, 19758.	1.6	2
44	91...Impact of ultra-fast FLASH™ radiotherapy on single cell immunogenomics in diffuse intrinsic pontine glioma (DIPG). , 2021, 9, A100-A100.		1
45	Platform-Dependent Liquid Handling in High-Throughput Biodosimetry Tool. , 2016, , .		0
46	DIPG-45. Radiation induces a robust interferon response in Diffuse Midline Glioma (DMG), improving the potential for combination immunotherapy. Neuro-Oncology, 2022, 24, i28-i29.	0.6	0