

Tatjana Paunesku

List of Publications by Year in descending order

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117
papers

4,395
citations

126708

33
h-index

110170

64
g-index

125
all docs

125
docs citations

125
times ranked

6236
citing authors

#	ARTICLE	IF	CITATIONS
1	The enduring legacy of Marie Curie: impacts of radium in 21st century radiological and medical sciences. <i>International Journal of Radiation Biology</i> , 2022, 98, 267-275.	1.0	5
2	A reliable workflow for improving nanoscale X-ray fluorescence tomographic analysis on nanoparticle-treated HeLa cells. <i>Metallomics</i> , 2022, 14, .	1.0	2
3	Effects of low dose and low dose rate low linear energy transfer radiation on animals – review of recent studies relevant for carcinogenesis. <i>International Journal of Radiation Biology</i> , 2021, 97, 757-768.	1.0	13
4	A first-in-human phase 0 clinical study of RNA interference–based spherical nucleic acids in patients with recurrent glioblastoma. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	136
5	Analyses of cancer incidence and other morbidities in neutron irradiated B6CF1 mice. <i>PLoS ONE</i> , 2021, 16, e0231511.	1.1	6
6	Development of Fe ₃ O ₄ core–TiO ₂ shell nanocomposites and nanoconjugates as a foundation for neuroblastoma radiosensitization. <i>Cancer Nanotechnology</i> , 2021, 12, 12.	1.9	9
7	Paramagnetic Mn ₈ Fe ₄ -co-Polystyrene Nanobeads as a Potential T ₁ –T ₂ Multimodal Magnetic Resonance Imaging Contrast Agent with <i>In Vivo</i> Studies. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39042-39054.	4.0	6
8	Use of X-Ray Fluorescence Microscopy for Studies on Research Models of Hepatocellular Carcinoma. <i>Frontiers in Public Health</i> , 2021, 9, 711506.	1.3	1
9	Development of Multi-Scale X-ray Fluorescence Tomography for Examination of Nanocomposite-Treated Biological Samples. <i>Cancers</i> , 2021, 13, 4497.	1.7	4
10	Analyses of cancer incidence and other morbidities in gamma irradiated B6CF1 mice. <i>PLoS ONE</i> , 2020, 15, e0231510.	1.1	7
11	Activation of DNA damage repair factors in HPV positive oropharyngeal cancers. <i>Virology</i> , 2020, 547, 27-34.	1.1	10
12	Overcoming challenges in human saliva gene expression measurements. <i>Scientific Reports</i> , 2020, 10, 11147.	1.6	33
13	Insights into platinum-induced peripheral neuropathy – current perspective. <i>Neural Regeneration Research</i> , 2020, 15, 1623.	1.6	14
14	Analyses of cancer incidence and other morbidities in gamma irradiated B6CF1 mice. , 2020, 15, e0231510.		0
15	Analyses of cancer incidence and other morbidities in gamma irradiated B6CF1 mice. , 2020, 15, e0231510.		0
16	Analyses of cancer incidence and other morbidities in gamma irradiated B6CF1 mice. , 2020, 15, e0231510.		0
17	Analyses of cancer incidence and other morbidities in gamma irradiated B6CF1 mice. , 2020, 15, e0231510.		0
18	The Transition from Metal-Based to Metal-Free Contrast Agents for T ₁ Magnetic Resonance Imaging Enhancement. <i>Bioconjugate Chemistry</i> , 2019, 30, 2264-2286.	1.8	40

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19	Radiation databases and archives – examples and comparisons. International Journal of Radiation Biology, 2019, 95, 1378-1389.	1.0	14
20	Neuroprotective Role of Selected Antioxidant Agents in Preventing Cisplatin-Induced Damage of Human Neurons In Vitro. Cellular and Molecular Neurobiology, 2019, 39, 619-636.	1.7	16
21	Elemental Zn and its Binding Protein Zinc- α 2-Glycoprotein are Elevated in HPV-Positive Oropharyngeal Squamous Cell Carcinoma. Scientific Reports, 2019, 9, 16965.	1.6	8
22	Funding for radiation research: past, present and future. International Journal of Radiation Biology, 2019, 95, 816-840.	1.0	17
23	Optimization-based simultaneous alignment and reconstruction in multi-element tomography. Optics Letters, 2019, 44, 4331.	1.7	8
24	Protein Binding Effects of Dopamine Coated Titanium Dioxide Shell Nanoparticles. Precision Nanomedicine, 2019, 2, 393-438.	0.4	5
25	Intracellular in situ labeling of TiO ₂ nanoparticles for fluorescence microscopy detection. Nano Research, 2018, 11, 464-476.	5.8	30
26	Reflections on Basic Science Studies Involving Low Doses of Ionizing Radiation. Health Physics, 2018, 115, 623-627.	0.3	9
27	Abstract 456: WR1065, the active metabolite of amifostine modulates chemistry and biology of cisplatin. , 2018, , .		0
28	Biological basis of radiation protection needs rejuvenation. International Journal of Radiation Biology, 2017, 93, 1056-1063.	1.0	13
29	Structural and elemental changes in glioblastoma cells <i>in situ</i> : complementary imaging with high resolution visible light- and X-ray microscopy. Analyst, The, 2017, 142, 356-365.	1.7	10
30	Preserving elemental content in adherent mammalian cells for analysis by synchrotron-based X-ray fluorescence microscopy. Journal of Microscopy, 2017, 265, 81-93.	0.8	83
31	Future Directions of Intraoperative Radiation Therapy: A Brief Review. Frontiers in Oncology, 2017, 7, 300.	1.3	28
32	Distribution of Iron Oxide Core-Titanium Dioxide Shell Nanoparticles in VX2 Tumor Bearing Rabbits Introduced by Two Different Delivery Modalities. Nanomaterials, 2016, 6, 143.	1.9	7
33	2D/3D cryo x-ray fluorescence imaging at the bionanoprobe at the advanced photon source. AIP Conference Proceedings, 2016, , .	0.3	5
34	The Bionanoprobe: Synchrotron-Based Hard X-ray Fluorescence Microscopy for 2D/3D Trace Element Mapping. Microscopy Today, 2015, 23, 26-29.	0.2	13
35	Cryogenic Sample Preparation Preserves Elemental Composition for Correlative Light and X-ray Fluorescence Microscopy. Microscopy and Microanalysis, 2015, 21, 877-878.	0.2	0
36	Radiosensitization and Nanoparticles. Cancer Treatment and Research, 2015, 166, 151-171.	0.2	32

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37	The Increase in Animal Mortality Risk following Exposure to Sparsely Ionizing Radiation Is Not Linear Quadratic with Dose. PLoS ONE, 2015, 10, e0140989.	1.1	37
38	Single Administration of p2TA (AB103), a CD28 Antagonist Peptide, Prevents Inflammatory and Thrombotic Reactions and Protects against Gastrointestinal Injury in Total-Body Irradiated Mice. PLoS ONE, 2014, 9, e101161.	1.1	11
39	Direct isolation of flavonoids from plants using ultra-small anatase TiO_2 nanoparticles. Plant Journal, 2014, 77, 443-453.	2.8	53
40	The Bionanoprobe: hard X-ray fluorescence nanoprobe with cryogenic capabilities. Journal of Synchrotron Radiation, 2014, 21, 66-75.	1.0	151
41	Expression of c-Myc oncogene in sinonasal cancer.. Journal of Clinical Oncology, 2014, 32, e22176-e22176.	0.8	0
42	Abstract 4913: Development of $\text{Fe}_3\text{O}_4@ \text{TiO}_2$ core-shell nanocomposites as radiosensitizers. , 2014, , .		0
43	Abstract 4918: In vitro radiosensitization of human neuroblastoma cells with iron oxide - titanium dioxide core-shell nanocomposites conjugated with 3,4-Dihydroxyphenylacetic acid (DOPAC) . , 2014, , .		0
44	Negatively Charged Metal Oxide Nanoparticles Interact with the 20S Proteasome and Differentially Modulate Its Biologic Functional Effects. ACS Nano, 2013, 7, 7759-7772.	7.3	21
45	Epidermal Growth Factor Receptor Targeted Nuclear Delivery and High-Resolution Whole Cell X-ray Imaging of $\text{Fe}_3\text{O}_4@ \text{TiO}_2$ Nanoparticles in Cancer Cells. ACS Nano, 2013, 7, 10502-10517.	7.3	113
46	Cytotoxicity and DNA cleavage with core-shell nanocomposites functionalized by a KH domain DNA binding peptide. Nanoscale, 2013, 5, 11394.	2.8	11
47	Comparing radiation toxicities across species: An examination of radiation effects in <i>Mus musculus</i> and <i>Peromyscus leucopus</i> . International Journal of Radiation Biology, 2013, 89, 391-400.	1.0	6
48	Sub-100-nm 3D-elemental mapping of frozen-hydrated cells using the bionanoprobe. Proceedings of SPIE, 2013, , .	0.8	0
49	Enhanced doxorubicin transport to multidrug resistant breast cancer cells via TiO_2 nanocarriers. RSC Advances, 2013, 3, 20855.	1.7	47
50	Mapping the subcellular localization of $\text{Fe}_3\text{O}_4@ \text{TiO}_2$ nanoparticles by X-ray Fluorescence Microscopy. Journal of Physics: Conference Series, 2013, 463, 012020.	0.3	4
51	Abstract 5663: In vitro radiosensitization of human cervical cancer HeLa cells with iron oxide-titanium dioxide core-shell nanoparticles conjugated with 3,4-Dihydroxyphenylacetic acid (DOPAC).. , 2013, , .		0
52	X-Ray Fluorescence Microscopy for Investigation of Archival Tissues. Health Physics, 2012, 103, 181-186.	0.3	25
53	Submicron hard X-ray fluorescence imaging of synthetic elements. Analytica Chimica Acta, 2012, 722, 21-28.	2.6	7
54	The Effects of Radiation and Dose-Fractionation on Cancer and Non-Tumor Disease Development. International Journal of Environmental Research and Public Health, 2012, 9, 4688-4703.	1.2	11

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55	Nanocarriers Enhance Doxorubicin Uptake in Drug-Resistant Ovarian Cancer Cells. <i>Cancer Research</i> , 2012, 72, 769-778.	0.4	97
56	A proteomic approach to identification of plutonium-binding proteins in mammalian cells. <i>Journal of Proteomics</i> , 2012, 75, 1505-1514.	1.2	18
57	Abstract 1965: Evaluating the use of Fe ₃ O ₄ @TiO ₂ nanoparticles and nanoconjugates with a HPV 18 E2 peptide as a potential therapy for HPV containing cancer cells. , 2012, , .		1
58	Abstract 1949: Receptor mediated delivery of therapeutic Fe ₃ O ₄ core TiO ₂ shell nanoparticles. , 2012, , .		1
59	Direct Determination of the Intracellular Oxidation State of Plutonium. <i>Inorganic Chemistry</i> , 2011, 50, 7591-7597.	1.9	15
60	Plutonium uptake and distribution in mammalian cells: Molecular vs. polymeric plutonium. <i>International Journal of Radiation Biology</i> , 2011, 87, 1023-1032.	1.0	18
61	PAST AND FUTURE WORK ON RADIOBIOLOGY MEGA-STUDIES: A CASE STUDY AT ARGONNE NATIONAL LABORATORY. <i>Health Physics</i> , 2011, 100, 613-621.	0.3	23
62	Interrogation of EGFR-Targeted Uptake of TiO ₂ Nanoconjugates by X-ray Fluorescence Microscopy. , 2011, 1365, 423-426.		4
63	A Multimodal Nanocomposite for Biomedical Imaging. <i>AIP Conference Proceedings</i> , 2011, 1365, 379.	0.3	5
64	Combination strategies for repair, plasticity, and regeneration using regulation of gene expression during the chronic phase after spinal cord injury. <i>Synapse</i> , 2011, 65, 1255-1281.	0.6	36
65	Peptide-mediated cancer targeting of nanoconjugates. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2011, 3, 269-281.	3.3	55
66	Endocytosis of titanium dioxide nanoparticles in prostate cancer PC-3M cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011, 7, 123-130.	1.7	134
67	An iron-dependent and transferrin-mediated cellular uptake pathway for plutonium. <i>Nature Chemical Biology</i> , 2011, 7, 560-565.	3.9	76
68	Tissue and data archives from irradiation experiments conducted at Argonne National Laboratory over a period of four decades. <i>Radiation and Environmental Biophysics</i> , 2010, 49, 317-324.	0.6	16
69	Fast-scanning high-flux microprobe for biological X-ray fluorescence microscopy and microXAS. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 522-529.	1.0	16
70	Gene Expression Profiles in Mouse Liver after Long-Term Low-Dose-Rate Irradiation with Gamma Rays. <i>Radiation Research</i> , 2010, 174, 611.	0.7	33
71	Uptake and Distribution of Ultrasmall Anatase TiO ₂ Alizarin Red S Nanoconjugates in <i>Arabidopsis thaliana</i> . <i>Nano Letters</i> , 2010, 10, 2296-2302.	4.5	395
72	Ductal Carcinoma in Situ: X-ray Fluorescence Microscopy and Dynamic Contrast-enhanced MR Imaging Reveals Gadolinium Uptake within Neoplastic Mammary Ducts in a Murine Model. <i>Radiology</i> , 2009, 253, 399-406.	3.6	76

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73	Biological applications of X-ray microprobes. <i>International Journal of Radiation Biology</i> , 2009, 85, 710-713.	1.0	12
74	Mechanisms of radiation-induced gene responses. <i>Stem Cells</i> , 2009, 15, 15-25.	1.4	3
75	Labeling TiO ₂ Nanoparticles with Dyes for Optical Fluorescence Microscopy and Determination of TiO ₂ DNA Nanoconjugate Stability. <i>Small</i> , 2009, 5, 1318-1325.	5.2	95
76	Fast low-angle positive contrast steady-state free precession imaging of USPIO-labeled macrophages: theory and in vitro experiment. <i>Magnetic Resonance Imaging</i> , 2009, 27, 961-969.	1.0	7
77	Response of heterogeneous ribonuclear proteins (hnRNP) to ionising radiation and their involvement in DNA damage repair. <i>International Journal of Radiation Biology</i> , 2009, 85, 643-655.	1.0	73
78	Superparamagnetic iron oxide nanoparticle-labeled cells as an effective vehicle for tracking the GFP gene marker using magnetic resonance imaging. <i>Cytotherapy</i> , 2009, 11, 43-51.	0.3	21
79	Effects of fluorescent dye coating of metal oxide nanoparticles on DNA scission. <i>The Journal of the Robert H Lurie Cancer Center of Northwestern University</i> , 2009, 13, 72-76.	0.0	0
80	Methods for assessing DNA hybridization of peptide nucleic acid-titanium dioxide nanoconjugates. <i>Analytical Biochemistry</i> , 2008, 383, 226-235.	1.1	40
81	Gadolinium-conjugated TiO ₂ -DNA oligonucleotide nanoconjugates show prolonged intracellular retention period and T1-weighted contrast enhancement in magnetic resonance images. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2008, 4, 201-207.	1.7	46
82	Comparison of Two Different Methods for Inoculating VX2 Tumors in Rabbit Livers and Hind Limbs. <i>Journal of Vascular and Interventional Radiology</i> , 2008, 19, 931-936.	0.2	54
83	Incidence of tissue toxicities in gamma ray and fission neutron-exposed mice treated with Amifostine. <i>International Journal of Radiation Biology</i> , 2008, 84, 623-634.	1.0	17
84	Absence of <i>Ku70</i> Gene Obliterates X-Ray-Induced <i>lacZ</i> Mutagenesis of Small Deletions in Mouse Tissues. <i>Radiation Research</i> , 2008, 170, 216-223.	0.7	9
85	TITANIUM DIOXIDE NANOPARTICLES ASSEMBLED BY DNA MOLECULES HYBRIDIZATION AND LOADING OF DNA INTERACTING PROTEINS. <i>Nano</i> , 2008, 03, 27-36.	0.5	20
86	Liver Tumors: Monitoring Embolization in Rabbits with VX2 Tumors Transcatheter Intraarterial First-Pass Perfusion MR Imaging. <i>Radiology</i> , 2007, 245, 130-139.	3.6	45
87	Effect of Transcatheter Arterial Embolization on Levels of Hypoxia-inducible Factor-1 α in Rabbit VX2 Liver Tumors. <i>Journal of Vascular and Interventional Radiology</i> , 2007, 18, 639-645.	0.2	61
88	Rabbit VX2 Tumors as an Animal Model of Uterine Fibroids and for Uterine Artery Embolization. <i>Journal of Vascular and Interventional Radiology</i> , 2007, 18, 411-418.	0.2	17
89	Intracellular Distribution of TiO ₂ -DNA Oligonucleotide Nanoconjugates Directed to Nucleolus and Mitochondria Indicates Sequence Specificity. <i>Nano Letters</i> , 2007, 7, 596-601.	4.5	116
90	DNA-TiO ₂ Nanoconjugates Labeled with Magnetic Resonance Contrast Agents. <i>Journal of the American Chemical Society</i> , 2007, 129, 15760-15761.	6.6	105

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91	Lethal and Non-Lethal Toxicity Incidence in Gamma Ray and Neutron Exposed Mice Treated With and Without Amifostine. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 69, S617.	0.4	0
92	Gene expression analysis of frontotemporal lobar degeneration of the motor neuron disease type with ubiquitinated inclusions. <i>Acta Neuropathologica</i> , 2007, 114, 81-94.	3.9	89
93	Nanoparticles for Applications in Cellular Imaging. <i>Nanoscale Research Letters</i> , 2007, 2, 430-41.	3.1	158
94	209 The role of proliferating cell nuclear antigen (PCNA) protein in radiation-mediated cleavage of oligonucleotides by titanium dioxide "DNA nanocomposites in vitro. <i>Radiotherapy and Oncology</i> , 2006, 78, S73.	0.3	0
95	210 Development of titanium dioxide-DNA nanocomposites for intracellular delivery and radiation-mediated dna scission. <i>Radiotherapy and Oncology</i> , 2006, 78, S73-S74.	0.3	0
96	232 Proliferating cell nuclear antigene (PCNA)-protein induction in lymphoid tissues of radioensitive "wasted" mice. <i>Radiotherapy and Oncology</i> , 2006, 78, S82.	0.3	0
97	In Vivo Diffusion-Weighted Imaging of Liver Tumor Necrosis in the VX2 Rabbit Model at 1.5 Tesla. <i>Investigative Radiology</i> , 2006, 41, 410-414.	3.5	49
98	2633. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, S562.	0.4	0
99	2684. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, S589.	0.4	0
100	2695. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, S595-S596.	0.4	0
101	X-ray fluorescence microprobe imaging in biology and medicine. <i>Journal of Cellular Biochemistry</i> , 2006, 99, 1489-1502.	1.2	213
102	Comparison between intravenous and intraarterial contrast injections for dynamic 3D MRI of liver tumors in the VX2 rabbit model. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 24, 242-247.	1.9	21
103	Real-time MRI Monitoring of Transcatheter Hepatic Artery Contrast Agent Delivery in Rabbits1. <i>Academic Radiology</i> , 2005, 12, 1342-1350.	1.3	7
104	Feasibility of Blood Oxygenation Level"dependent MR Imaging to Monitor Hepatic Transcatheter Arterial Embolization in Rabbits. <i>Journal of Vascular and Interventional Radiology</i> , 2005, 16, 1523-1528.	0.2	29
105	Biology of TiO2"oligonucleotide nanocomposites. <i>Nature Materials</i> , 2003, 2, 343-346.	13.3	286
106	Intracellular localization of titanium dioxide-biomolecule nanocomposites. <i>European Physical Journal Special Topics</i> , 2003, 104, 317-319.	0.2	4
107	Deficient PCNA expression and radiation sensitivity. <i>International Congress Series</i> , 2002, 1236, 249-253.	0.2	1
108	Proliferating cell nuclear antigen (PCNA): ringmaster of the genome. <i>International Journal of Radiation Biology</i> , 2001, 77, 1007-1021.	1.0	287

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109	p53 Gene deletions in paraffin-preserved lymphoid tumors from irradiated mice. <i>Leukemia Research</i> , 2000, 24, 511-517.	0.4	6
110	DNA Sequence Recognition by Hybridization to Short Oligomers: Experimental Verification of the Method on the <i>E. coli</i> Genome. <i>Genomics</i> , 1996, 37, 77-86.	1.3	19
111	Regulation of thymus PCNA expression is altered in radiation-sensitive wasted mice. <i>Carcinogenesis</i> , 1996, 17, 2357-2365.	1.3	4
112	Discovering distinct genes represented in 29,570 clones from infant brain cDNA libraries by applying sequencing by hybridization methodology.. <i>Genome Research</i> , 1996, 6, 132-141.	2.4	21
113	Clone Clustering by Hybridization. <i>Genomics</i> , 1995, 27, 83-89.	1.3	22
114	A presumed B6 strain-specific p53 polymorphism is confined to a B6 cell line and is likely to represent a facilitating mutation. <i>Mammalian Genome</i> , 1994, 5, 106-107.	1.0	2
115	DNA sequence determination by hybridization: a strategy for efficient large-scale sequencing. <i>Science</i> , 1993, 260, 1649-1652.	6.0	227
116	DNA sequencing by hybridization: 100 bases read by a non-gel-based method.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 10089-10093.	3.3	85
117	Variant chromosomal arrangement of adult $\hat{\imath}^2$ -globin genes in rat. <i>Gene</i> , 1989, 79, 139-150.	1.0	10