Tatjana Paunesku

List of Publications by Year
in descending order

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117 papers	4,395 citations	126907 33 h-index	110387 64 g-index
125 all docs	125 docs citations	125 times ranked	6236 citing authors

#	Article	IF	Citations
1	Uptake and Distribution of Ultrasmall Anatase TiO₂Alizarin Red S Nanoconjugates inArabidopsis thaliana. Nano Letters, 2010, 10, 2296-2302.	9.1	395
2	Proliferating cell nuclear antigen (PCNA): ringmaster of the genome. International Journal of Radiation Biology, 2001, 77, 1007-1021.	1.8	287
3	Biology of TiO2â€“oligonucleotide nanocomposites. Nature Materials, 2003, 2, 343-346.	27.5	286
4	DNA sequence determination by hybridization: a strategy for efficient large-scale sequencing. Science, 1993, 260, 1649-1652.	12.6	227
5	X-ray fluorescence microprobe imaging in biology and medicine. Journal of Cellular Biochemistry, 2006, 99, 1489-1502.	2.6	213
6	Nanoparticles for Applications in Cellular Imaging. Nanoscale Research Letters, 2007, 2, 430-41.	5.7	158
7	The Bionanoprobe: hard X-ray fluorescence nanoprobe with cryogenic capabilities. Journal of Synchrotron Radiation, 2014, 21, 66-75.	2.4	151
8	A first-in-human phase 0 clinical study of RNA interferenceâ€“based spherical nucleic acids in patients with recurrent glioblastoma. Science Translational Medicine, 2021, 13, .	12.4	136
9	Endocytosis of titanium dioxide nanoparticles in prostate cancer PC-3M cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2011, 7, 123-130.	3.3	134
10	Intracellular Distribution of TiO2â˜'DNA Oligonucleotide Nanoconjugates Directed to Nucleolus and Mitochondria Indicates Sequence Specificity. Nano Letters, 2007, 7, 596-601.	9.1	116
11	Epidermal Growth Factor Receptor Targeted Nuclear Delivery and High-Resolution Whole Cell X-ray Imaging of Fe₃O₄@TiO₂ Nanoparticles in Cancer Cells. ACS Nano, 2013, 7, 10502-10517.	14.6	113
12	DNAâ˜'TiO2 Nanoconjugates Labeled with Magnetic Resonance Contrast Agents. Journal of the American Chemical Society, 2007, 129, 15760-15761.	13.7	105
13	Nanocarriers Enhance Doxorubicin Uptake in Drug-Resistant Ovarian Cancer Cells. Cancer Research, 2012, 72, 769-778.	0.9	97
14	Labeling TiO₂ Nanoparticles with Dyes for Optical Fluorescence Microscopy and Determination of TiO₂â€“DNA Nanoconjugate Stability. Small, 2009, 5, 1318-1325.	10.0	95
15	Gene expression analysis of frontotemporal lobar degeneration of the motor neuron disease type with ubiquitinated inclusions. Acta Neuropathologica, 2007, 114, 81-94.	7.7	89
16	DNA sequencing by hybridization: 100 bases read by a non-gel-based method.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 10089-10093.	7.1	85
17	Preserving elemental content in adherent mammalian cells for analysis by synchrotronâ€based xâ€ray fluorescence microscopy. Journal of Microscopy, 2017, 265, 81-93.	1.8	83
18	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. Radiology, 2009, 253, 399-406.	7.3	76

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19	An iron-dependent and transferrin-mediated cellular uptake pathway for plutonium. Nature Chemical Biology, 2011, 7, 560-565.	8.0	76
20	Response of heterogeneous ribonuclear proteins (hnRNP) to ionising radiation and their involvement in DNA damage repair. International Journal of Radiation Biology, 2009, 85, 643-655.	1.8	73
21	Effect of Transcatheter Arterial Embolization on Levels of Hypoxia-inducible Factor-1Î± in Rabbit VX2 Liver Tumors. Journal of Vascular and Interventional Radiology, 2007, 18, 639-645.	0.5	61
22	Peptideâ€mediated cancer targeting of nanoconjugates. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2011, 3, 269-281.	6.1	55
23	Comparison of Two Different Methods for Inoculating VX2 Tumors in Rabbit Livers and Hind Limbs. Journal of Vascular and Interventional Radiology, 2008, 19, 931-936.	0.5	54
24	Direct isolation of flavonoids from plants using ultraâ€small anatase <scp>TiO</scp>₂ nanoparticles. Plant Journal, 2014, 77, 443-453.	5.7	53
25	In Vivo Diffusion-Weighted Imaging of Liver Tumor Necrosis in the VX2 Rabbit Model at 1.5 Tesla. Investigative Radiology, 2006, 41, 410-414.	6.2	49
26	Enhanced doxorubicin transport to multidrug resistant breast cancer cells via TiO2 nanocarriers. RSC Advances, 2013, 3, 20855.	3.6	47
27	Gadolinium-conjugated TiO2-DNA oligonucleotide nanoconjugates show prolonged intracellular retention period and T1-weighted contrast enhancement in magnetic resonance images. Nanomedicine: Nanotechnology, Biology, and Medicine, 2008, 4, 201-207.	3.3	46
28	Liver Tumors: Monitoring Embolization in Rabbits with VX2 Tumorsâ€”Transcatheter Intraarterial First-Pass Perfusion MR Imaging. Radiology, 2007, 245, 130-139.	7.3	45
29	Methods for assessing DNA hybridization of peptide nucleic acidâ€“titanium dioxide nanoconjugates. Analytical Biochemistry, 2008, 383, 226-235.	2.4	40
30	The Transition from Metal-Based to Metal-Free Contrast Agents for T₁ Magnetic Resonance Imaging Enhancement. Bioconjugate Chemistry, 2019, 30, 2264-2286.	3.6	40
31	The Increase in Animal Mortality Risk following Exposure to Sparsely Ionizing Radiation Is Not Linear Quadratic with Dose. PLoS ONE, 2015, 10, e0140989.	2.5	37
32	Combination strategies for repair, plasticity, and regeneration using regulation of gene expression during the chronic phase after spinal cord injury. Synapse, 2011, 65, 1255-1281.	1.2	36
33	Gene Expression Profiles in Mouse Liver after Long-Term Low-Dose-Rate Irradiation with Gamma Rays. Radiation Research, 2010, 174, 611.	1.5	33
34	Overcoming challenges in human saliva gene expression measurements. Scientific Reports, 2020, 10, 11147.	3.3	33
35	Radiosensitization and Nanoparticles. Cancer Treatment and Research, 2015, 166, 151-171.	0.5	32
36	Intracellular in situ labeling of TiO2 nanoparticles for fluorescence microscopy detection. Nano Research, 2018, 11, 464-476.	10.4	30

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37	Feasibility of Blood Oxygenation Levelâ€“dependent MR Imaging to Monitor Hepatic Transcatheter Arterial Embolization in Rabbits. Journal of Vascular and Interventional Radiology, 2005, 16, 1523-1528.	0.5	29
38	Future Directions of Intraoperative Radiation Therapy: A Brief Review. Frontiers in Oncology, 2017, 7, 300.	2.8	28
39	X-Ray Fluorescence Microscopy for Investigation of Archival Tissues. Health Physics, 2012, 103, 181-186.	0.5	25
40	PAST AND FUTURE WORK ON RADIOBIOLOGY MEGA-STUDIES: A CASE STUDY AT ARGONNE NATIONAL LABORATORY. Health Physics, 2011, 100, 613-621.	0.5	23
41	Clone Clustering by Hybridization. Genomics, 1995, 27, 83-89.	2.9	22
42	Discovering distinct genes represented in 29,570 clones from infant brain cDNA libraries by applying sequencing by hybridization methodology.. Genome Research, 1996, 6, 132-141.	5.5	21
43	Comparison between intravenous and intraarterial contrast injections for dynamic 3D MRI of liver tumors in the VX2 rabbit model. Journal of Magnetic Resonance Imaging, 2006, 24, 242-247.	3.4	21
44	Superparamagnetic iron oxide nanoparticle-labeled cells as an effective vehicle for tracking the GFP gene marker using magnetic resonance imaging. Cytotherapy, 2009, 11, 43-51.	0.7	21
45	Negatively Charged Metal Oxide Nanoparticles Interact with the 20S Proteasome and Differentially Modulate Its Biologic Functional Effects. ACS Nano, 2013, 7, 7759-7772.	14.6	21
46	TITANIUM DIOXIDE NANOPARTICLES ASSEMBLED BY DNA MOLECULES HYBRIDIZATION AND LOADING OF DNA INTERACTING PROTEINS. Nano, 2008, 03, 27-36.	1.0	20
47	DNA Sequence Recognition by Hybridization to Short Oligomers: Experimental Verification of the Method on theE. coliGenome. Genomics, 1996, 37, 77-86.	2.9	19
48	Plutonium uptake and distribution in mammalian cells: Molecular vs. polymeric plutonium. International Journal of Radiation Biology, 2011, 87, 1023-1032.	1.8	18
49	A proteomic approach to identification of plutonium-binding proteins in mammalian cells. Journal of Proteomics, 2012, 75, 1505-1514.	2.4	18
50	Rabbit VX2 Tumors as an Animal Model of Uterine Fibroids and for Uterine Artery Embolization. Journal of Vascular and Interventional Radiology, 2007, 18, 411-418.	0.5	17
51	Incidence of tissue toxicities in gamma ray and fission neutron-exposed mice treated with Amifostine. International Journal of Radiation Biology, 2008, 84, 623-634.	1.8	17
52	Funding for radiation research: past, present and future. International Journal of Radiation Biology, 2019, 95, 816-840.	1.8	17
53	Tissue and data archives from irradiation experiments conducted at Argonne National Laboratory over a period of four decades. Radiation and Environmental Biophysics, 2010, 49, 317-324.	1.4	16
54	Fast-scanning high-flux microprobe for biological X-ray fluorescence microscopy and microXAS. Journal of Synchrotron Radiation, 2010, 17, 522-529.	2.4	16

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55	Neuroprotective Role of Selected Antioxidant Agents in Preventing Cisplatin-Induced Damage of Human Neurons In Vitro. Cellular and Molecular Neurobiology, 2019, 39, 619-636.	3.3	16
56	Direct Determination of the Intracellular Oxidation State of Plutonium. Inorganic Chemistry, 2011, 50, 7591-7597.	4.0	15
57	Radiation databases and archives â€“ examples and comparisons. International Journal of Radiation Biology, 2019, 95, 1378-1389.	1.8	14
58	Insights into platinum-induced peripheral neuropathyâ€“current perspective. Neural Regeneration Research, 2020, 15, 1623.	3.0	14
59	The Bionanoprobe: Synchrotron-Based Hard X-ray Fluorescence Microscopy for 2D/3D Trace Element Mapping. Microscopy Today, 2015, 23, 26-29.	0.3	13
60	Biological basis of radiation protection needs rejuvenation. International Journal of Radiation Biology, 2017, 93, 1056-1063.	1.8	13
61	Effects of low dose and low dose rate low linear energy transfer radiation on animals â€“ review of recent studies relevant for carcinogenesis. International Journal of Radiation Biology, 2021, 97, 757-768.	1.8	13
62	Biological applications of X-ray microprobes. International Journal of Radiation Biology, 2009, 85, 710-713.	1.8	12
63	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.	2.6	11
64	Cytotoxicity and DNA cleavage with coreâ€“shell nanocomposites functionalized by a KH domain DNA binding peptide. Nanoscale, 2013, 5, 11394.	5.6	11
65	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.	2.5	11
66	Variant chromosomal arrangement of adult Î²-globin genes in rat. Gene, 1989, 79, 139-150.	2.2	10
67	Structural and elemental changes in glioblastoma cells in situ: complementary imaging with high resolution visible light- and X-ray microscopy. Analyst, The, 2017, 142, 356-365.	3.5	10
68	Activation of DNA damage repair factors in HPV positive oropharyngeal cancers. Virology, 2020, 547, 27-34.	2.4	10
69	Absence ofKu70Gene Obliterates X-Ray-InducedlacZMutagenesis of Small Deletions in Mouse Tissues. Radiation Research, 2008, 170, 216-223.	1.5	9
70	Reflections on Basic Science Studies Involving Low Doses of Ionizing Radiation. Health Physics, 2018, 115, 623-627.	0.5	9
71	Development of Fe3O4 coreâ€“TiO2 shell nanocomposites and nanoconjugates as a foundation for neuroblastoma radiosensitization. Cancer Nanotechnology, 2021, 12, 12.	3.7	9
72	Elemental Zn and its Binding Protein Zinc-Î±2-Glycoprotein are Elevated in HPV-Positive Oropharyngeal Squamous Cell Carcinoma. Scientific Reports, 2019, 9, 16965.	3.3	8

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73	Optimization-based simultaneous alignment and reconstruction in multi-element tomography. Optics Letters, 2019, 44, 4331.	3.3	8
74	Real-time MRI Monitoring of Transcatheter Hepatic Artery Contrast Agent Delivery in Rabbits1. Academic Radiology, 2005, 12, 1342-1350.	2.5	7
75	Fast low-angle positive contrast steady-state free precession imaging of USPIO-labeled macrophages: theory and in vitro experiment. Magnetic Resonance Imaging, 2009, 27, 961-969.	1.8	7
76	Submicron hard X-ray fluorescence imaging of synthetic elements. Analytica Chimica Acta, 2012, 722, 21-28.	5.4	7
77	Distribution of Iron Oxide Core-Titanium Dioxide Shell Nanoparticles in VX2 Tumor Bearing Rabbits Introduced by Two Different Delivery Modalities. Nanomaterials, 2016, 6, 143.	4.1	7
78	Analyses of cancer incidence and other morbidities in gamma irradiated B6CF1 mice. PLoS ONE, 2020, 15, e0231510.	2.5	7
79	p53 Gene deletions in paraffin-preserved lymphoid tumors from irradiated mice. Leukemia Research, 2000, 24, 511-517.	0.8	6
80	Comparing radiation toxicities across species: An examination of radiation effects inMus musculusandPeromyscus leucopus. International Journal of Radiation Biology, 2013, 89, 391-400.	1.8	6
81	Analyses of cancer incidence and other morbidities in neutron irradiated B6CF1 mice. PLoS ONE, 2021, 16, e0231511.	2.5	6
82	Paramagnetic Mn₈Fe₄-co-Polystyrene Nanobeads as a Potential T₁â€“T₂ Multimodal Magnetic Resonance Imaging Contrast Agent with In Vivo Studies. ACS Applied Materials & Interfaces, 2021, 13, 39042-39054.	8.0	6
83	A Multimodal Nanocomposite for Biomedical Imaging. AIP Conference Proceedings, 2011, 1365, 379.	0.4	5
84	2D/3D cryo x-ray fluorescence imaging at the bionanoprobe at the advanced photon source. AIP Conference Proceedings, 2016, , .	0.4	5
85	Protein Binding Effects of Dopamine Coated Titanium Dioxide Shell Nanoparticles. Precision Nanomedicine, 2019, 2, 393-438.	0.8	5
86	The enduring legacy of Marie Curie: impacts of radium in 21st century radiological and medical sciences. International Journal of Radiation Biology, 2022, 98, 267-275.	1.8	5
87	Regulation of thymus PCNA expression is altered in radiation-sensitive wasted mice. Carcinogenesis, 1996, 17, 2357-2365.	2.8	4
88	Interrogation of EGFR-Targeted Uptake of TiO[sub 2] Nanoconjugates by X-ray Fluorescence Microscopy. , 2011, 1365, 423-426.		4
89	Mapping the subcellular localization of Fe₃O₄@TiO₂ nanoparticles by X-ray Fluorescence Microscopy. Journal of Physics: Conference Series, 2013, 463, 012020.	0.4	4
90	Development of Multi-Scale X-ray Fluorescence Tomography for Examination of Nanocomposite-Treated Biological Samples. Cancers, 2021, 13, 4497.	3.7	4

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91	Intracellular localization of titanium dioxide-biomolecule nanocomposites. European Physical Journal Special Topics, 2003, 104, 317-319.	0.2	4
92	Mechanisms of radiation-induced gene responses. Stem Cells, 2009, 15, 15-25.	3.2	3
93	A presumed B6 strain-specific p53 polymorphism is confined to a B6 cell line and is likely to represent a facilitating mutation. Mammalian Genome, 1994, 5, 106-107.	2.2	2
94	A reliable workflow for improving nanoscale X-ray fluorescence tomographic analysis on nanoparticle-treated HeLa cells. Metallomics, 2022, 14, .	2.4	2
95	Deficient PCNA expression and radiation sensitivity. International Congress Series, 2002, 1236, 249-253.	0.2	1
96	Use of X-Ray Fluorescence Microscopy for Studies on Research Models of Hepatocellular Carcinoma. Frontiers in Public Health, 2021, 9, 711506.	2.7	1
97	Abstract 1965: Evaluating the use of Fe3O4@TiO2 nanoparticles and nanoconjugates with a HPV 18 E2 peptide as a potential therapy for HPV containing cancer cells. , 2012, , .		1
98	Abstract 1949: Receptor mediated delivery of therapeutic Fe3O4 core TiO2 shell nanoparticles. , 2012, , .		1
99	209 The role of proliferating cell nuclear antigen (PCNA) protein in radiation-mediated cleavage of oligonucleotides by titanium dioxide â€" DNA nanocomposites in vitro. Radiotherapy and Oncology, 2006, 78, S73.	0.6	0
100	210 Development of titanium dioxide-DNA nanocomposites for intracellular delivery and radiation-mediated dna scission. Radiotherapy and Oncology, 2006, 78, S73-S74.	0.6	0
101	232 Proliferating cell nuclear antigene (PCNA)-protein induction in lymphoid tissues of radioensitive â€œwastedâ€•mice. Radiotherapy and Oncology, 2006, 78, S82.	0.6	0
102	2633. International Journal of Radiation Oncology Biology Physics, 2006, 66, S562.	0.8	0
103	2684. International Journal of Radiation Oncology Biology Physics, 2006, 66, S589.	0.8	0
104	2695. International Journal of Radiation Oncology Biology Physics, 2006, 66, S595-S596.	0.8	0
105	Lethal and Non-Lethal Toxicity Incidence in Gamma Ray and Neutron Exposed Mice Treated With and Without Amifostine. International Journal of Radiation Oncology Biology Physics, 2007, 69, S617.	0.8	0
106	Sub-100-nm 3D-elemental mapping of frozen-hydrated cells using the bionanoprobe. Proceedings of SPIE, 2013, , .	0.8	0
107	Cryogenic Sample Preparation Preserves Elemental Composition for Correlative Light and X-ray Fluorescence Microscopy. Microscopy and Microanalysis, 2015, 21, 877-878.	0.4	0
108	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

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109	Expression of c-Myc oncogene in sinonasal cancer.. Journal of Clinical Oncology, 2014, 32, e22176-e22176.	1.6	0
110	Abstract 4913: Development of Fe3O4@TiO2 core-shell nanocomposites as radiosensitizers. , 2014, , .		0
111	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
112	Abstract 456: WR1065, the active metabolite of amifostine modulates chemistry and biology of cisplatin. , 2018, , .		0
113	Effects of fluorescent dye coating of metal oxide nanoparticles on DNA scission. The Journal of the Robert H Lurie Cancer Center of Northwestern University, 2009, 13, 72-76.	0.0	0
114	Analyses of cancer incidence and other morbidities in gamma irradiated B6CF1 mice. , 2020, 15, e0231510.		0
115	Analyses of cancer incidence and other morbidities in gamma irradiated B6CF1 mice. , 2020, 15, e0231510.		0
116	Analyses of cancer incidence and other morbidities in gamma irradiated B6CF1 mice. , 2020, 15, e0231510.		0
117	Analyses of cancer incidence and other morbidities in gamma irradiated B6CF1 mice. , 2020, 15, e0231510.		0