

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	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
2	Proliferating cell nuclear antigen (PCNA): ringmaster of the genome. <i>International Journal of Radiation Biology</i> , 2001, 77, 1007-1021.	1.0	287
3	Biology of TiO ₂ oligonucleotide nanocomposites. <i>Nature Materials</i> , 2003, 2, 343-346.	13.3	286
4	DNA sequence determination by hybridization: a strategy for efficient large-scale sequencing. <i>Science</i> , 1993, 260, 1649-1652.	6.0	227
5	X-ray fluorescence microprobe imaging in biology and medicine. <i>Journal of Cellular Biochemistry</i> , 2006, 99, 1489-1502.	1.2	213
6	Nanoparticles for Applications in Cellular Imaging. <i>Nanoscale Research Letters</i> , 2007, 2, 430-41.	3.1	158
7	The Bionanoprobe: hard X-ray fluorescence nanoprobe with cryogenic capabilities. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 66-75.	1.0	151
8	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
9	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
10	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
11	Epidermal Growth Factor Receptor Targeted Nuclear Delivery and High-Resolution Whole Cell X-ray Imaging of Fe ₃ O ₄ @TiO ₂ Nanoparticles in Cancer Cells. <i>ACS Nano</i> , 2013, 7, 10502-10517.	7.3	113
12	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
13	Nanocarriers Enhance Doxorubicin Uptake in Drug-Resistant Ovarian Cancer Cells. <i>Cancer Research</i> , 2012, 72, 769-778.	0.4	97
14	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
15	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
16	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
17	Preserving elemental content in adherent mammalian cells for analysis by synchrotron-based x-ray fluorescence microscopy. <i>Journal of Microscopy</i> , 2017, 265, 81-93.	0.8	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. <i>Radiology</i> , 2009, 253, 399-406.	3.6	76

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19	An iron-dependent and transferrin-mediated cellular uptake pathway for plutonium. <i>Nature Chemical Biology</i> , 2011, 7, 560-565.	3.9	76
20	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
21	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
22	Peptide-mediated cancer targeting of nanoconjugates. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2011, 3, 269-281.	3.3	55
23	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
24	Direct isolation of flavonoids from plants using ultra-small anatase TiO ₂ nanoparticles. <i>Plant Journal</i> , 2014, 77, 443-453.	2.8	53
25	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
26	Enhanced doxorubicin transport to multidrug resistant breast cancer cells via TiO ₂ nanocarriers. <i>RSC Advances</i> , 2013, 3, 20855.	1.7	47
27	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
28	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
29	Methods for assessing DNA hybridization of peptide nucleic acid–titanium dioxide nanoconjugates. <i>Analytical Biochemistry</i> , 2008, 383, 226-235.	1.1	40
30	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
31	The Increase in Animal Mortality Risk following Exposure to Sparsely Ionizing Radiation Is Not Linear Quadratic with Dose. <i>PLoS ONE</i> , 2015, 10, e0140989.	1.1	37
32	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
33	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
34	Overcoming challenges in human saliva gene expression measurements. <i>Scientific Reports</i> , 2020, 10, 11147.	1.6	33
35	Radiosensitization and Nanoparticles. <i>Cancer Treatment and Research</i> , 2015, 166, 151-171.	0.2	32
36	Intracellular in situ labeling of TiO ₂ nanoparticles for fluorescence microscopy detection. <i>Nano Research</i> , 2018, 11, 464-476.	5.8	30

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37	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
38	Future Directions of Intraoperative Radiation Therapy: A Brief Review. <i>Frontiers in Oncology</i> , 2017, 7, 300.	1.3	28
39	X-Ray Fluorescence Microscopy for Investigation of Archival Tissues. <i>Health Physics</i> , 2012, 103, 181-186.	0.3	25
40	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
41	Clone Clustering by Hybridization. <i>Genomics</i> , 1995, 27, 83-89.	1.3	22
42	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
43	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
44	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
45	Negatively Charged Metal Oxide Nanoparticles Interact with the 20S Proteasome and Differentially Modulate Its Biologic Functional Effects. <i>ACS Nano</i> , 2013, 7, 7759-7772.	7.3	21
46	TITANIUM DIOXIDE NANOPARTICLES ASSEMBLED BY DNA MOLECULES HYBRIDIZATION AND LOADING OF DNA INTERACTING PROTEINS. <i>Nano</i> , 2008, 03, 27-36.	0.5	20
47	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
48	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
49	A proteomic approach to identification of plutonium-binding proteins in mammalian cells. <i>Journal of Proteomics</i> , 2012, 75, 1505-1514.	1.2	18
50	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
51	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
52	Funding for radiation research: past, present and future. <i>International Journal of Radiation Biology</i> , 2019, 95, 816-840.	1.0	17
53	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
54	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

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55	Neuroprotective Role of Selected Antioxidant Agents in Preventing Cisplatin-Induced Damage of Human Neurons In Vitro. <i>Cellular and Molecular Neurobiology</i> , 2019, 39, 619-636.	1.7	16
56	Direct Determination of the Intracellular Oxidation State of Plutonium. <i>Inorganic Chemistry</i> , 2011, 50, 7591-7597.	1.9	15
57	Radiation databases and archives – examples and comparisons. <i>International Journal of Radiation Biology</i> , 2019, 95, 1378-1389.	1.0	14
58	Insights into platinum-induced peripheral neuropathy – current perspective. <i>Neural Regeneration Research</i> , 2020, 15, 1623.	1.6	14
59	The Bionanoprobe: Synchrotron-Based Hard X-ray Fluorescence Microscopy for 2D/3D Trace Element Mapping. <i>Microscopy Today</i> , 2015, 23, 26-29.	0.2	13
60	Biological basis of radiation protection needs rejuvenation. <i>International Journal of Radiation Biology</i> , 2017, 93, 1056-1063.	1.0	13
61	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
62	Biological applications of X-ray microprobes. <i>International Journal of Radiation Biology</i> , 2009, 85, 710-713.	1.0	12
63	The Effects of Radiation and Dose-Fractionation on Cancer and Non-Tumor Disease Development. <i>International Journal of Environmental Research and Public Health</i> , 2012, 9, 4688-4703.	1.2	11
64	Cytotoxicity and DNA cleavage with core-shell nanocomposites functionalized by a KH domain DNA binding peptide. <i>Nanoscale</i> , 2013, 5, 11394.	2.8	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. <i>PLoS ONE</i> , 2014, 9, e101161.	1.1	11
66	Variant chromosomal arrangement of adult β -globin genes in rat. <i>Gene</i> , 1989, 79, 139-150.	1.0	10
67	Structural and elemental changes in glioblastoma cells <i>in situ</i> : complementary imaging with high resolution visible light- and X-ray microscopy. <i>Analyst</i> , 2017, 142, 356-365.	1.7	10
68	Activation of DNA damage repair factors in HPV positive oropharyngeal cancers. <i>Virology</i> , 2020, 547, 27-34.	1.1	10
69	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
70	Reflections on Basic Science Studies Involving Low Doses of Ionizing Radiation. <i>Health Physics</i> , 2018, 115, 623-627.	0.3	9
71	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
72	Elemental Zn and its Binding Protein Zinc- β -2-Glycoprotein are Elevated in HPV-Positive Oropharyngeal Squamous Cell Carcinoma. <i>Scientific Reports</i> , 2019, 9, 16965.	1.6	8

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73	Optimization-based simultaneous alignment and reconstruction in multi-element tomography. <i>Optics Letters</i> , 2019, 44, 4331.	1.7	8
74	Real-time MRI Monitoring of Transcatheter Hepatic Artery Contrast Agent Delivery in Rabbits. <i>Academic Radiology</i> , 2005, 12, 1342-1350.	1.3	7
75	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
76	Submicron hard X-ray fluorescence imaging of synthetic elements. <i>Analytica Chimica Acta</i> , 2012, 722, 21-28.	2.6	7
77	Distribution of Iron Oxide Core-Titanium Dioxide Shell Nanoparticles in VX2 Tumor Bearing Rabbits Introduced by Two Different Delivery Modalities. <i>Nanomaterials</i> , 2016, 6, 143.	1.9	7
78	Analyses of cancer incidence and other morbidities in gamma irradiated B6CF1 mice. <i>PLoS ONE</i> , 2020, 15, e0231510.	1.1	7
79	p53 Gene deletions in paraffin-preserved lymphoid tumors from irradiated mice. <i>Leukemia Research</i> , 2000, 24, 511-517.	0.4	6
80	Comparing radiation toxicities across species: An examination of radiation effects in <i>Mus musculus</i> and <i>Peromyscus leucopus</i> . <i>International Journal of Radiation Biology</i> , 2013, 89, 391-400.	1.0	6
81	Analyses of cancer incidence and other morbidities in neutron irradiated B6CF1 mice. <i>PLoS ONE</i> , 2021, 16, e0231511.	1.1	6
82	Paramagnetic Mn ⁸ Fe ⁴ -co-Polystyrene Nanobeads as a Potential T ₁ -T ₂ Multimodal Magnetic Resonance Imaging Contrast Agent with In Vivo Studies. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39042-39054.	4.0	6
83	A Multimodal Nanocomposite for Biomedical Imaging. <i>AIP Conference Proceedings</i> , 2011, 1365, 379.	0.3	5
84	2D/3D cryo x-ray fluorescence imaging at the bionanoprobe at the advanced photon source. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	5
85	Protein Binding Effects of Dopamine Coated Titanium Dioxide Shell Nanoparticles. <i>Precision Nanomedicine</i> , 2019, 2, 393-438.	0.4	5
86	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
87	Regulation of thymus PCNA expression is altered in radiation-sensitive wasted mice. <i>Carcinogenesis</i> , 1996, 17, 2357-2365.	1.3	4
88	Interrogation of EGFR-Targeted Uptake of TiO ₂ Nanoconjugates by X-ray Fluorescence Microscopy. , 2011, 1365, 423-426.		4
89	Mapping the subcellular localization of Fe ₃ O ₄ @TiO ₂ nanoparticles by X-ray Fluorescence Microscopy. <i>Journal of Physics: Conference Series</i> , 2013, 463, 012020.	0.3	4
90	Development of Multi-Scale X-ray Fluorescence Tomography for Examination of Nanocomposite-Treated Biological Samples. <i>Cancers</i> , 2021, 13, 4497.	1.7	4

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91	Intracellular localization of titanium dioxide-biomolecule nanocomposites. <i>European Physical Journal Special Topics</i> , 2003, 104, 317-319.	0.2	4
92	Mechanisms of radiation-induced gene responses. <i>Stem Cells</i> , 2009, 15, 15-25.	1.4	3
93	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
94	A reliable workflow for improving nanoscale X-ray fluorescence tomographic analysis on nanoparticle-treated HeLa cells. <i>Metallomics</i> , 2022, 14, .	1.0	2
95	Deficient PCNA expression and radiation sensitivity. <i>International Congress Series</i> , 2002, 1236, 249-253.	0.2	1
96	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
97	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
98	Abstract 1949: Receptor mediated delivery of therapeutic Fe ₃ O ₄ core TiO ₂ shell nanoparticles. , 2012, , .		1
99	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
100	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
101	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
102	2633. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, S562.	0.4	0
103	2684. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, S589.	0.4	0
104	2695. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 66, S595-S596.	0.4	0
105	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
106	Sub-100-nm 3D-elemental mapping of frozen-hydrated cells using the bionanoprobe. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
107	Cryogenic Sample Preparation Preserves Elemental Composition for Correlative Light and X-ray Fluorescence Microscopy. <i>Microscopy and Microanalysis</i> , 2015, 21, 877-878.	0.2	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.	0.8	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