

Hervé Seznec

List of Publications by Year in descending order

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47
papers

1,703
citations

394421

19
h-index

276875

41
g-index

48
all docs

48
docs citations

48
times ranked

1925
citing authors

#	ARTICLE	IF	CITATIONS
1	Friedreich ataxia: the oxidative stress paradox. <i>Human Molecular Genetics</i> , 2005, 14, 463-474.	2.9	205
2	Mice transgenic for the human myotonic dystrophy region with expanded CTG repeats display muscular and brain abnormalities. <i>Human Molecular Genetics</i> , 2001, 10, 2717-2726.	2.9	197
3	Friedreich Ataxia Mouse Models with Progressive Cerebellar and Sensory Ataxia Reveal Autophagic Neurodegeneration in Dorsal Root Ganglia. <i>Journal of Neuroscience</i> , 2004, 24, 1987-1995.	3.6	189
4	Transgenic mice carrying large human genomic sequences with expanded CTG repeat mimic closely the DM CTG repeat intergenerational and somatic instability. <i>Human Molecular Genetics</i> , 2000, 9, 1185-1194.	2.9	140
5	Idebenone delays the onset of cardiac functional alteration without correction of Fe-S enzymes deficit in a mouse model for Friedreich ataxia. <i>Human Molecular Genetics</i> , 2004, 13, 1017-1024.	2.9	128
6	Somatic instability of the CTG repeat in mice transgenic for the myotonic dystrophy region is age dependent but not correlated to the relative intertissue transcription levels and proliferative capacities. <i>Human Molecular Genetics</i> , 1998, 7, 1285-1291.	2.9	70
7	Cobalt distribution in keratinocyte cells indicates nuclear and perinuclear accumulation and interaction with magnesium and zinc homeostasis. <i>Toxicology Letters</i> , 2009, 188, 26-32.	0.8	62
8	Functionalized nanomaterials: their use as contrast agents in bioimaging: mono- and multimodal approaches. <i>Nanotechnology Reviews</i> , 2013, 2, 125-169.	5.8	59
9	Monte Carlo dosimetry for targeted irradiation of individual cells using a microbeam facility. <i>Radiation Protection Dosimetry</i> , 2009, 133, 2-11.	0.8	46
10	Titanium dioxide nanoparticles induced intracellular calcium homeostasis modification in primary human keratinocytes. Towards an <i>in vitro</i> explanation of titanium dioxide nanoparticles toxicity. <i>Nanotoxicology</i> , 2011, 5, 125-139.	3.0	46
11	Live cell imaging of mitochondria following targeted irradiation in situ reveals rapid and highly localized loss of membrane potential. <i>Scientific Reports</i> , 2017, 7, 46684.	3.3	46
12	Monte-Carlo dosimetry on a realistic cell monolayer geometry exposed to alpha particles. <i>Physics in Medicine and Biology</i> , 2012, 57, 2189-2207.	3.0	38
13	Simulating radial dose of ion tracks in liquid water simulated with Geant4-DNA: A comparative study. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 333, 92-98.	1.4	38
14	Monte Carlo simulation of the CENBG microbeam and nanobeam lines with the Geant4 toolkit. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 260, 20-27.	1.4	33
15	<i>In situ</i> quantification of diverse titanium dioxide nanoparticles unveils selective endoplasmic reticulum stress-dependent toxicity. <i>Nanotoxicology</i> , 2017, 11, 134-145.	3.0	32
16	First results obtained using the CENBG nanobeam line: Performances and applications. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 2163-2167.	1.4	29
17	Single Cell <i>In Situ</i> Detection and Quantification of Metal Oxide Nanoparticles Using Multimodal Correlative Microscopy. <i>Analytical Chemistry</i> , 2014, 86, 7311-7319.	6.5	28
18	Fluorescence time-lapse imaging of single cells targeted with a focused scanning charged-particle microbeam. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 325, 27-34.	1.4	25

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19	Advances in microbeam technologies and applications to radiation biology: Table 1.. Radiation Protection Dosimetry, 2015, 166, 182-187.	0.8	21
20	A comparison of cellular irradiation techniques with alpha particles using the Geant4 Monte Carlo simulation toolkit. Radiation Protection Dosimetry, 2006, 122, 327-329.	0.8	19
21	Geant4 simulation of the new CENBG micro and nanoprobe facility. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 738-742.	1.4	19
22	An interdisciplinary approach to investigate the impact of cobalt in human keratinocyte cell line. Biochimie, 2006, 88, 1619-1629.	2.6	18
23	Simulating the Impact of the Natural Radiation Background on Bacterial Systems: Implications for Very Low Radiation Biological Experiments. PLoS ONE, 2016, 11, e0166364.	2.5	18
24	Comparison of experimental proton-induced fluorescence spectra for a selection of thin high-Z samples with Geant4 Monte Carlo simulations. Nuclear Instruments & Methods in Physics Research B, 2015, 358, 210-222.	1.4	16
25	Three-dimensional densitometry imaging of diatom cells using STIM tomography. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 653-659.	1.4	15
26	Development and applications of STIM- and PIXE-tomography: A review. Nuclear Instruments & Methods in Physics Research B, 2015, 363, 55-60.	1.4	14
27	Reconstruction of 3D ion beam micro-tomography data for applications in Cell Biology. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2107-2112.	1.4	13
28	In situ titanium dioxide nanoparticles quantitative microscopy in cells and in C. elegans using nuclear microprobe analysis. Nuclear Instruments & Methods in Physics Research B, 2014, 341, 58-64.	1.4	13
29	Remote imaging of single cell 3D morphology with ultrafast coherent phonons and their resonance harmonics. Scientific Reports, 2019, 9, 6409.	3.3	13
30	Limitations in a frataxin knockdown cell model for Friedreich ataxia in a high-throughput drug screen. BMC Neurology, 2009, 9, 46.	1.8	12
31	A comparison of quantitative reconstruction techniques for PIXE-tomography analysis applied to biological samples. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 248-252.	1.4	12
32	Quantitative reconstruction of PIXE-tomography data for thin samples using GUPIX X-ray emission yields. Nuclear Instruments & Methods in Physics Research B, 2015, 348, 92-99.	1.4	12
33	Beyond filtered backprojection: A reconstruction software package for ion beam microtomography data. Nuclear Instruments & Methods in Physics Research B, 2013, 295, 42-49.	1.4	11
34	Single α -particle irradiation permits real-time visualization of RNF8 accumulation at DNA damaged sites. Scientific Reports, 2017, 7, 41764.	3.3	9
35	Technical developments for computed tomography on the CENBG nanobeam line. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2206-2209.	1.4	8
36	Monte-Carlo dosimetry and real-time imaging of targeted irradiation consequences in 2-cell stage Caenorhabditis elegans embryo. Scientific Reports, 2019, 9, 10568.	3.3	7

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37	The skin barrier function: a microPIXE study. X-Ray Spectrometry, 2009, 38, 132-137.	1.4	6
38	Cell micro-irradiation with MeV protons counted by an ultra-thin diamond membrane. Applied Physics Letters, 2017, 111, .	3.3	6
39	Changes in intra-nuclear mechanics in response to DNA damaging agents revealed by time-domain Brillouin micro-spectroscopy. Photoacoustics, 2022, 27, 100385.	7.8	6
40	An ImageJ plugin for ion beam imaging and data processing at AIFIRA facility. Nuclear Instruments & Methods in Physics Research B, 2015, 348, 62-67.	1.4	5
41	A Geant4 simulation for three-dimensional proton imaging of microscopic samples. Physica Medica, 2019, 65, 172-180.	0.7	5
42	An implementation of the NiftyRec medical imaging library for PIXE-tomography reconstruction. Nuclear Instruments & Methods in Physics Research B, 2017, 404, 131-139.	1.4	4
43	Multimodal correlative microscopy for in situ detection and quantification of chemical elements in biological specimens. Applications to nanotoxicology. Journal of Chemical Biology, 2015, 8, 159-167.	2.2	2
44	In Situ&/em> Detection and Single Cell Quantification of Metal Oxide Nanoparticles Using Nuclear Microprobe Analysis. Journal of Visualized Experiments, 2018, , .	0.3	1
45	A Geant4 simulation of X-ray emission for three-dimensional proton imaging of microscopic samples. Physica Medica, 2022, 94, 85-93.	0.7	1
46	Implementation of the EPICS2017 database for photons in Geant4. Physica Medica, 2022, 95, 94-115.	0.7	1
47	Microdosimetry in high-resolution cellular phantoms using the very low energy electromagnetic extension of the Geant4 toolkit. , 2007, , .		0