

Helene Elleaume

List of Publications by Year in descending order

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98
papers

2,389
citations

172207

29
h-index

223531

46
g-index

101
all docs

101
docs citations

101
times ranked

1950
citing authors

#	ARTICLE	IF	CITATIONS
1	Cure of Fisher Rats Bearing Radioresistant F98 Glioma Treated with cis-Platinum and Irradiated with Monochromatic Synchrotron X-Rays. <i>Cancer Research</i> , 2004, 64, 2317-2323.	0.4	153
2	Synchrotron radiation-based experimental determination of the optimal energy for cell radiotoxicity enhancement following photoelectric effect on stable iodinated compounds. <i>British Journal of Cancer</i> , 2004, 91, 544-551.	2.9	104
3	Instrumentation of the ESRF medical imaging facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1999, 428, 513-527.	0.7	97
4	Photoactivation of gold nanoparticles for glioma treatment. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 1089-1097.	1.7	95
5	First human transvenous coronary angiography at the European Synchrotron Radiation Facility. <i>Physics in Medicine and Biology</i> , 2000, 45, L39-L43.	1.6	87
6	Prolonged survival of Fischer rats bearing F98 glioma after iodine-enhanced synchrotron stereotactic radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 64, 603-611.	0.4	85
7	First operation of the medical research facility at the NSLS for coronary angiography. <i>Review of Scientific Instruments</i> , 1992, 63, 625-628.	0.6	79
8	Fixed-exit monochromator for computed tomography with synchrotron radiation at energies 18-90 keV. <i>Journal of Synchrotron Radiation</i> , 2000, 7, 340-347.	1.0	72
9	Performance of computed tomography for contrast agent concentration measurements with monochromatic x-ray beams: comparison of K-edge versus temporal subtraction. <i>Physics in Medicine and Biology</i> , 2002, 47, 3369-3385.	1.6	66
10	Enhanced Survival and Cure of F98 Glioma-Bearing Rats following Intracerebral Delivery of Carboplatin in Combination with Photon Irradiation. <i>Clinical Cancer Research</i> , 2007, 13, 5195-5201.	3.2	65
11	Synchrotron radiation therapy of malignant brain glioma loaded with an iodinated contrast agent: First trial on rats bearing F98 gliomas. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003, 57, 1413-1426.	0.4	62
12	Gadolinium nanoparticles and contrast agent as radiation sensitizers. <i>Physics in Medicine and Biology</i> , 2015, 60, 4449-4464.	1.6	62
13	Preparation, Biodistribution and Neurotoxicity of Liposomal Cisplatin following Convection Enhanced Delivery in Normal and F98 Glioma Bearing Rats. <i>PLoS ONE</i> , 2012, 7, e48752.	1.1	53
14	Efficacy of intracerebral delivery of cisplatin in combination with photon irradiation for treatment of brain tumors. <i>Journal of Neuro-Oncology</i> , 2010, 98, 287-295.	1.4	51
15	Monochromatic Minibeams Radiotherapy: From Healthy Tissue-Sparing Effect Studies Toward First Experimental Glioma Bearing Rats Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 82, e693-e700.	0.4	51
16	Absolute Cerebral Blood Volume and Blood Flow Measurements Based on Synchrotron Radiation Quantitative Computed Tomography. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 499-512.	2.4	47
17	Monte Carlo dosimetry for synchrotron stereotactic radiotherapy of brain tumours. <i>Physics in Medicine and Biology</i> , 2005, 50, 4841-4851.	1.6	46
18	Polymer gel dosimetry for synchrotron stereotactic radiotherapy and iodine dose-enhancement measurements. <i>Physics in Medicine and Biology</i> , 2007, 52, 4881-4892.	1.6	45

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19	Dosimetry protocol for the forthcoming clinical trials in synchrotron stereotactic radiation therapy (SSRT). <i>Medical Physics</i> , 2011, 38, 1709-1717.	1.6	42
20	Convection enhanced delivery of carboplatin in combination with radiotherapy for the treatment of brain tumors. <i>Journal of Neuro-Oncology</i> , 2011, 101, 379-390.	1.4	41
21	Comparison of synchrotron radiation angiography with conventional angiography for the diagnosis of in-stent restenosis after percutaneous transluminal coronary angioplasty. <i>European Heart Journal</i> , 2005, 26, 1284-1291.	1.0	40
22	Efficacy of Intracerebral Delivery of Carboplatin in Combination With Photon Irradiation for Treatment of F98 Glioma-Bearing Rats. <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 73, 530-536.	0.4	40
23	K-edge subtraction synchrotron X-ray imaging in bio-medical research. <i>Physica Medica</i> , 2018, 49, 58-76.	0.4	40
24	Enhanced delivery of iodine for synchrotron stereotactic radiotherapy by means of intracarotid injection and blood-brain barrier disruption: Quantitative iodine biodistribution studies and associated dosimetry. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005, 61, 1173-1182.	0.4	39
25	Synchrotron photoactivation of cisplatin elicits an extra number of DNA breaks that stimulate RAD51-mediated repair pathways. <i>Cancer Research</i> , 2003, 63, 3221-7.	0.4	38
26	Radiation Dose Enhancement Is a Potent Radiotherapeutic Effect of Rare-Earth Composite Nanoscintillators in Preclinical Models of Glioblastoma. <i>Advanced Science</i> , 2020, 7, 2001675.	5.6	36
27	The radiotherapy clinical trials projects at the ESRF: Technical aspects. <i>European Journal of Radiology</i> , 2008, 68, S147-S150.	1.2	34
28	Comparison of gadolinium nanoparticles and molecular contrast agents for radiation therapy enhancement. <i>Medical Physics</i> , 2017, 44, 5949-5960.	1.6	34
29	High-Resolution Blood-Brain Barrier Permeability and Blood Volume Imaging Using Quantitative Synchrotron Radiation Computed Tomography: Study on an F98 Rat Brain Glioma. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 145-153.	2.4	31
30	Surface functionalization of gold nanoclusters with arginine: a trade-off between microtumor uptake and radiotherapy enhancement. <i>Nanoscale</i> , 2020, 12, 6959-6963.	2.8	30
31	Synchrotron stereotactic radiotherapy: dosimetry by Fricke gel and Monte Carlo simulations. <i>Physics in Medicine and Biology</i> , 2004, 49, 5135-5144.	1.6	29
32	The ThomX ICS source. <i>Physics Open</i> , 2020, 5, 100051.	0.7	27
33	Enhanced Radio Sensitivity with Iodinated Contrast Agents Using Monochromatic Synchrotron X-Rays on Human Cancerous Cells. <i>Academic Radiology</i> , 2002, 9, S540-S543.	1.3	26
34	In Vivo Measurement of Gadolinium Concentration in a Rat Glioma Model by Monochromatic Quantitative Computed Tomography. <i>Investigative Radiology</i> , 2004, 39, 385-393.	3.5	26
35	K-edge digital subtraction imaging with dichromatic x-ray sources: SNR and dose studies. <i>Physics in Medicine and Biology</i> , 2006, 51, 4311-4328.	1.6	25
36	Quantitative analysis of synchrotron radiation intravenous angiographic images. <i>Physics in Medicine and Biology</i> , 2005, 50, 725-740.	1.6	24

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37	Heavy element enhanced synchrotron stereotactic radiotherapy as a promising brain tumour treatment. <i>Physica Medica</i> , 2008, 24, 92-97.	0.4	24
38	Intracerebral delivery of 5-iodo-2-deoxyuridine in combination with synchrotron stereotactic radiation for the therapy of the F98 glioma. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 573-581.	1.0	24
39	Treatment plans optimization for contrast-enhanced synchrotron stereotactic radiotherapy. <i>Medical Physics</i> , 2010, 37, 2445-2456.	1.6	24
40	Biological equivalent dose studies for dose escalation in the stereotactic synchrotron radiation therapy clinical trials. <i>Medical Physics</i> , 2009, 36, 725-733.	1.6	23
41	Unexpected Benefits of Multiport Synchrotron Microbeam Radiation Therapy for Brain Tumors. <i>Cancers</i> , 2021, 13, 936.	1.7	21
42	Feasibility of synchrotron radiation computed tomography on rats bearing glioma after iodine or gadolinium injection. <i>European Radiology</i> , 2000, 10, 1487-1492.	2.3	20
43	Convection-Enhanced Delivery of an Iodine Tracer Into Rat Brain for Synchrotron Stereotactic Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007, 68, 943-951.	0.4	18
44	Intracerebral delivery of Carboplatin in combination with either 6 MV Photons or monoenergetic synchrotron X-rays are equally efficacious for treatment of the F98 rat glioma. <i>Journal of Experimental and Clinical Cancer Research</i> , 2012, 31, 78.	3.5	17
45	Significant dose reduction using synchrotron radiation computed tomography: first clinical case and application to high resolution CT exams. <i>Scientific Reports</i> , 2018, 8, 12491.	1.6	17
46	Photodynamic Diagnosis and Therapy for Peritoneal Carcinomatosis: Emerging Perspectives. <i>Cancers</i> , 2020, 12, 2491.	1.7	17
47	Monochromatic computed tomography of the human brain using synchrotron X-rays: technical feasibility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1992, 319, 305-310.	0.7	15
48	Coronary Angiography with Synchrotron X-Ray Source on Pigs after Iodine or Gadolinium Intravenous Injection. <i>Academic Radiology</i> , 2002, 9, S92-S97.	1.3	14
49	Performance of the K-edge digital subtraction angiography imaging system at the European synchrotron radiation facility. <i>Radiation Protection Dosimetry</i> , 2005, 117, 44-49.	0.4	14
50	QUANTITATIVE FUNCTIONAL IMAGING AND KINETIC STUDIES WITH HIGH-CONTRAST AGENTS USING SYNCHROTRON RADIATION COMPUTED TOMOGRAPHY. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2009, 36, 95-106.	0.9	13
51	Removal of harmonic artifacts from synchrotron radiation coronary angiograms. <i>IEEE Transactions on Nuclear Science</i> , 1992, 39, 1431-1437.	1.2	12
52	Radiation therapy combined with intracerebral convection-enhanced delivery of cisplatin or carboplatin for treatment of the F98 rat glioma. <i>Journal of Neuro-Oncology</i> , 2020, 149, 193-208.	1.4	12
53	Normoxic polyacrylamide gel doped with iodine: Response versus X-ray energy. <i>European Journal of Radiology</i> , 2008, 68, S118-S120.	1.2	11
54	A Hybrid Approach for Fast Simulation of Dose Deposition in Stereotactic Synchrotron Radiotherapy. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 1008-1017.	1.2	11

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55	Photon activation therapy of RG2 glioma carrying Fischer rats using stable thallium and monochromatic synchrotron radiation. <i>Physics in Medicine and Biology</i> , 2012, 57, 8377-8391.	1.6	11
56	Simulation of dose deposition in stereotactic synchrotron radiation therapy: a fast approach combining Monte Carlo and deterministic algorithms. <i>Physics in Medicine and Biology</i> , 2009, 54, 4671-4685.	1.6	10
57	In vivopink-beam imaging and fast alignment procedure for rat brain tumor radiation therapy. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 339-343.	1.0	10
58	Image quality evaluation of the angiography imaging system at the European synchrotron radiation facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 510, 45-50.	0.7	9
59	Sensitivity variation of doped Fricke gel irradiated with monochromatic synchrotron X rays between 33.5 and 80 keV. <i>Radiation Protection Dosimetry</i> , 2005, 117, 425-431.	0.4	9
60	Comparison of intracerebral delivery of carboplatin and photon irradiation with an optimized regimen for boron neutron capture therapy of the F98 rat glioma. <i>Applied Radiation and Isotopes</i> , 2011, 69, 1813-1816.	0.7	9
61	Synchrotron Stereotactic Radiation Therapy: A Report on Phase 1/2 Clinical Trial Achievements, Ongoing Developments, and Long-Term Prospects. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 96, E624-E625.	0.4	9
62	Monochromatic minibeam radiotherapy: theoretical and experimental dosimetry for preclinical treatment plans. <i>Physics in Medicine and Biology</i> , 2011, 56, 4465-4480.	1.6	8
63	Brain virtual histology with X-ray phase-contrast tomography Part I: whole-brain myelin mapping in white-matter injury models. <i>Biomedical Optics Express</i> , 2022, 13, 1620.	1.5	8
64	State of the Art and Perspectives of Biomedical Imaging at the ESRF. <i>Synchrotron Radiation News</i> , 2008, 21, 30-41.	0.2	7
65	Short-term effects of synchrotron irradiation on vasculature and tissue in healthy mouse brain. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 477-483.	1.0	7
66	Monochromator harmonic content measurements and calculations at energies above 20 keV. <i>Review of Scientific Instruments</i> , 1992, 63, 893-895.	0.6	6
67	A patient positioning system for the ESRF medical imaging facility. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 1342-1345.	0.7	6
68	Preliminary study of a normoxic polyacrylamide gel doped with iodine. <i>Journal of Physics: Conference Series</i> , 2006, 56, 145-148.	0.3	5
69	The Clinical Trials Program at the ESRF Biomedical Beamline ID17: Status and Remaining Steps. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	5
70	Synchrotron Radiation Therapy from a Medical Physics point of view. , 2010, , .		5
71	Surgivisio® and O-arm®O2 cone beam CT mobile systems for guidance of lumbar spine surgery: Comparison of patient radiation dose. <i>Physica Medica</i> , 2021, 85, 192-199.	0.4	5
72	Response to Dr. Nicholas Foray's commentary on the paper by Rousseau et al. entitled "Efficacy of intracerebral delivery of cisplatin in combination with photon irradiation for treatment of brain tumors". <i>Journal of Neuro-Oncology</i> , 2011, 101, 165-167.	1.4	4

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73	Synchrotron X-Ray Boost in the Microbeam Radiation Therapy Mode Improves Glioma Control After Conventional X-Ray Fractions. International Journal of Radiation Oncology Biology Physics, 2016, 96, E94-E95.	0.4	4
74	Dual-energy coronary angiography in pigs using a Gd contrast agent. , 2000, 3977, 96.		2
75	Dosimetry for synchrotron stereotactic radiotherapy: Fricke gel and Monte Carlo calculations. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 548, 65-68.	0.7	2
76	Radiation Therapy Using Synchrotron Radiation: Preclinical Studies Toward Clinical Trials. Synchrotron Radiation News, 2011, 24, 8-12.	0.2	2
77	SP-0205: Monoenergetic synchrotron beams: first human experience for therapeutic purpose. Radiotherapy and Oncology, 2014, 111, S81-S82.	0.3	2
78	Contrast-enhanced Synchrotron Stereotactic Radiotherapy Clinical Trials from a Medical Physicist Point of View. International Journal of Radiation Oncology Biology Physics, 2014, 90, S16-S17.	0.4	2
79	Stereotaxic Implantation of F98 Cells in Fischer Rats: A Syngeneic Model to Investigate Photodynamic Therapy Response in Glioma. Methods in Molecular Biology, 2022, 2451, 203-210.	0.4	2
80	Measurement of rocking curve wings at high X-ray energies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 319, 149-154.	0.7	1
81	Synchrotron Radiation Computed Tomography Station at the ESRF Biomedical Beamline. AIP Conference Proceedings, 2007, , .	0.3	1
82	Fast Dose Calculation for Stereotactic Synchrotron Radiotherapy. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3914-7.	0.5	1
83	Tracking cells in the brain of small animals using synchrotron multi-spectral phase contrast imaging. , 2021, , .		1
84	SU-E-T-207: Local and Limited Projection Tomography Reconstructions for Contrast-Enhanced Synchrotron Stereotactic Radiotherapy in Vivo Dosimetry. Medical Physics, 2011, 38, 3534-3534.	1.6	1
85	In vivo imaging of brain tumors in rats by K-edge SRCT using iodine and gadolinium contrast agents. Synchrotron Radiation News, 1999, 12, 28-33.	0.2	0
86	Utilization of nPAG dosimeter for synchrotron radiotherapy: first results. Journal of Physics: Conference Series, 2006, 56, 289-292.	0.3	0
87	1576 poster A TREATMENT PLANNING SYSTEM FOR CONTRAST-ENHANCED STEREOTACTIC SYNCHROTRON RADIATION THERAPY. Radiotherapy and Oncology, 2011, 99, S586.	0.3	0
88	R�ponse aux commentaires de H.�elleaume et al. sur la revue intitul�e �«Aspects radiobiologiques des traitements anticanc�reux par rayonnement synchrotron�: bilan et perspectives�». Cancer Radioth�apie: Journal De La Societe Francaise De Radiotherapie Oncologique, 2011, 15, 164-167.	0.6	0
89	Energy weighting with a CdTe spectrometric detector. , 2011, , .		0
90	Photon activation radiotherapy of nanoparticles: Monte Carlo modelling and experimental comparison. Physica Medica, 2012, 28, S9.	0.4	0

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91	130 THE ROLE OF GADOLINIUM NANOPARTICLES IN THE TUMORAL CELLSâ€™™ RADIOSENSITIZATION. Radiotherapy and Oncology, 2012, 102, S56-S57.	0.3	0
92	224 MODELING AND EXPERIMENTAL VALIDATION OF THE RADIATION â€™“ HEAVY ELEMENTS INTERACTIONS AT THE MICROMETER LEVEL IN PHOTON ACTIVATION RADIOTHERAPY. Radiotherapy and Oncology, 2012, 102, S113-S114.	0.3	0
93	Dual energy CT for simultaneous and quantitative imaging of iodinated contrast agent and gadolinium nanoparticles: A perspective for increasing the therapeutic efficacy of nanoparticles. Physica Medica, 2013, 29, e12.	0.4	0
94	EP-2035: Internalization of iron nanoparticles by macrophages for the improvement of glioma treatment. Radiotherapy and Oncology, 2016, 119, S961.	0.3	0
95	Heavy-atom enhanced synchrotron stereotactic radiotherapy of brain tumors: from DNA to preclinical studies. Radioprotection, 2008, 43, .	0.5	0
96	TU-E-BRB-03: A Treatment Planning System for Contrast-Enhanced Stereotactic Synchrotron Radiation Therapy Clinical Trials. Medical Physics, 2011, 38, 3767-3767.	1.6	0
97	SU-E-T-335: Contrast-Enhanced Stereotactic Synchrotron Radiation Therapy Clinical Trials: A Dry Run Report. Medical Physics, 2011, 38, 3564-3564.	1.6	0
98	Radioluminescent nanomaterials to induce deep-tissue PDT: towards a complete description of the therapeutic contributions (Conference Presentation). , 2019, , .		0