

# Kristoffer Petersson

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

3,202  
citations

394286

19  
h-index

315616

38  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1345  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Advantage of FLASH Radiotherapy Confirmed in Mini-pig and Cat-cancer Patients. <i>Clinical Cancer Research</i> , 2019, 25, 35-42.	3.2	430
2	Irradiation in a flash: Unique sparing of memory in mice after whole brain irradiation with dose rates above 100 Gy/s. <i>Radiotherapy and Oncology</i> , 2017, 124, 365-369.	0.3	410
3	Long-term neurocognitive benefits of FLASH radiotherapy driven by reduced reactive oxygen species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10943-10951.	3.3	326
4	Ultra-High Dose Rate (FLASH) Radiotherapy: Silver Bullet or Fool's Gold?. <i>Frontiers in Oncology</i> , 2019, 9, 1563.	1.3	302
5	X-rays can trigger the FLASH effect: Ultra-high dose-rate synchrotron light source prevents normal brain injury after whole brain irradiation in mice. <i>Radiotherapy and Oncology</i> , 2018, 129, 582-588.	0.3	250
6	Hypofractionated FLASH-RT as an Effective Treatment against Glioblastoma that Reduces Neurocognitive Side Effects in Mice. <i>Clinical Cancer Research</i> , 2021, 27, 775-784.	3.2	144
7	High dose-rate pulse electron beam dosimetry: Commissioning of the Oriatron eRT6 prototype linear accelerator for preclinical use. <i>Medical Physics</i> , 2018, 45, 863-874.	1.6	143
8	High dose-rate pulse electron beam dosimetry – A model to correct for the ion recombination in the Advanced Markus ionization chamber. <i>Medical Physics</i> , 2017, 44, 1157-1167.	1.6	141
9	The FLASH effect depends on oxygen concentration. <i>British Journal of Radiology</i> , 2020, 93, 20190702.	1.0	133
10	Modifying a clinical linear accelerator for delivery of ultra-high dose rate irradiation. <i>Radiotherapy and Oncology</i> , 2019, 139, 40-45.	0.3	125
11	High dose-rate pulse electron beam dosimetry: Usability and dose-rate independence of EBT3 Gafchromic films. <i>Medical Physics</i> , 2017, 44, 725-735.	1.6	115
12	Dosimetric and preparation procedures for irradiating biological models with pulsed electron beam at ultra-high dose-rate. <i>Radiotherapy and Oncology</i> , 2019, 139, 34-39.	0.3	92
13	A Quantitative Analysis of the Role of Oxygen Tension in FLASH Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 539-547.	0.4	84
14	Understanding High-Dose, Ultra-High Dose Rate, and Spatially Fractionated Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 766-778.	0.4	70
15	Ultra-high-dose-rate FLASH and Conventional-Dose-Rate Irradiation Differentially Affect Human Acute Lymphoblastic Leukemia and Normal Hematopoiesis. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 109, 819-829.	0.4	66
16	Irradiation at Ultra-High (FLASH) Dose Rates Reduces Acute Normal Tissue Toxicity in the Mouse Gastrointestinal System. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 1250-1261.	0.4	53
17	Establishment and Initial Experience of Clinical FLASH Radiotherapy in Canine Cancer Patients. <i>Frontiers in Oncology</i> , 2021, 11, 658004.	1.3	45
18	The importance of hypoxia in radiotherapy for the immune response, metastatic potential and FLASH-RT. <i>International Journal of Radiation Biology</i> , 2022, 98, 439-451.	1.0	24

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19	Correction for Ion Recombination in a Built-in Monitor Chamber of a Clinical Linear Accelerator at Ultra-High Dose Rates. <i>Radiation Research</i> , 2020, 194, 580-586.	0.7	23
20	Cancer Cells Can Exhibit a Sparing FLASH Effect at Low Doses Under Normoxic In Vitro-Conditions. <i>Frontiers in Oncology</i> , 2021, 11, 686142.	1.3	22
21	Haematological toxicity in adult patients receiving craniospinal irradiation – Indication of a dose-bath effect. <i>Radiotherapy and Oncology</i> , 2014, 111, 47-51.	0.3	21
22	FLASH irradiation induces lower levels of DNA damage ex vivo, an effect modulated by oxygen tension, dose, and dose rate. <i>British Journal of Radiology</i> , 2022, 95, 20211150.	1.0	19
23	Discrepancies between selected Pareto optimal plans and final deliverable plans in radiotherapy multi-criteria optimization. <i>Radiotherapy and Oncology</i> , 2016, 120, 346-348.	0.3	17
24	Evaluation of dual-arc VMAT radiotherapy treatment plans automatically generated via dose mimicking. <i>Acta Oncologica</i> , 2016, 55, 523-525.	0.8	17
25	Development of Ultra-High Dose-Rate (FLASH) Particle Therapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 252-262.	2.7	17
26	A focused very high energy electron beam for fractionated stereotactic radiotherapy. <i>Scientific Reports</i> , 2021, 11, 5844.	1.6	15
27	Conversion of helical tomotherapy plans to step-and-shoot IMRT plans-Pareto front evaluation of plans from a new treatment planning system. <i>Medical Physics</i> , 2011, 38, 3130-3138.	1.6	14
28	<i>In vitro</i> assays for investigating the FLASH effect. <i>Expert Reviews in Molecular Medicine</i> , 2022, 24, e10.	1.6	13
29	Faster and more accurate patient positioning with surface guided radiotherapy for ultra-hypofractionated prostate cancer patients. <i>Technical Innovations and Patient Support in Radiation Oncology</i> , 2021, 19, 41-45.	0.6	10
30	Treatment plan comparison using grading analysis based on clinical judgment. <i>Acta Oncologica</i> , 2013, 52, 645-651.	0.8	8
31	A treatment planning comparison of contemporary photon-based radiation techniques for breast cancer. <i>Physics and Imaging in Radiation Oncology</i> , 2018, 7, 32-38.	1.2	8
32	Analysis of the treatment plan evaluation process in radiotherapy through eye tracking. <i>Zeitschrift Fur Medizinische Physik</i> , 2018, 28, 318-324.	0.6	7
33	Monitoring electron energies during FLASH irradiations. <i>Physics in Medicine and Biology</i> , 2021, 66, 045015.	1.6	7
34	Beam commissioning and measurements validating the beam model in a new TPS that converts helical tomotherapy plans to step-and-shoot IMRT plans. <i>Medical Physics</i> , 2011, 38, 40-46.	1.6	6
35	A clinical distance measure for evaluating treatment plan quality difference with Pareto fronts in radiotherapy. <i>Physics and Imaging in Radiation Oncology</i> , 2017, 3, 53-56.	1.2	4
36	Multi-modality optimisation in radiotherapy treatment planning using composite objective values. <i>Acta Oncologica</i> , 2015, 54, 557-561.	0.8	3

#	ARTICLE	IF	CITATIONS
37	Palliative short-course hypofractionated radiotherapy followed by chemotherapy in esophageal adenocarcinoma: the phase II PALAESTRA trial. <i>Acta Oncologica</i> , 2020, 59, 212-218.	0.8	3
38	FLASH radiotherapy: What, how and why?. , 2020, 2020, 66-69.		1