

Erik Roelofs

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

4,738
citations

361296

20
h-index

501076

28
g-index

33
all docs

33
docs citations

33
times ranked

6438
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiomics: the bridge between medical imaging and personalized medicine. <i>Nature Reviews Clinical Oncology</i> , 2017, 14, 749-762.	12.5	3,216
2	Predicting outcomes in radiation oncologyâ€™ multifactorial decision support systems. <i>Nature Reviews Clinical Oncology</i> , 2013, 10, 27-40.	12.5	329
3	â€™Rapid Learning health care in oncologyâ€™™ â€™ An approach towards decision support systems enabling customised radiotherapyâ€™™. <i>Radiotherapy and Oncology</i> , 2013, 109, 159-164.	0.3	175
4	Decision support systems for personalized and participative radiation oncology. <i>Advanced Drug Delivery Reviews</i> , 2017, 109, 131-153.	6.6	113
5	Radiation dose constraints for organs at risk in neuro-oncology; the European Particle Therapy Network consensus. <i>Radiotherapy and Oncology</i> , 2018, 128, 26-36.	0.3	112
6	Results of a Multicentric In Silico Clinical Trial (ROCOCO): Comparing Radiotherapy with Photons and Protons for Non-small Cell Lung Cancer. <i>Journal of Thoracic Oncology</i> , 2012, 7, 165-176.	0.5	89
7	The EPTN consensus-based atlas for CT- and MR-based contouring in neuro-oncology. <i>Radiotherapy and Oncology</i> , 2018, 128, 37-43.	0.3	80
8	International data-sharing for radiotherapy research: An open-source based infrastructure for multicentric clinical data mining. <i>Radiotherapy and Oncology</i> , 2014, 110, 370-374.	0.3	67
9	Development and evaluation of an online three-level proton vs photon decision support prototype for head and neck cancer â€™ Comparison of dose, toxicity and cost-effectiveness. <i>Radiotherapy and Oncology</i> , 2016, 118, 281-285.	0.3	65
10	Benefits of a clinical data warehouse with data mining tools to collect data for a radiotherapy trial. <i>Radiotherapy and Oncology</i> , 2013, 108, 174-179.	0.3	62
11	Modern clinical research: How rapid learning health care and cohort multiple randomised clinical trials complement traditional evidence based medicine. <i>Acta OncolÃ³gica</i> , 2015, 54, 1289-1300.	0.8	59
12	Particle Therapy for Non-Small Cell Lung Tumors: Where Do We Stand? A Systematic Review of the Literature. <i>Frontiers in Oncology</i> , 2014, 4, 292.	1.3	54
13	Benefit of particle therapy in re-irradiation of head and neck patients. Results of a multicentric in silico ROCOCO trial. <i>Radiotherapy and Oncology</i> , 2016, 121, 387-394.	0.3	46
14	Design of and technical challenges involved in a framework for multicentric radiotherapy treatment planning studies. <i>Radiotherapy and Oncology</i> , 2010, 97, 567-571.	0.3	32
15	Photons, protons or carbon ions for stage I non-small cell lung cancer â€™ Results of the multicentric ROCOCO in silico study. <i>Radiotherapy and Oncology</i> , 2018, 128, 139-146.	0.3	32
16	Update of the EPTN atlas for CT- and MR-based contouring in Neuro-Oncology. <i>Radiotherapy and Oncology</i> , 2021, 160, 259-265.	0.3	32
17	Overview of the American Society for Radiation Oncologyâ€™National Institutes of Healthâ€™American Association of Physicists in Medicine Workshop 2015: Exploring Opportunities for Radiation Oncology in the Era of Big Data. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016, 95, 873-879.	0.4	27
18	The posterior cerebellum, a new organ at risk?. <i>Clinical and Translational Radiation Oncology</i> , 2018, 8, 22-26.	0.9	23

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19	Dummy run and conformity indices in the ongoing EORTC low-grade glioma trial 22033-26033: First evaluation of quality of radiotherapy planning. <i>Radiotherapy and Oncology</i> , 2010, 95, 218-224.	0.3	21
20	Intensity-modulated proton therapy decreases dose to organs at risk in low-grade glioma patients: results of a multicentric <i>in silico</i> ROCOCO trial. <i>Acta Oncologica</i> , 2019, 58, 57-65.	0.8	20
21	Informatics methods to enable sharing of quantitative imaging research data. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1249-1256.	1.0	17
22	A validated tumor control probability model based on a meta-analysis of low, intermediate, and high-risk prostate cancer patients treated by photon, proton, or carbon ion radiotherapy. <i>Medical Physics</i> , 2016, 43, 734-747.	1.6	17
23	An <i>in silico</i> comparison between margin-based and probabilistic target-planning approaches in head and neck cancer patients. <i>Radiotherapy and Oncology</i> , 2013, 109, 430-436.	0.3	14
24	Photons or protons for reirradiation in (non-)small cell lung cancer: Results of the multicentric ROCOCO <i>in silico</i> study. <i>British Journal of Radiology</i> , 2020, 93, 20190879.	1.0	13
25	The European Particle Therapy Network (EPTN) consensus on the follow-up of adult patients with brain and skull base tumours treated with photon or proton irradiation. <i>Radiotherapy and Oncology</i> , 2022, 168, 241-249.	0.3	11
26	Towards a Clinical Decision Support System for External Beam Radiation Oncology Prostate Cancer Patients: Proton vs. Photon Radiotherapy? A Radiobiological Study of Robustness and Stability. <i>Cancers</i> , 2018, 10, 55.	1.7	5
27	Advanced design, simulation, and dosimetry of a novel rectal applicator for contact brachytherapy with a conventional HDR 192Ir source. <i>Brachytherapy</i> , 2020, 19, 544-553.	0.2	4
28	The ROCOCO performance scoring system translates dosimetric differences into clinically relevant endpoints: Comparing IMPT to VMAT in an example pilocytic astrocytoma dataset. <i>Clinical and Translational Radiation Oncology</i> , 2021, 28, 32-38.	0.9	2
29	Why determine only the total prostate-specific antigen, if the free-to-total ratio contains the information?. <i>Annals of Clinical Biochemistry</i> , 2008, 45, 270-274.	0.8	0
30	Comparing geometrical plan robustness and volatility of TCP for the ROCOCO photon prostate dataset. <i>Physica Medica</i> , 2013, 29, 571.	0.4	0
31	Application of Machine Learning for Multicenter Learning. , 2015, , 71-97.		0
32	How Should Data Be Shared and Rapid Learning Health Care Promoted?. , 2012, , 355-364.		0