Erik Roelofs

List of Publications by Year
in descending order

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32 papers	4,738 citations	361413 20 h-index	501196 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. Nature Reviews Clinical Oncology, 2017, 14, 749-762.	27.6	3,216
2	Predicting outcomes in radiation oncologyâ€"multifactorial decision support systems. Nature Reviews Clinical Oncology, 2013, 10, 27-40.	27.6	329
3	â€˜Rapid Learning health care in oncologyâ€™ â€“ An approach towards decision support systems enabling customised radiotherapyâ€™. Radiotherapy and Oncology, 2013, 109, 159-164.	0.6	175
4	Decision support systems for personalized and participative radiation oncology. Advanced Drug Delivery Reviews, 2017, 109, 131-153.	13.7	113
5	Radiation dose constraints for organs at risk in neuro-oncology; the European Particle Therapy Network consensus. Radiotherapy and Oncology, 2018, 128, 26-36.	0.6	112
6	Results of a Multicentric In Silico Clinical Trial (ROCOCO): Comparing Radiotherapy with Photons and Protons for Non-small Cell Lung Cancer. Journal of Thoracic Oncology, 2012, 7, 165-176.	1.1	89
7	The EPTN consensus-based atlas for CT- and MR-based contouring in neuro-oncology. Radiotherapy and Oncology, 2018, 128, 37-43.	0.6	80
8	International data-sharing for radiotherapy research: An open-source based infrastructure for multicentric clinical data mining. Radiotherapy and Oncology, 2014, 110, 370-374.	0.6	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. Radiotherapy and Oncology, 2016, 118, 281-285.	0.6	65
10	Benefits of a clinical data warehouse with data mining tools to collect data for a radiotherapy trial. Radiotherapy and Oncology, 2013, 108, 174-179.	0.6	62
11	Modern clinical research: How rapid learning health care and cohort multiple randomised clinical trials complement traditional evidence based medicine. Acta OncolÃ³gica, 2015, 54, 1289-1300.	1.8	59
12	Particle Therapy for Non-Small Cell Lung Tumors: Where Do We Stand? A Systematic Review of the Literature. Frontiers in Oncology, 2014, 4, 292.	2.8	54
13	Benefit of particle therapy in re-irradiation of head and neck patients. Results of a multicentric in silico ROCOCO trial. Radiotherapy and Oncology, 2016, 121, 387-394.	0.6	46
14	Design of and technical challenges involved in a framework for multicentric radiotherapy treatment planning studies. Radiotherapy and Oncology, 2010, 97, 567-571.	0.6	32
15	Photons, protons or carbon ions for stage I non-small cell lung cancer â€“ Results of the multicentric ROCOCO in silico study. Radiotherapy and Oncology, 2018, 128, 139-146.	0.6	32
16	Update of the EPTN atlas for CT- and MR-based contouring in Neuro-Oncology. Radiotherapy and Oncology, 2021, 160, 259-265.	0.6	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. International Journal of Radiation Oncology Biology Physics, 2016, 95, 873-879.	0.8	27
18	The posterior cerebellum, a new organ at risk?. Clinical and Translational Radiation Oncology, 2018, 8, 22-26.	1.7	23

#	Article	IF	Citations
19	Dummy run and conformity indices in the ongoing EORTC low-grade glioma trial 22033-26033: First evaluation of quality of radiotherapy planning. Radiotherapy and Oncology, 2010, 95, 218-224.	0.6	21
20	Intensity-modulated proton therapy decreases dose to organs at risk in low-grade glioma patients: results of a multicentric in silico ROCOCO trial. Acta OncolÃ³gica, 2019, 58, 57-65.	1.8	20
21	Informatics methods to enable sharing of quantitative imaging research data. Magnetic Resonance Imaging, 2012, 30, 1249-1256.	1.8	17
22	A validated tumor control probability model based on a metaâ€analysis of low, intermediate, and highâ€risk prostate cancer patients treated by photon, proton, or carbonâ€ion radiotherapy. Medical Physics, 2016, 43, 734-747.	3.0	17
23	An in silico comparison between margin-based and probabilistic target-planning approaches in head and neck cancer patients. Radiotherapy and Oncology, 2013, 109, 430-436.	0.6	14
24	Photons or protons for reirradiation in (non-)small cell lung cancer: Results of the multicentric ROCOCO in silico study. British Journal of Radiology, 2020, 93, 20190879.	2.2	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. Radiotherapy and Oncology, 2022, 168, 241-249.	0.6	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. Cancers, 2018, 10, 55.	3.7	5
27	Advanced design, simulation, and dosimetry of a novel rectal applicator for contact brachytherapy with a conventional HDR 192Ir source. Brachytherapy, 2020, 19, 544-553.	0.5	4
28	The ROCOCO performance scoring system translates dosimetric differences into clinically relevant endpoints: Comparing IMPT to VMAT in an example pilocytic astrocytoma dataset. Clinical and Translational Radiation Oncology, 2021, 28, 32-38.	1.7	2
29	Why determine only the total prostate-specific antigen, if the free-to-total ratio contains the information?. Annals of Clinical Biochemistry, 2008, 45, 270-274.	1.6	0
30	Comparing geometrical plan robustness and volatility of TCP for the ROCOCO photon prostate dataset. Physica Medica, 2013, 29, 571.	0.7	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