

# Erik Roelofs

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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.  | 0.6  | 11        |
| 2  | 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.  | 1.7  | 2         |
| 3  | Update of the EPTN atlas for CT- and MR-based contouring in Neuro-Oncology. <i>Radiotherapy and Oncology</i> , 2021, 160, 259-265.   | 0.6  | 32        |
| 4  | 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.   | 2.2  | 13        |
| 5  | 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.  | 0.5  | 4         |
| 6  | 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.   | 1.8  | 20        |
| 7  | The EPTN consensus-based atlas for CT- and MR-based contouring in neuro-oncology. <i>Radiotherapy and Oncology</i> , 2018, 128, 37-43.   | 0.6  | 80        |
| 8  | Photons, protons or carbon ions for stage I non-small cell lung cancer – Results of the multicentric ROCOCO <i>in silico</i> study. <i>Radiotherapy and Oncology</i> , 2018, 128, 139-146.   | 0.6  | 32        |
| 9  | The posterior cerebellum, a new organ at risk?. <i>Clinical and Translational Radiation Oncology</i> , 2018, 8, 22-26.   | 1.7  | 23        |
| 10 | 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.   | 0.6  | 112       |
| 11 | 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.  | 3.7  | 5         |
| 12 | Decision support systems for personalized and participative radiation oncology. <i>Advanced Drug Delivery Reviews</i> , 2017, 109, 131-153.  | 13.7 | 113       |
| 13 | Radiomics: the bridge between medical imaging and personalized medicine. <i>Nature Reviews Clinical Oncology</i> , 2017, 14, 749-762.  | 27.6 | 3,216     |
| 14 | 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.   | 3.0  | 17        |
| 15 | Benefit of particle therapy in re-irradiation of head and neck patients. Results of a multicentric <i>in silico</i> ROCOCO trial. <i>Radiotherapy and Oncology</i> , 2016, 121, 387-394.   | 0.6  | 46        |
| 16 | Overview of the American Society for Radiation Oncology – National Institutes of Health – 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. | 0.8  | 27        |
| 17 | Development and evaluation of an online three-level proton vs photon decision support prototype for head and neck cancer – Comparison of dose, toxicity and cost-effectiveness. <i>Radiotherapy and Oncology</i> , 2016, 118, 281-285.   | 0.6  | 65        |
| 18 | Application of Machine Learning for Multicenter Learning. , 2015, , 71-97.   |      | 0         |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Modern clinical research: How rapid learning health care and cohort multiple randomised clinical trials complement traditional evidence based medicine. <i>Acta Oncologica</i> , 2015, 54, 1289-1300. | 1.8  | 59        |
| 20 | 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.   | 2.8  | 54        |
| 21 | 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.               | 0.6  | 67        |
| 22 | 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.   | 0.6  | 62        |
| 23 | “Rapid Learning health care in oncology” – An approach towards decision support systems enabling customised radiotherapy. <i>Radiotherapy and Oncology</i> , 2013, 109, 159-164.                      | 0.6  | 175       |
| 24 | Predicting outcomes in radiation oncology – multifactorial decision support systems. <i>Nature Reviews Clinical Oncology</i> , 2013, 10, 27-40.   | 27.6 | 329       |
| 25 | An in silico comparison between margin-based and probabilistic target-planning approaches in head and neck cancer patients. <i>Radiotherapy and Oncology</i> , 2013, 109, 430-436.                    | 0.6  | 14        |
| 26 | Comparing geometrical plan robustness and volatility of TCP for the ROCOCO photon prostate dataset. <i>Physica Medica</i> , 2013, 29, 571.  | 0.7  | 0         |
| 27 | 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.  | 1.1  | 89        |
| 28 | Informatics methods to enable sharing of quantitative imaging research data. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1249-1256.   | 1.8  | 17        |
| 29 | How Should Data Be Shared and Rapid Learning Health Care Promoted?. , 2012, , 355-364.  |      | 0         |
| 30 | 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. | 0.6  | 21        |
| 31 | Design of and technical challenges involved in a framework for multicentric radiotherapy treatment planning studies. <i>Radiotherapy and Oncology</i> , 2010, 97, 567-571.                            | 0.6  | 32        |
| 32 | 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.                             | 1.6  | 0         |