Marianne C Aznar

List of Publications by Citations

89 papers	2,909 citations	28 h-index	52 g-index
102 ext. papers	3,733 ext. citations	3 avg, IF	5.02 L-index

#	Paper	IF	Citations
89	Estimating the Risks of Breast Cancer Radiotherapy: Evidence From Modern Radiation Doses to the Lungs and Heart and From Previous Randomized Trials. *Journal of Clinical Oncology*, **2017**, 35, 1641-1649	2.2	348
88	ESTRO consensus guideline on target volume delineation for elective radiation therapy of early stage breast cancer. *Radiotherapy and Oncology*, **2015**, 114, 3-10	5.3	281
87	Deep inspiration breath hold to reduce irradiated heart volume in breast cancer patients. *International Journal of Radiation Oncology Biology Physics*, **2001**, 49, 199-204	4	204
86	A cardiac contouring atlas for radiotherapy. *Radiotherapy and Oncology*, **2017**, 122, 416-422	5.3	126
85	Real-time optical-fibre luminescence dosimetry for radiotherapy: physical characteristics and applications in photon beams. *Physics in Medicine and Biology*, **2004**, 49, 1655-69	3.8	120
84	ESTRO consensus guideline on target volume delineation for elective radiation therapy of early stage breast cancer, version 1.1. *Radiotherapy and Oncology*, **2016**, 118, 205-8	5.3	105
83	Radiobiological risk estimates of adverse events and secondary cancer for proton and photon radiation therapy of pediatric medulloblastoma. *Acta Oncologica*, **2011**, 50, 806-16	3.2	105
82	Minimizing late effects for patients with mediastinal Hodgkin lymphoma: deep inspiration breath-hold, IMRT, or both?. *International Journal of Radiation Oncology Biology Physics*, **2015**, 92, 169-74	4	84
81	Recurrences after intensity modulated radiotherapy for head and neck squamous cell carcinoma more likely to originate from regions with high baseline [18F]-FDG uptake. *Radiotherapy and Oncology*, **2014**, 111, 360-5	5.3	84
80	Risk of developing cardiovascular disease after involved node radiotherapy versus mantle field for Hodgkin lymphoma. *International Journal of Radiation Oncology Biology Physics*, **2012**, 83, 1232-7	4	71
79	Prospective phase II trial of image-guided radiotherapy in Hodgkin lymphoma: benefit of deep inspiration breath-hold. *Acta Oncologica*, **2015**, 54, 60-6	3.2	65
78	Three-dimensional MRI-linac intra-fraction guidance using multiple orthogonal cine-MRI planes. *Physics in Medicine and Biology*, **2013**, 58, 4943-50	3.8	65
77	Adaptive Radiotherapy for Anatomical Changes. *Seminars in Radiation Oncology*, **2019**, 29, 245-257	5.5	60
76	Quality indicators for breast cancer: revisiting historical evidence in the context of technology changes. *Seminars in Radiation Oncology*, **2012**, 22, 29-39	5.5	57
75	Involved node radiation therapy: an effective alternative in early-stage hodgkin lymphoma. *International Journal of Radiation Oncology Biology Physics*, **2013**, 85, 1057-65	4	57
74	Exposure of the lungs in breast cancer radiotherapy: A systematic review of lung doses published 2010-2015. *Radiotherapy and Oncology*, **2018**, 126, 148-154	5.3	56
73	Life years lost--comparing potentially fatal late complications after radiotherapy for pediatric medulloblastoma on a common scale. *Cancer*, **2012**, 118, 5432-40	6.4	51

72	Positron emission mammographic instrument: initial results. *Radiology*, **2000**, 215, 280-5	20.5	51
71	Rotational radiotherapy for prostate cancer in clinical practice. *Radiotherapy and Oncology*, **2010**, 97, 480-4	5.3	43
70	Phase I trial of 18F-Fludeoxyglucose based radiation dose painting with concomitant cisplatin in head and neck cancer. *Radiotherapy and Oncology*, **2016**, 120, 76-80	5.3	40
69	Feasibility of Multiparametric Imaging with PET/MR in Head and Neck Squamous Cell Carcinoma. *Journal of Nuclear Medicine*, **2017**, 58, 69-74	8.9	34
68	Optical fibre dosemeter systems for clinical applications based on radioluminescence and optically stimulated luminescence from Al2O3:C. *Radiation Protection Dosimetry*, **2006**, 120, 28-32	0.9	34
67	Reduced lung dose and improved inspiration level reproducibility in visually guided DIBH compared to audio coached EIG radiotherapy for breast cancer patients. *Acta Oncologica*, **2013**, 52, 1458-63	3.2	33
66	Influence of the stem effect on radioluminescence signals from optical fibre Al2O3:C dosemeters. *Radiation Protection Dosimetry*, **2006**, 119, 363-7	0.9	32
65	The evolving role of radiotherapy in non-small cell lung cancer. *British Journal of Radiology*, **2019**, 92, 20190524	3.4	31
64	Interactive decision-support tool for risk-based radiation therapy plan comparison for Hodgkin lymphoma. *International Journal of Radiation Oncology Biology Physics*, **2014**, 88, 433-45	4	30
63	Geometric uncertainties in voluntary deep inspiration breath hold radiotherapy for locally advanced lung cancer. *Radiotherapy and Oncology*, **2016**, 118, 510-4	5.3	29
62	Joint Estimation of Cardiac Toxicity and Recurrence Risks After Comprehensive Nodal Photon Versus Proton Therapy for Breast Cancer. *International Journal of Radiation Oncology Biology Physics*, **2017**, 97, 754-761	4	28
61	Residual Setup Errors Towards the Heart After Image Guidance Linked With Poorer Survival in Lung Cancer Patients: Do We Need Stricter IGRT Protocols?. *International Journal of Radiation Oncology Biology Physics*, **2018**, 102, 434-442	4	26
60	Doses to carotid arteries after modern radiation therapy for Hodgkin lymphoma: is stroke still a late effect of treatment?. *International Journal of Radiation Oncology Biology Physics*, **2013**, 87, 297-303	4	25
59	Robustness of the Voluntary Breath-Hold Approach for the Treatment of Peripheral Lung Tumors Using Hypofractionated Pencil Beam Scanning Proton Therapy. *International Journal of Radiation Oncology Biology Physics*, **2016**, 95, 534-541	4	25
58	Ionizing Radiation Potentiates High-Fat Diet-Induced Insulin Resistance and Reprograms Skeletal Muscle and Adipose Progenitor Cells. *Diabetes*, **2016**, 65, 3573-3584	0.9	25
57	Cardiac Toxicity of Thoracic Radiotherapy: Existing Evidence and Future Directions. *Journal of Thoracic Oncology*, **2021**, 16, 216-227	8.9	25
56	The effect on esophagus after different radiotherapy techniques for early stage Hodgkin's lymphoma. *Acta Oncologica*, **2013**, 52, 1559-65	3.2	24
55	Failure-probability driven dose painting. *Medical Physics*, **2013**, 40, 081717	4.4	23

54	Estimated radiation pneumonitis risk after photon versus proton therapy alone or combined with chemotherapy for lung cancer. *Acta Oncologica*, **2011**, 50, 772-6	3.2	21
53	A closer look at RapidArc radiosurgery plans using very small fields. *Physics in Medicine and Biology*, **2011**, 56, 1853-63	3.8	21
52	Clinical Intensity Modulated Proton Therapy for Hodgkin Lymphoma: Which Patients Benefit the Most?. *Practical Radiation Oncology*, **2019**, 9, 179-187	2.8	19
51	Metal artefact reduction for accurate tumour delineation in radiotherapy. *Radiotherapy and Oncology*, **2018**, 126, 479-486	5.3	18
50	Irregular breathing during 4DCT scanning of lung cancer patients: is the midventilation approach robust?. *Physica Medica*, **2014**, 30, 69-75	2.7	18
49	The dosimetric impact of inversely optimized arc radiotherapy plan modulation for real-time dynamic MLC tracking delivery. *Medical Physics*, **2012**, 39, 1588-94	4.4	18
48	Deep inspiration breath hold radiotherapy for locally advanced lung cancer: comparison of different treatment techniques on target coverage, lung dose and treatment delivery time. *Acta Oncologica*, **2013**, 52, 1582-6	3.2	18
47	Stability of percutaneously implanted markers for lung stereotactic radiotherapy. *Journal of Applied Clinical Medical Physics*, **2013**, 14, 187-95	2.3	18
46	Prognostic value of 18F-fludeoxyglucose uptake in 287 patients with head and neck squamous cell carcinoma. *Head and Neck*, **2015**, 37, 1274-81	4.2	17
45	Patterns of practice for adaptive and real-time radiation therapy (POP-ART RT) part II: Offline and online plan adaption for interfractional changes. *Radiotherapy and Oncology*, **2020**, 153, 88-96	5.3	16
44	Optimizing the radiation therapy dose prescription for pediatric medulloblastoma: minimizing the life years lost attributable to failure to control the disease and late complication risk. *Acta Oncologica*, **2014**, 53, 462-70	3.2	14
43	Modelling duodenum radiotherapy toxicity using cohort dose-volume-histogram data. *Radiotherapy and Oncology*, **2017**, 123, 431-437	5.3	12
42	Spatio-temporal stability of pre-treatment 18F-Fludeoxyglucose uptake in head and neck squamous cell carcinomas sufficient for dose painting. *Acta Oncologica*, **2015**, 54, 1416-22	3.2	12
41	Deep inspiration breath-hold radiotherapy for lung cancer: impact on image quality and registration uncertainty in cone beam CT image guidance. *British Journal of Radiology*, **2016**, 89, 20160544	2.4	12
40	Deep inspiration breath hold in locally advanced lung cancer radiotherapy: validation of intrafractional geometric uncertainties in the INHALE trial. *British Journal of Radiology*, **2019**, 92, 20190569	2.4	11
39	Cardiac sub-volume targeting demonstrates regional radiosensitivity in the mouse heart. *Radiotherapy and Oncology*, **2020**, 152, 216-221	5.3	11
38	Patterns of practice for adaptive and real-time radiation therapy (POP-ART RT) part I: Intra-fraction breathing motion management. *Radiotherapy and Oncology*, **2020**, 153, 79-87	5.3	10
37	Long-term hospitalisation rates among 5-year survivors of Hodgkin lymphoma in adolescence or young adulthood: A nationwide cohort study. *International Journal of Cancer*, **2017**, 140, 2232-2245	7.5	10

36	A treatment planning study of the potential of geometrical tracking for intensity modulated proton therapy of lung cancer. *Acta Oncologica*, **2010**, 49, 1141-8	3.2	10
35	Methodologies for localizing loco-regional hypopharyngeal carcinoma recurrences in relation to FDG-PET positive and clinical radiation therapy target volumes. *Acta Oncologica*, **2010**, 49, 984-90	3.2	10
34	Interobserver delineation uncertainty in involved-node radiation therapy (INRT) for early-stage Hodgkin lymphoma: on behalf of the Radiotherapy Committee of the EORTC lymphoma group. *Acta Oncologica*, **2017**, 56, 608-613	3.2	9
33	European Society for Radiotherapy and Oncology Advisory Committee in Radiation Oncology Practice consensus recommendations on patient selection and dose and fractionation for external beam radiotherapy in early breast cancer.. *Lancet Oncology, The*, **2022**, 23, e21-e31	21.7	9
32	Image Based Data Mining Using Per-voxel Cox Regression. *Frontiers in Oncology*, **2020**, 10, 1178	5.3	9
31	Percutaneously implanted markers in peripheral lung tumours: report of complications. *Acta Oncologica*, **2013**, 52, 1225-8	3.2	8
30	A Competing Risk Model of First Failure Site after Definitive Chemoradiation Therapy for Locally Advanced Non-Small Cell Lung Cancer. *Journal of Thoracic Oncology*, **2018**, 13, 559-567	8.9	7
29	Prescribing and evaluating target dose in dose-painting treatment plans. *Acta Oncologica*, **2014**, 53, 1251-6	3.2	7
28	Inter-fraction robustness of intensity-modulated proton therapy in the post-operative treatment of oropharyngeal and oral cavity squamous cell carcinomas. *British Journal of Radiology*, **2020**, 93, 20190638	3.4	7
27	Conducting research in Radiation Oncology remotely during the COVID-19 pandemic: Coping with isolation. *Clinical and Translational Radiation Oncology*, **2020**, 24, 53-59	4.6	6
26	Flogging a Dead Salmon? Reduced Dose Posterior to Prostate Correlates With Increased PSA Progression in Voxel-Based Analysis of 3 Randomized Phase 3 Trials. *International Journal of Radiation Oncology Biology Physics*, **2021**, 110, 696-699	4	6
25	Tumour control probability after Ruthenium-106 brachytherapy for choroidal melanomas. *Acta Oncologica*, **2020**, 59, 918-925	3.2	5
24	Biological optimization for mediastinal lymphoma radiotherapy - a preliminary study. *Acta Oncologica*, **2020**, 59, 879-887	3.2	5
23	FLT-PET for early response evaluation of colorectal cancer patients with liver metastases: a prospective study. *EJNMMI Research*, **2017**, 7, 56	3.6	4
22	Dose-response relationships for radiation-related heart disease: Impact of uncertainties in cardiac dose reconstruction. *Radiotherapy and Oncology*, **2020**, 153, 155-162	5.3	4
21	The role of technology in clinical trials using stereotactic body radiotherapy. *British Journal of Radiology*, **2017**, 90, 20160930	3.4	3
20	Deep inspiration breath-hold volumetric modulated arc radiotherapy decreases dose to mediastinal structures in locally advanced lung cancer. *Acta Oncologica*, **2016**, 55, 1053-6	3.2	3
19	A modeling study of functional magnetic resonance imaging to individualize target definition of seminal vesicles for external beam radiotherapy. *Acta Oncologica*, **2017**, 56, 799-805	3.2	2

18	The potential role of modern radiotherapy techniques in the treatment of malignant spinal cord compression: a dose planning study. *Journal of Radiotherapy in Practice*, **2015**, 14, 418-424	0.4	2
17	Retrospective estimation of heart and lung doses in pediatric patients treated with spinal irradiation. *Radiotherapy and Oncology*, **2018**, 128, 209-213	5.3	2
16	Cumulative burden of disease: a relevant measure of the late side-effects of cancer treatment. *Lancet Oncology, The*, **2016**, 17, 1189-90	21.7	1
15	Absorbed Dose Measurement in Mammography **2008**, 493-501		1
14	Repeatability of FDG PET/CT metrics assessed in free breathing and deep inspiration breath hold in lung cancer patients. *American Journal of Nuclear Medicine and Molecular Imaging*, **2018**, 8, 127-136	2.2	1
13	Exposure of the oesophagus in breast cancer radiotherapy: A systematic review of oesophagus doses published 2010-2020. *Radiotherapy and Oncology*, **2021**, 164, 261-267	5.3	1
12	Novel methodology to assess the effect of contouring variation on treatment outcome. *Medical Physics*, **2021**, 48, 3234-3242	4.4	1
11	Tricks and tips for target volume definition and delineation in breast cancer: Lessons learned from ESTRO breast courses. *Radiotherapy and Oncology*, **2021**, 162, 185-194	5.3	1
10	No changes in myocardial perfusion following radiation therapy of left-sided breast cancer: A positron emission tomography study. *Journal of Nuclear Cardiology*, **2021**, 28, 1923-1932	2.1	1
9	Professional practice changes in radiotherapy physics during the COVID-19 pandemic. *Physics and Imaging in Radiation Oncology*, **2021**, 19, 25-32	3.1	1
8	Image-based data mining applies to data collected from children. *Physica Medica*, **2022**, 99, 31-43	2.7	1
7	In Reply to Ebert et al.. *International Journal of Radiation Oncology Biology Physics*, **2022**, 112, 833-834	4	0
6	Patient reported upper gastro-intestinal symptoms associated with fractionated image-guided conformal radiotherapy for metastatic spinal cord compression. *Technical Innovations and Patient Support in Radiation Oncology*, **2020**, 13, 1-5	1.9	0
5	The role of motion management and position verification in lymphoma radiotherapy. *British Journal of Radiology*, **2021**, 94, 20210618	3.4	0
4	Dual-energy computed tomography: Survey results on current uses and barriers to further implementation. *British Journal of Radiology*, **2021**, 94, 20210565	3.4	0
3	Learning healthcare systems and rapid learning in radiation oncology: Where are we and where are we going?. *Radiotherapy and Oncology*, **2021**, 164, 183-195	5.3	0
2	Streamlining the image-guided radiotherapy process for proton beam therapy. *British Journal of Radiology*, **2021**, 94, 20210764	3.4	0
1	Low dose cone beam CT for paediatric image-guided radiotherapy: Image quality and practical recommendations. *Radiotherapy and Oncology*, **2021**, 163, 68-75	5.3	0