

Michael Roumeliotis

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

346
citations

933264

10
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940416

16
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68
all docs

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docs citations

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times ranked

414
citing authors

#	ARTICLE	IF	CITATIONS
1	Increasing Demand on Human Capital and Resource Utilization in Radiation Therapy: The Past Decade. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 112, 457-462.	0.4	10
2	An updated approach for deriving PTV margins using image guidance and deformable dose accumulation. <i>Physics in Medicine and Biology</i> , 2022, 67, 075004.	1.6	1
3	Technical note: Commissioning of an ultrasound-compatible surrogate vaginal cylinder for transvaginal ultrasound-based gynecologic high-dose-rate brachytherapy. <i>Medical Physics</i> , 2022, 49, 2203-2211.	1.6	2
4	Performance of a knowledge-based planning model for optimizing intensity-modulated radiotherapy plans for partial breast irradiation. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, .	0.8	6
5	Competency-Based Medical Education in Radiation Therapy Treatment Planning. <i>Practical Radiation Oncology</i> , 2022, 12, e232-e238.	1.1	5
6	Assessment of tissue toxicity risk in breast radiotherapy using Bayesian networks. <i>Medical Physics</i> , 2022, 49, 3585-3596.	1.6	3
7	Implementation of high-dose-rate brachytherapy for prostatic carcinoma in an unshielded operating room facility. <i>Brachytherapy</i> , 2021, 20, 58-65.	0.2	1
8	Dosimetry of a sonolucent material for an ultrasound-compatible gynecologic high-dose-rate brachytherapy cylinder using Monte Carlo simulation and radiochromic film. <i>Brachytherapy</i> , 2021, 20, 265-271.	0.2	6
9	Development of a Machine Learning Model for Optimal Applicator Selection in High-Dose-Rate Cervical Brachytherapy. <i>Frontiers in Oncology</i> , 2021, 11, 611437.	1.3	2
10	Technical Note: A standardized automation framework for monitoring institutional radiotherapy protocol compliance. <i>Medical Physics</i> , 2021, 48, 2661-2666.	1.6	3
11	PHSOR10 Presentation Time: 10:45 AM. <i>Brachytherapy</i> , 2021, 20, S28.	0.2	0
12	Dosimetric consequences of seed placement accuracy in permanent breast seed implant brachytherapy. <i>Brachytherapy</i> , 2021, 20, 664-672.	0.2	2
13	Clinical Outcomes from Dose-Reduced Radiotherapy to the Prostate in Elderly Patients with Localized Prostate Cancer. <i>Current Oncology</i> , 2021, 28, 3729-3737.	0.9	2
14	Excessive waitlists and delays to treatment with low-dose-rate brachytherapy predict an increased risk of recurrence and metastases in intermediate-risk prostatic carcinoma. <i>Clinical and Translational Radiation Oncology</i> , 2021, 30, 38-42.	0.9	1
15	Establishing a simulation-based education program for radiation oncology learners in permanent seed implant brachytherapy: Building validation evidence. <i>Brachytherapy</i> , 2020, 19, 812-819.	0.2	8
16	Rapid implementation of extreme hypofractionation protocols in prostate cancer using RapidPlan® in response to COVID-19. <i>Radiotherapy and Oncology</i> , 2020, 151, 296-297.	0.3	4
17	Analysis of outcomes after non-contour-based dose painting of dominant intra-epithelial lesion in intra-operative low-dose rate brachytherapy. <i>Heliyon</i> , 2020, 6, e04092.	1.4	1
18	176: A National Survey of Canadian Radiation Oncology (Ro) Professional Involvement in Cancer Control Projects in Low-Income and Middle-Income Countries (Lmic). <i>Radiotherapy and Oncology</i> , 2020, 150, S75.	0.3	0

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19	Adapting Radiation Therapy Treatments for Patients with Breast Cancer During the COVID-19 Pandemic: Hypo-Fractionation and Accelerated Partial Breast Irradiation to Address World Health Organization Recommendations. <i>Advances in Radiation Oncology</i> , 2020, 5, 575-576.	0.6	35
20	Peer-based credentialing for brachytherapy: Application in permanent seed implant. <i>Brachytherapy</i> , 2020, 19, 794-799.	0.2	2
21	Results of the ACCEL trial: Dosimetry in accelerated partial breast irradiation. <i>Radiotherapy and Oncology</i> , 2020, 147, 50-55.	0.3	10
22	A retrospective analysis to demonstrate achievable dosimetry for the left anterior descending artery in left-sided breast cancer patients treated with radiotherapy. <i>Radiotherapy and Oncology</i> , 2020, 148, 167-173.	0.3	9
23	The impact of inter-fraction changes for perineal template-based interstitial gynecologic brachytherapy implants. <i>Journal of Contemporary Brachytherapy</i> , 2019, 11, 122-127.	0.4	3
24	A Comparison of the Accumulated Dose for Two Partial Breast Techniques: Associated Uncertainties and Informed Decisions for Patient Care. <i>Brachytherapy</i> , 2019, 18, S50.	0.2	0
25	A Simulation-Based Education Program for Permanent Breast Seed Implant Brachytherapy. <i>Brachytherapy</i> , 2019, 18, S30-S31.	0.2	3
26	EP-1326 Assessment of rigorous dosimetry guidelines for a multi-institutional, phase II APBI clinical trial. <i>Radiotherapy and Oncology</i> , 2019, 133, S726-S727.	0.3	0
27	A Credentialing Method for Permanent Seed Implant Brachytherapy to Quantitatively Assess Implant Accuracy. <i>Brachytherapy</i> , 2019, 18, S42.	0.2	0
28	PO-1049 Assessing PTV margin adequacy in permanent breast seed implant for complex target geometries. <i>Radiotherapy and Oncology</i> , 2019, 133, S583-S584.	0.3	0
29	Post-implant analysis in permanent breast seed implant: automated plan reconstruction using simulated annealing. <i>Journal of Contemporary Brachytherapy</i> , 2019, 11, 61-68.	0.4	7
30	One-Year Cosmesis and Fibrosis From ACCEL: Accelerated Partial Breast Irradiation (APBI) Using 27ÂGy in 5 Daily Fractions. <i>Practical Radiation Oncology</i> , 2019, 9, e457-e464.	1.1	24
31	224 Radiation Doses to the Left Anterior Descending Artery and Heart in Left-Sided Breast Cancer Patients Treated with Deep Inspiration Breath Hold and Free Breathing Techniques. <i>Radiotherapy and Oncology</i> , 2019, 139, S93-S94.	0.3	0
32	A Framework for Clinical Validation of Automatic Contour Propagation: Standardizing Geometric and Dosimetric Evaluation. <i>Practical Radiation Oncology</i> , 2019, 9, 448-455.	1.1	5
33	Treatment planning considerations for permanent breast seed implant. <i>Brachytherapy</i> , 2018, 17, 456-464.	0.2	6
34	Development and characterization of an anthropomorphic breast phantom for permanent breast seed implant brachytherapy credentialing. <i>Brachytherapy</i> , 2018, 17, 506-513.	0.2	5
35	Demonstration of simulated annealing optimization for permanent breast seed implant treatment planning. <i>Brachytherapy</i> , 2018, 17, 615-620.	0.2	6
36	Appropriate timing for postimplant imaging in permanent breast seed implant: Results from a serial CT study. <i>Brachytherapy</i> , 2018, 17, 609-614.	0.2	8

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37	Five-field IMRT class solutions and dosimetric planning guidelines for implementing accelerated partial breast irradiation. <i>Practical Radiation Oncology</i> , 2018, 8, e99-e107.	1.1	14
38	A phase II trial to determine the cosmetic outcomes and toxicity of 27ÂGy in five-fraction accelerated partial breast irradiation: the ACCEL trial. <i>Journal of Radiation Oncology</i> , 2018, 7, 285-291.	0.7	11
39	Tracking Post-Implant Seed Migration in Permanent Breast Seed Implant. <i>Brachytherapy</i> , 2018, 17, S50.	0.2	2
40	Interstitial Gynecological Dose Comparisons Using Retrospective Adaptive Planning. <i>Brachytherapy</i> , 2018, 17, S115.	0.2	0
41	A framework for clinical commissioning of 3Dâ€printed patient support or immobilization devices in photon radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 499-505.	0.8	10
42	Geometric Quality Analysis for Permanent Breast Seed Implant. <i>Brachytherapy</i> , 2018, 17, S53.	0.2	0
43	Including internal mammary lymph nodes in radiation therapy for synchronous bilateral breast cancer: an international survey of treatment technique and clinical priorities. <i>Breast Cancer Research and Treatment</i> , 2018, 171, 471-475.	1.1	5
44	PO-0925: Timing of post-implant analysis in permanent breast seed implant: results from a serial CT study. <i>Radiotherapy and Oncology</i> , 2017, 123, S512-S513.	0.3	0
45	Automatic Post-Implant Reconstruction in Permanent Breast Seed Implant (PBSI) Using Simulated Annealing. <i>Brachytherapy</i> , 2017, 16, S100.	0.2	0
46	127: Dosimetric Comparison of 3D Conformal Radiation Therapy (3DCRT) and Volumetric ARC Therapy (VMAT) in Patients with Bilateral Breast Cancer with Indications for Adjuvant Radiation. <i>Radiotherapy and Oncology</i> , 2016, 120, S48.	0.3	1
47	115: Proposal for a Permanent Breast Seed Implant (PBSI) Training Program. <i>Radiotherapy and Oncology</i> , 2016, 120, S43.	0.3	2
48	103: Appropriate Timing for Post-Implant Dosimetry in Permanent Breast Seed Implant (PBSI). <i>Radiotherapy and Oncology</i> , 2016, 120, S40.	0.3	0
49	126: Comparison of TG43-Based Skin Dose Calculations to In-Vivo Skin Dosimetry for Permanent Breast PD-103 Seed Implant Brachytherapy. <i>Radiotherapy and Oncology</i> , 2016, 120, S47-S48.	0.3	0
50	Sci-Thur PM - Brachytherapy O2: Positional accuracy in Pd-103 permanent breast seed implant (PBSI) brachytherapy at the Tom Baker Cancer Centre (TBCC). <i>Medical Physics</i> , 2016, 43, 4933-4934.	1.6	1
51	Poster - 54: Development and Evaluation of Normal Tissue Objective Parameters and Avoidance Regions for Prostate Bed VMAT Treatments. <i>Medical Physics</i> , 2016, 43, 4949-4949.	1.6	0
52	Poster - 21: Verification of Monitor Unit Calculations for Breast Field-In-Field Three-Dimensional Conformal Radiotherapy Plans. <i>Medical Physics</i> , 2016, 43, 4940-4941.	1.6	0
53	Singular value decomposition analysis of a photoacoustic imaging system and 3D imaging at 07 FPS. <i>Optics Express</i> , 2011, 19, 13405.	1.7	11
54	Three-dimensional angular domain optical projection tomography. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0

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55	Development of a hand-held 3D photoacoustic imaging system for breast cancer detection. Proceedings of SPIE, 2010, , .	0.8	0
56	3D photoacoustic imaging. Proceedings of SPIE, 2010, , .	0.8	6
57	Localization of spherical lesions in tumor-mimicking phantoms by 3D sparse array photoacoustic imaging. Medical Physics, 2010, 37, 1619-1628.	1.6	13
58	Analysis of a photoacoustic imaging system by singular value decomposition. , 2010, , .		1
59	Characterization of sparse-array detection photoacoustic tomography using the singular value decomposition. , 2010, , .		1
60	Comparison of reconstruction algorithms for sparse-array detection photoacoustic tomography. Proceedings of SPIE, 2010, , .	0.8	4
61	Analysis of a photoacoustic imaging system by the crosstalk matrix and singular value decomposition. Optics Express, 2010, 18, 11406.	1.7	16
62	Poster "Thur Eve" 62: Analysis of a Photoacoustic Imaging System by Singular Value Decomposition. Medical Physics, 2010, 37, 3899-3899.	1.6	0
63	3D photoacoustic imaging of a moving target. Proceedings of SPIE, 2009, , .	0.8	1
64	Development and characterization of an omni-directional photoacoustic point source for calibration of a staring 3D photoacoustic imaging system. Optics Express, 2009, 17, 15228.	1.7	20
65	The effect of temperature and freeze-thaw processes on gold nanorods. Nanotechnology, 2009, 20, 505502.	1.3	10
66	Development of an omni-directional photoacoustic source for the characterization of a hemispherical sparse detector array. Proceedings of SPIE, 2009, , .	0.8	1
67	Four-dimensional photoacoustic imaging of moving targets. Optics Express, 2008, 16, 21570.	1.7	36