

Michael Roumeliotis

List of Publications by Year in descending order

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67
papers

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all docs

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docs citations

68
times ranked

414
citing authors

#	ARTICLE	IF	CITATIONS
1	Four-dimensional photoacoustic imaging of moving targets. <i>Optics Express</i> , 2008, 16, 21570.	1.7	36
2	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
3	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
4	Development and characterization of an omni-directional photoacoustic point source for calibration of a staring 3D photoacoustic imaging system. <i>Optics Express</i> , 2009, 17, 15228.	1.7	20
5	Analysis of a photoacoustic imaging system by the crosstalk matrix and singular value decomposition. <i>Optics Express</i> , 2010, 18, 11406.	1.7	16
6	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
7	Localization of spherical lesions in tumor-mimicking phantoms by 3D sparse array photoacoustic imaging. <i>Medical Physics</i> , 2010, 37, 1619-1628.	1.6	13
8	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
9	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
10	The effect of temperature and freeze-thaw processes on gold nanorods. <i>Nanotechnology</i> , 2009, 20, 505502.	1.3	10
11	A framework for clinical commissioning of 3D-printed patient support or immobilization devices in photon radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 499-505.	0.8	10
12	Results of the ACCEL trial: Dosimetry in accelerated partial breast irradiation. <i>Radiotherapy and Oncology</i> , 2020, 147, 50-55.	0.3	10
13	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
14	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
15	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
16	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
17	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
18	3D photoacoustic imaging. <i>Proceedings of SPIE</i> , 2010, , .	0.8	6

#	ARTICLE	IF	CITATIONS
19	Treatment planning considerations for permanent breast seed implant. <i>Brachytherapy</i> , 2018, 17, 456-464.	0.2	6
20	Demonstration of simulated annealing optimization for permanent breast seed implant treatment planning. <i>Brachytherapy</i> , 2018, 17, 615-620.	0.2	6
21	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
22	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
23	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
24	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
25	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
26	Competency-Based Medical Education in Radiation Therapy Treatment Planning. <i>Practical Radiation Oncology</i> , 2022, 12, e232-e238.	1.1	5
27	Comparison of reconstruction algorithms for sparse-array detection photoacoustic tomography. <i>Proceedings of SPIE</i> , 2010, , .	0.8	4
28	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
29	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
30	A Simulation-Based Education Program for Permanent Breast Seed Implant Brachytherapy. <i>Brachytherapy</i> , 2019, 18, S30-S31.	0.2	3
31	Technical Note: A standardized automation framework for monitoring institutional radiotherapy protocol compliance. <i>Medical Physics</i> , 2021, 48, 2661-2666.	1.6	3
32	Assessment of tissue toxicity risk in breast radiotherapy using Bayesian networks. <i>Medical Physics</i> , 2022, 49, 3585-3596.	1.6	3
33	115: Proposal for a Permanent Breast Seed Implant (PBSI) Training Program. <i>Radiotherapy and Oncology</i> , 2016, 120, S43.	0.3	2
34	Tracking Post-Implant Seed Migration in Permanent Breast Seed Implant. <i>Brachytherapy</i> , 2018, 17, S50.	0.2	2
35	Peer-based credentialing for brachytherapy: Application in permanent seed implant. <i>Brachytherapy</i> , 2020, 19, 794-799.	0.2	2
36	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

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37	Dosimetric consequences of seed placement accuracy in permanent breast seed implant brachytherapy. Brachytherapy, 2021, 20, 664-672.	0.2	2
38	Clinical Outcomes from Dose-Reduced Radiotherapy to the Prostate in Elderly Patients with Localized Prostate Cancer. Current Oncology, 2021, 28, 3729-3737.	0.9	2
39	Technical note: Commissioning of an ultrasound-compatible surrogate vaginal cylinder for transvaginal ultrasound-based gynecologic high-dose-rate brachytherapy. Medical Physics, 2022, 49, 2203-2211.	1.6	2
40	3D photoacoustic imaging of a moving target. Proceedings of SPIE, 2009, , .	0.8	1
41	Development of an omni-directional photoacoustic source for the characterization of a hemispherical sparse detector array. Proceedings of SPIE, 2009, , .	0.8	1
42	Analysis of a photoacoustic imaging system by singular value decomposition. , 2010, , .		1
43	Characterization of sparse-array detection photoacoustic tomography using the singular value decomposition. , 2010, , .		1
44	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. Radiotherapy and Oncology, 2016, 120, S48.	0.3	1
45	Analysis of outcomes after non-contour-based dose painting of dominant intra-epithelial lesion in intra-operative low-dose rate brachytherapy. Heliyon, 2020, 6, e04092.	1.4	1
46	Implementation of high-dose-rate brachytherapy for prostatic carcinoma in an unshielded operating room facility. Brachytherapy, 2021, 20, 58-65.	0.2	1
47	Excessive waitlists and delays to treatment with low-dose-rate brachytherapy predict an increased risk of recurrence and metastases in intermediate-risk prostatic carcinoma. Clinical and Translational Radiation Oncology, 2021, 30, 38-42.	0.9	1
48	Sci-Thur PM - Brachytherapy O2: Positional accuracy in Pd-103 permanent breast seed implant (PBSI) brachytherapy at the Tom Baker Cancer Centre (TBCC). Medical Physics, 2016, 43, 4933-4934.	1.6	1
49	An updated approach for deriving PTV margins using image guidance and deformable dose accumulation. Physics in Medicine and Biology, 2022, 67, 075004.	1.6	1
50	Development of a hand-held 3D photoacoustic imaging system for breast cancer detection. Proceedings of SPIE, 2010, , .	0.8	0
51	Three-dimensional angular domain optical projection tomography. Proceedings of SPIE, 2011, , .	0.8	0
52	103: Appropriate Timing for Post-Implant Dosimetry in Permanent Breast Seed Implant (PBSI). Radiotherapy and Oncology, 2016, 120, S40.	0.3	0
53	126: Comparison of TG43-Based Skin Dose Calculations to In-Vivo Skin Dosimetry for Permanent Breast PD-103 Seed Implant Brachytherapy. Radiotherapy and Oncology, 2016, 120, S47-S48.	0.3	0
54	PO-0925: Timing of post-implant analysis in permanent breast seed implant: results from a serial CT study. Radiotherapy and Oncology, 2017, 123, S512-S513.	0.3	0

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55	Automatic Post-Implant Reconstruction in Permanent Breast Seed Implant (PBSI) Using Simulated Annealing. Brachytherapy, 2017, 16, S100.	0.2	0
56	Interstitial Gynecological Dose Comparisons Using Retrospective Adaptive Planning. Brachytherapy, 2018, 17, S115.	0.2	0
57	Geometric Quality Analysis for Permanent Breast Seed Implant. Brachytherapy, 2018, 17, S53.	0.2	0
58	A Comparison of the Accumulated Dose for Two Partial Breast Techniques: Associated Uncertainties and Informed Decisions for Patient Care. Brachytherapy, 2019, 18, S50.	0.2	0
59	EP-1326 Assessment of rigorous dosimetry guidelines for a multi-institutional, phase II APBI clinical trial. Radiotherapy and Oncology, 2019, 133, S726-S727.	0.3	0
60	A Credentialing Method for Permanent Seed Implant Brachytherapy to Quantitatively Assess Implant Accuracy. Brachytherapy, 2019, 18, S42.	0.2	0
61	PO-1049 Assessing PTV margin adequacy in permanent breast seed implant for complex target geometries. Radiotherapy and Oncology, 2019, 133, S583-S584.	0.3	0
62	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. Radiotherapy and Oncology, 2019, 139, S93-S94.	0.3	0
63	176: A National Survey of Canadian Radiation Oncology (Ro) Professional Involvement in Cancer Control Projects in Low-Income and Middle-Income Countries (Lmic). Radiotherapy and Oncology, 2020, 150, S75.	0.3	0
64	PHSOR10 Presentation Time: 10:45 AM. Brachytherapy, 2021, 20, S28.	0.2	0
65	Poster "Thur Eve" 62: Analysis of a Photoacoustic Imaging System by Singular Value Decomposition. Medical Physics, 2010, 37, 3899-3899.	1.6	0
66	Poster - 54: Development and Evaluation of Normal Tissue Objective Parameters and Avoidance Regions for Prostate Bed VMAT Treatments. Medical Physics, 2016, 43, 4949-4949.	1.6	0
67	Poster - 21: Verification of Monitor Unit Calculations for Breast Field-In-Field Three-Dimensional Conformal Radiotherapy Plans. Medical Physics, 2016, 43, 4940-4941.	1.6	0