

Mirek Fatyga

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

393
citations

840776

11
h-index

794594

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28
all docs

28
docs citations

28
times ranked

479
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of respiratory motion on worst-case scenario optimized intensity modulated proton therapy for lung cancers. <i>Practical Radiation Oncology</i> , 2015, 5, e77-e86.	2.1	75
2	Improving IMRT dose accuracy via deliverable Monte Carlo optimization for the treatment of head and neck cancer patients. <i>Medical Physics</i> , 2006, 33, 4033-4043.	3.0	37
3	Impact of range shifter material on proton pencil beam spot characteristics. <i>Medical Physics</i> , 2015, 42, 1335-1340.	3.0	34
4	Technical Note: Integrating an open source Monte Carlo code "MCsquare" for clinical use in intensity-modulated proton therapy. <i>Medical Physics</i> , 2020, 47, 2558-2574.	3.0	34
5	Establishment of practice standards in nomenclature and prescription to enable construction of software and databases for knowledge-based practice review. <i>Practical Radiation Oncology</i> , 2016, 6, e117-e126.	2.1	26
6	Intensity-modulated proton therapy (IMPT) interplay effect evaluation of asymmetric breathing with simultaneous uncertainty considerations in patients with non-small cell lung cancer. <i>Medical Physics</i> , 2020, 47, 5428-5440.	3.0	20
7	Statins and Metformin Use Is Associated with Lower PSA Levels in Prostate Cancer Patients Presenting for Radiation Therapy. <i>Journal of Cancer Therapy</i> , 2017, 08, 73-85.	0.4	18
8	Beam angle comparison for distal esophageal carcinoma patients treated with intensity-modulated proton therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 141-152.	1.9	15
9	Exploratory Investigation of Dose-Linear Energy Transfer (LET) Volume Histogram (DLVH) for Adverse Events Study in Intensity Modulated Proton Therapy (IMPT). <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 1189-1199.	0.8	15
10	Technical Note: 4D robust optimization in small spot intensity-modulated proton therapy (IMPT) for distal esophageal carcinoma. <i>Medical Physics</i> , 2021, 48, 4636-4647.	3.0	14
11	A Voxel-by-Voxel Comparison of Deformable Vector Fields Obtained by Three Deformable Image Registration Algorithms Applied to 4DCT Lung Studies. <i>Frontiers in Oncology</i> , 2015, 5, 17.	2.8	13
12	Automation of routine elements for spot-scanning proton patient-specific quality assurance. <i>Medical Physics</i> , 2019, 46, 5-14.	3.0	13
13	Empirical Relative Biological Effectiveness (RBE) for Mandible Osteoradionecrosis (ORN) in Head and Neck Cancer Patients Treated With Pencil-Beam-Scanning Proton Therapy (PBSPT): A Retrospective, Case-Matched Cohort Study. <i>Frontiers in Oncology</i> , 2022, 12, 843175.	2.8	13
14	Per-voxel constraints to minimize hot spots in linear energy transfer-guided robust optimization for base of skull head and neck cancer patients in IMPT. <i>Medical Physics</i> , 2022, 49, 632-647.	3.0	12
15	GPU-accelerated Monte Carlo-based online adaptive proton therapy: A feasibility study. <i>Medical Physics</i> , 2022, 49, 3550-3563.	3.0	10
16	Patient Specific Characteristics Are an Important Factor That Determines the Risk of Acute Grade 2 Rectal Toxicity in Patients Treated for Prostate Cancer with IMRT and Daily Image Guidance Based on Implanted Gold Markers. <i>OMICS Journal of Radiology</i> , 2016, 5, .	0.0	8
17	Lung Dose for Minimally Moving Thoracic Lesions Treated With Respiration Gating. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 77, 285-291.	0.8	6
18	Detecting spatial susceptibility to cardiac toxicity of radiation therapy for lung cancer. <i>IIEE Transactions on Healthcare Systems Engineering</i> , 2020, 10, 243-250.	1.7	6

#	ARTICLE	IF	CITATIONS
19	Data collection of patient outcomes: one institution's experience. Journal of Radiation Research, 2018, 59, i19-i24.	1.6	5
20	Impact of planned dose reporting methods on Gamma pass rates for IROC lung and liver motion phantoms treated with pencil beam scanning protons. Radiation Oncology, 2019, 14, 108.	2.7	4
21	Three-Dimensionally Printed On-Skin Radiation Shields Using High-Density Filament. Practical Radiation Oncology, 2020, 10, e543-e550.	2.1	4
22	Impact of Cardiac Dose on Overall Survival in Lung Stereotactic Body Radiotherapy (SBRT) Compared to Conventionally Fractionated Radiotherapy for Locally Advanced Non-Small Cell Lung Cancer (LA-NSCLC). Journal of Cancer Therapy, 2021, 12, 409-423.	0.4	3
23	Designing and Implementing a Computing Framework for Image-Guided Radiation Therapy Research. Computing in Science and Engineering, 2012, 14, 57-68.	1.2	2
24	Integration of biological and statistical models toward personalized radiation therapy of cancer. IJSE Transactions, 2019, 51, 311-321.	2.4	2
25	Using Novel Statistical Techniques to Accurately Determine the Predictive Dose Range in a Study of Overall Survival after Definitive Radiotherapy for Stage III Non-Small Cell Lung Cancer in Association with Heart Dose. Journal of Cancer Therapy, 2021, 12, 505-529.	0.4	2
26	Spot scanning proton therapy plan assessment: design and development of a dose verification application for use in routine clinical practice. Proceedings of SPIE, 2016, . .	0.8	1
27	Technical Note: Multiple energy extraction techniques for synchrotron-based proton delivery systems may exacerbate motion interplay effects in lung cancer treatments. Medical Physics, 2021, 48, 4812-4823.	3.0	1
28	Implementation of Photon Treatment Back-up Workflow at a High-Volume Proton Center: Safety, Quality, and Patient Considerations. Practical Radiation Oncology, 2022, 12, e453-e459.	2.1	0