

# Bryan P Bednarz

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40  
papers

526  
citations

12  
h-index

22  
g-index

44  
ext. papers

758  
ext. citations

4.5  
avg, IF

3.73  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 40 | AAPM TG 158: Measurement and calculation of doses outside the treated volume from external-beam radiation therapy. <i>Medical Physics</i> , <b>2017</b> , 44, e391-e429   | 4.4  | 125       |
| 39 | AXL Is a Logical Molecular Target in Head and Neck Squamous Cell Carcinoma. <i>Clinical Cancer Research</i> , <b>2015</b> , 21, 2601-12   | 12.9 | 71        |
| 38 | (19)F-MRI for monitoring human NK cells in vivo. <i>Oncolmmunology</i> , <b>2016</b> , 5, e1143996  | 7.2  | 38        |
| 37 | The clinical impact of uncertainties in the mean excitation energy of human tissues during proton therapy. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 887-902   | 3.8  | 36        |
| 36 | Development and Validation of RAPID: A Patient-Specific Monte Carlo Three-Dimensional Internal Dosimetry Platform. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , <b>2018</b> , 33, 155-165                          | 3.9  | 28        |
| 35 | Current Status of Radiopharmaceutical Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , <b>2021</b> , 109, 891-901  | 4    | 18        |
| 34 | Uncertainties and correction methods when modeling passive scattering proton therapy treatment heads with Monte Carlo. <i>Physics in Medicine and Biology</i> , <b>2011</b> , 56, 2837-54                                 | 3.8  | 17        |
| 33 | A block matching based approach with multiple simultaneous templates for the real-time 2D ultrasound tracking of liver vessels. <i>Medical Physics</i> , <b>2017</b> , 44, 5889-5900                                      | 4.4  | 15        |
| 32 | Targeted Molecular Radiotherapy of Pediatric Solid Tumors Using a Radioiodinated Alkyl-Phospholipid Ether Analog. <i>Journal of Nuclear Medicine</i> , <b>2018</b> , 59, 244-250  | 8.9  | 14        |
| 31 | ARCHERT - a GPU-based and photon-electron coupled Monte Carlo dose computing engine for radiation therapy: software development and application to helical tomotherapy. <i>Medical Physics</i> , <b>2014</b> , 41, 071709 | 4.4  | 14        |
| 30 | Low-dose targeted radionuclide therapy renders immunologically cold tumors responsive to immune checkpoint blockade. <i>Science Translational Medicine</i> , <b>2021</b> , 13,  | 17.5 | 14        |
| 29 | Therapeutic combination of radiolabeled CLR1404 with external beam radiation in head and neck cancer model systems. <i>Radiotherapy and Oncology</i> , <b>2015</b> , 116, 504-9   | 5.3  | 12        |
| 28 | An analysis of the ArcCHECK-MR diode array's performance for ViewRay quality assurance. <i>Journal of Applied Clinical Medical Physics</i> , <b>2017</b> , 18, 161-171  | 2.3  | 11        |
| 27 | Preclinical Pharmacokinetics and Dosimetry Studies of I/I-CLR1404 for Treatment of Pediatric Solid Tumors in Murine Xenograft Models. <i>Journal of Nuclear Medicine</i> , <b>2019</b> , 60, 1414-1420                    | 8.9  | 10        |
| 26 | Temporal analysis of type 1 interferon activation in tumor cells following external beam radiotherapy or targeted radionuclide therapy. <i>Theranostics</i> , <b>2021</b> , 11, 6120-6137                                 | 12.1 | 10        |
| 25 | Preclinical Characterization of Y-NM600 in a Variety of Murine and Human Cancer Tumor Models. <i>Journal of Nuclear Medicine</i> , <b>2019</b> , 60, 1622-1628  | 8.9  | 9         |
| 24 | Murine-specific Internal Dosimetry for Preclinical Investigations of Imaging and Therapeutic Agents. <i>Health Physics</i> , <b>2018</b> , 114, 450-459   | 2.3  | 9         |

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|----|--|------|---|
| 23 | Improved production of Br, Br and Br via CoSe cyclotron targets and vertical dry distillation. <i>Nuclear Medicine and Biology</i> , <b>2020</b> , 80-81, 32-36  | 2.1  | 8 |
| 22 | CLR 125 Auger Electrons for the Targeted Radiotherapy of Triple-Negative Breast Cancer. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , <b>2018</b> , 33, 87-95  | 3.9  | 7 |
| 21 | High-throughput detection of DNA double-strand breaks using image cytometry. <i>BioTechniques</i> , <b>2015</b> , 58, 37-9   | 2.5  | 7 |
| 20 | Modeling Cell and Tumor-Metastasis Dosimetry with the Particle and Heavy Ion Transport Code System (PHITS) Software for Targeted Alpha-Particle Radionuclide Therapy. <i>Radiation Research</i> , <b>2018</b> , 190, 236-247 | 3.1  | 7 |
| 19 | Deformable abdominal phantom for the validation of real-time image guidance and deformable dose accumulation. <i>Journal of Applied Clinical Medical Physics</i> , <b>2019</b> , 20, 122-133                                 | 2.3  | 6 |
| 18 | Overview of the First NRG Oncology-National Cancer Institute Workshop on Dosimetry of Systemic Radiopharmaceutical Therapy. <i>Journal of Nuclear Medicine</i> , <b>2021</b> , 62, 1133-1139                                 | 8.9  | 5 |
| 17 | Respiration induced fiducial motion tracking in ultrasound using an extended SFA approach <b>2015</b> ,  |      | 3 |
| 16 | Assessment of out-of-field doses in radiotherapy treatments of paediatric patients using Monte Carlo methods and measurements. <i>Physica Medica</i> , <b>2020</b> , 71, 53-61   | 2.7  | 3 |
| 15 | A magnetic resonance compatible E4D ultrasound probe for motion management of radiation therapy <b>2017</b> ,  |      | 3 |
| 14 | Dosimetric comparison of DEFGEL and PAGAT formulae paired with an MRI acquisition. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 847,   | 0.3  | 3 |
| 13 | Biological characterization of a novel in vitro cell irradiator. <i>PLoS ONE</i> , <b>2017</b> , 12, e0189494  | 3.7  | 3 |
| 12 | Technical Note: Characterization of clinical linear accelerator triggering latency for motion management system development. <i>Medical Physics</i> , <b>2018</b> , 45, 4816-4821  | 4.4  | 3 |
| 11 | An improved abdominal phantom for intrafraction image guidance validation. <i>Physics in Medicine and Biology</i> , <b>2020</b> , 65, 13NT02   | 3.8  | 2 |
| 10 | New capabilities of the Monte Carlo dose engine ARCHER-RT: Clinical validation of the Varian TrueBeam machine for VMAT external beam radiotherapy. <i>Medical Physics</i> , <b>2020</b> , 47, 2537-2549                      | 4.4  | 2 |
| 9  | A Magnetic Resonance Compatible E4D Ultrasound Probe for Motion Management of Radiation Therapy. <i>IEEE Network</i> , <b>2017</b> , 2017,   | 11.4 | 2 |
| 8  | 3D dosimetric validation of ultrasound-guided radiotherapy with a dynamically deformable abdominal phantom. <i>Physica Medica</i> , <b>2021</b> , 84, 159-167  | 2.7  | 2 |
| 7  | Enhanced Radiosensitivity in Solid Tumors using a Tumor-selective Alkyl Phospholipid Ether Analog. <i>Molecular Cancer Therapeutics</i> , <b>2018</b> , 17, 2320-2328  | 6.1  | 1 |
| 6  | Investigation of tumor and vessel motion correlation in the liver. <i>Journal of Applied Clinical Medical Physics</i> , <b>2020</b> , 21, 183-190  | 2.3  | 1 |

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| 5 | Low-Dose Radiation Potentiates the Propagation of Anti-Tumor Immunity against Melanoma Tumor in the Brain after In Situ Vaccination at a Tumor outside the Brain. <i>Radiation Research</i> , <b>2021</b> , 195, 522-540          | 3.1 | 1 |
| 4 | Pretreatment CLR 124 Positron Emission Tomography Accurately Predicts CLR 131 Three-Dimensional Dosimetry in a Triple-Negative Breast Cancer Patient. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , <b>2019</b> , 34, 13-23 | 3.9 | 1 |
| 3 | Safety and feasibility of an in situ vaccination and immunomodulatory targeted radionuclide combination immuno-radiotherapy approach in a comparative (companion dog) setting. <i>PLoS ONE</i> , <b>2021</b> , 16, e0255798       | 3.7 | 1 |
| 2 | First-in-human imaging using a MR-compatible e4D ultrasound probe for motion management of radiotherapy. <i>Physica Medica</i> , <b>2021</b> , 88, 104-110  | 2.7 | 1 |
| 1 | Clinical Imaging and Dosimetry of a Pan-Cancer Targeting Alkylphosphocholine Analog, [124I]I-NM404. <i>Radiation</i> , <b>2022</b> , 2, 215-227   |     |   |