Bryan P Bednarz

List of Publications by Year
in descending order

44 papers	955 citations	516215 16 h-index	476904 29 g-index
44 all docs	44 docs citations	44 times ranked	1333 citing authors

#	Article	IF	Citations
1	<scp>AAPM TG</scp> 158: Measurement and calculation of doses outside the treated volume from externalâ€beam radiation therapy. Medical Physics, 2017, 44, e391-e429.	1.6	214
2	AXL Is a Logical Molecular Target in Head and Neck Squamous Cell Carcinoma. Clinical Cancer Research, 2015, 21, 2601-2612.	3.2	94
3	Low-dose targeted radionuclide therapy renders immunologically cold tumors responsive to immune checkpoint blockade. Science Translational Medicine, 2021, 13, .	5.8	92
4	¹⁹F-MRI for monitoring human NK cellsin vivo. OncoImmunology, 2016, 5, e1143996.	2.1	48
5	Current Status of Radiopharmaceutical Therapy. International Journal of Radiation Oncology Biology Physics, 2021, 109, 891-901.	0.4	44
6	Development and Validation of RAPID: A Patient-Specific Monte Carlo Three-Dimensional Internal Dosimetry Platform. Cancer Biotherapy and Radiopharmaceuticals, 2018, 33, 155-165.	0.7	42
7	The clinical impact of uncertainties in the mean excitation energy of human tissues during proton therapy. Physics in Medicine and Biology, 2013, 58, 887-902.	1.6	40
8	Temporal analysis of type 1 interferon activation in tumor cells following external beam radiotherapy or targeted radionuclide therapy. Theranostics, 2021, 11, 6120-6137.	4.6	34
9	ARCHER_{RT} - A GPU-based and photon-electron coupled Monte Carlo dose computing engine for radiation therapy: Software development and application to helical tomotherapy. Medical Physics, 2014, 41, 071709.	1.6	28
10	A block matching based approach with multiple simultaneous templates for the realâ€time 2D ultrasound tracking of liver vessels. Medical Physics, 2017, 44, 5889-5900.	1.6	26
11	Uncertainties and correction methods when modeling passive scattering proton therapy treatment heads with Monte Carlo. Physics in Medicine and Biology, 2011, 56, 2837-2854.	1.6	19
12	Therapeutic combination of radiolabeled CLR1404 with external beam radiation in head and neck cancer model systems. Radiotherapy and Oncology, 2015, 116, 504-509.	0.3	18
13	Targeted Molecular Radiotherapy of Pediatric Solid Tumors Using a Radioiodinated Alkyl-Phospholipid Ether Analog. Journal of Nuclear Medicine, 2018, 59, 244-250.	2.8	18
14	Modeling Cell and Tumor-Metastasis Dosimetry with the Particle and Heavy Ion Transport Code System (PHITS) Software for Targeted Alpha-Particle Radionuclide Therapy. Radiation Research, 2018, 190, 236.	0.7	18
15	Preclinical Pharmacokinetics and Dosimetry Studies of ¹²⁴I/¹³¹I-CLR1404 for Treatment of Pediatric Solid Tumors in Murine Xenograft Models. Journal of Nuclear Medicine, 2019, 60, 1414-1420.	2.8	18
16	Preclinical Characterization of ^{86/90}Y-NM600 in a Variety of Murine and Human Cancer Tumor Models. Journal of Nuclear Medicine, 2019, 60, 1622-1628.	2.8	16
17	Improved production of 76Br, 77Br and 80mBr via CoSe cyclotron targets and vertical dry distillation. Nuclear Medicine and Biology, 2020, 80-81, 32-36.	0.3	15
18	Murine-specific Internal Dosimetry for Preclinical Investigations of Imaging and Therapeutic Agents. Health Physics, 2018, 114, 450-459.	0.3	13

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19	An analysis of the Arc<scp>CHECK</scp>â€<scp>MR</scp> diode array's performance for ViewRay quality assurance. Journal of Applied Clinical Medical Physics, 2017, 18, 161-171.	0.8	12
20	Safety and feasibility of an in situ vaccination and immunomodulatory targeted radionuclide combination immuno-radiotherapy approach in a comparative (companion dog) setting. PLoS ONE, 2021, 16, e0255798.	1.1	12
21	High-throughput detection of DNA double-strand breaks using image cytometry. BioTechniques, 2015, 58, 37-39.	0.8	11
22	CLR 125 Auger Electrons for the Targeted Radiotherapy of Triple-Negative Breast Cancer. Cancer Biotherapy and Radiopharmaceuticals, 2018, 33, 87-95.	0.7	10
23	Deformable abdominal phantom for the validation of realâ€time image guidance and deformable dose accumulation. Journal of Applied Clinical Medical Physics, 2019, 20, 122-133.	0.8	10
24	New capabilities of the Monte Carlo dose engine ARCHERâ€RT: Clinical validation of the Varian TrueBeam machine for VMAT external beam radiotherapy. Medical Physics, 2020, 47, 2537-2549.	1.6	9
25	3D dosimetric validation of ultrasound-guided radiotherapy with a dynamically deformable abdominal phantom. Physica Medica, 2021, 84, 159-167.	0.4	9
26	ASTRO's Framework for Radiopharmaceutical Therapy Curriculum Development for Trainees. International Journal of Radiation Oncology Biology Physics, 2022, 113, 719-726.	0.4	9
27	Assessment of out-of-field doses in radiotherapy treatments of paediatric patients using Monte Carlo methods and measurements. Physica Medica, 2020, 71, 53-61.	0.4	8
28	Technical Note: Characterization of clinical linear accelerator triggering latency for motion management system development. Medical Physics, 2018, 45, 4816-4821.	1.6	7
29	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. Radiation Research, 2021, 195, 522-540.	0.7	6
30	A magnetic resonance compatible E4D ultrasound probe for motion management of radiation therapy. , 2017, 2017, .		5
31	Investigation of tumor and vessel motion correlation in the liver. Journal of Applied Clinical Medical Physics, 2020, 21, 183-190.	0.8	5
32	Overview of the First NRG Oncologyâ€“National Cancer Institute Workshop on Dosimetry of Systemic Radiopharmaceutical Therapy. Journal of Nuclear Medicine, 2021, 62, 1133-1139.	2.8	5
33	An improved abdominal phantom for intrafraction image guidance validation. Physics in Medicine and Biology, 2020, 65, 13NT02.	1.6	5
34	Toward Individualized Voxel-Level Dosimetry for Radiopharmaceutical Therapy. International Journal of Radiation Oncology Biology Physics, 2021, 109, 902-904.	0.4	5
35	A magnetic resonance compatible E4D ultrasound probe for motion management of radiation therapy. , 2017, , .		4
36	Dosimetric comparison of DEFGEL and PAGAT formulae paired with an MRI acquisition. Journal of Physics: Conference Series, 2017, 847, 012012.	0.3	4

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37	Enhanced Radiosensitivity in Solid Tumors using a Tumor-selective Alkyl Phospholipid Ether Analog. Molecular Cancer Therapeutics, 2018, 17, 2320-2328.	1.9	4
38	Biological characterization of a novel in vitro cell irradiator. PLoS ONE, 2017, 12, e0189494.	1.1	4
39	Respiration induced fiducial motion tracking in ultrasound using an extended SFA approach. Proceedings of SPIE, 2015, , .	0.8	3
40	Pretreatment CLR 124 Positron Emission Tomography Accurately Predicts CLR 131 Three-Dimensional Dosimetry in a Triple-Negative Breast Cancer Patient. Cancer Biotherapy and Radiopharmaceuticals, 2019, 34, 13-23.	0.7	3
41	Validation of Monte Carlo ¹³¹I radiopharmaceutical dosimetry workflow using a 3Dâ€printed anthropomorphic head and neck phantom. Medical Physics, 2022, 49, 5491-5503.	1.6	3
42	First-in-human imaging using a MR-compatible e4D ultrasound probe for motion management of radiotherapy. Physica Medica, 2021, 88, 104-110.	0.4	2
43	Static MLC transmission simulation using twoâ€dimensional ray tracing. Journal of Applied Clinical Medical Physics, 2022, 23, .	0.8	2
44	Clinical Imaging and Dosimetry of a Pan-Cancer Targeting Alkylphosphocholine Analog, [124I]I-NM404. Radiation, 2022, 2, 215-227.	0.6	1