

Sam Beddar

List of Publications by Year in Descending Order

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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.

110 papers	3,180 citations	35 h-index	53 g-index
117 ext. papers	3,786 ext. citations	3.1 avg, IF	5.36 L-index

#	Paper	IF	Citations
110	From conception to clinical trial: IViST, the first multi-sensor-based platform for real-time In Vivo Source Tracking in HDR brachytherapy. <i>Journal of Physics: Conference Series</i> , 2022 , 2167, 012024	0.3	
109	A novel proton-integrating radiography system design using a monolithic scintillator detector: experimental studies.. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2022 , 1027, 166077-166077	1.2	0
108	On the use of machine learning methods for mPSD calibration in HDR brachytherapy. <i>Physica Medica</i> , 2021 , 91, 73-79	2.7	0
107	Effectively Conducting Oncology Clinical Trials During the COVID-19 Pandemic. <i>Advances in Radiation Oncology</i> , 2021 , 6, 100676	3.3	2
106	Image quality evaluation of projection- and depth dose-based approaches to integrating proton radiography using a monolithic scintillator detector. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	2
105	3D source tracking and error detection in HDR using two independent scintillator dosimetry systems. <i>Medical Physics</i> , 2021 , 48, 2095-2107	4.4	2
104	Secondary Particle Interactions in a Compton Camera Designed for Range Verification of Proton Therapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021 , 5, 383-391	4.2	1
103	Recent Advances and Clinical Applications of Plastic Scintillators in the Field of Radiation Therapy. <i>Topics in Applied Physics</i> , 2021 , 425-460	0.5	1
102	Dosimetric Uncertainties Resulting From Interfractional Anatomic Variations for Patients Receiving Pancreas Stereotactic Body Radiation Therapy and Cone Beam Computed Tomography Image Guidance. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 111, 1298-1309	4	1
101	A high-Z inorganic scintillator-based detector for time-resolved in vivo dosimetry during brachytherapy. <i>Medical Physics</i> , 2021 , 48, 7382-7398	4.4	2
100	Stereotactic Versus Conventional Radiation Therapy for Patients With Pancreatic Cancer in the Modern Era.. <i>Advances in Radiation Oncology</i> , 2021 , 6, 100763	3.3	5
99	. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2021 , 1-1	4.2	0
98	Evaluation of the Visibility and Artifacts of 11 Common Fiducial Markers for Image Guided Stereotactic Body Radiation Therapy in the Abdomen. <i>Practical Radiation Oncology</i> , 2020 , 10, 434-442	2.8	9
97	Ionization quenching correction for a 3D scintillator detector exposed to scanning proton beams. <i>Physics in Medicine and Biology</i> , 2020 , 65, 075005	3.8	3
96	Computational model for detector timing effects in Compton-camera based prompt-gamma imaging for proton radiotherapy. <i>Physics in Medicine and Biology</i> , 2020 , 65, 125004	3.8	6
95	Enhancement pattern mapping technique for improving contrast-to-noise ratios and detectability of hepatobiliary tumors on multiphase computed tomography. <i>Medical Physics</i> , 2020 , 47, 64-74	4.4	3
94	From multisource data to clinical decision aids in radiation oncology: The need for a clinical data science community. <i>Radiotherapy and Oncology</i> , 2020 , 153, 43-54	5.3	5

93	dosimetry in brachytherapy: Requirements and future directions for research, development, and clinical practice. <i>Physics and Imaging in Radiation Oncology</i> , 2020 , 16, 1-11	3.1	18
92	In vivo dosimetry in external beam photon radiotherapy: Requirements and future directions for research, development, and clinical practice. <i>Physics and Imaging in Radiation Oncology</i> , 2020 , 15, 108-116	3.1	17
91	Dosimetric performance of a multipoint plastic scintillator dosimeter as a tool for real-time source tracking in high dose rate Ir brachytherapy. <i>Medical Physics</i> , 2020 , 47, 4477-4490	4.4	8
90	Inorganic scintillation detectors for Ir brachytherapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 225018	3.8	9
89	Quality assurance for Gamma Knife Perfexion using the Exradin W1 plastic scintillation detector and Lucy phantom. <i>Physics in Medicine and Biology</i> , 2019 , 64, 225007	3.8	6
88	Assessment of setup uncertainty in hypofractionated liver radiation therapy with a breath-hold technique using automatic image registration-based image guidance. <i>Radiation Oncology</i> , 2019 , 14, 154	4.2	5
87	A novel imaging scheme for optical cameras used in a quality assurance detector for discrete spot scanning proton beam systems. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019 , 939, 16-21	1.2	3
86	Optimization of a multipoint plastic scintillator dosimeter for high dose rate brachytherapy. <i>Medical Physics</i> , 2019 , 46, 2412-2421	4.4	16
85	Proton beam therapy outcomes for localized unresectable hepatocellular carcinoma. <i>Radiotherapy and Oncology</i> , 2019 , 133, 54-61	5.3	23
84	A proton imaging system using a volumetric liquid scintillator: a preliminary study. <i>Biomedical Physics and Engineering Express</i> , 2019 , 5,	1.5	6
83	A real-time method to simultaneously measure linear energy transfer and dose for proton therapy using organic scintillators. <i>Medical Physics</i> , 2018 , 45, 1782-1789	4.4	14
82	Exradin W1 plastic scintillation detector for in vivo skin dosimetry in passive scattering proton therapy. <i>Physica Medica</i> , 2018 , 47, 58-63	2.7	6
81	A methodology to investigate the impact of image distortions on the radiation dose when using magnetic resonance images for planning. <i>Physics in Medicine and Biology</i> , 2018 , 63, 085005	3.8	14
80	Effect of Magnetic Field Strength on Plastic Scintillation Detector Response. <i>Radiation Measurements</i> , 2018 , 116, 10-13	1.5	15
79	Dose escalation for locally advanced pancreatic cancer: How high can we go?. <i>Advances in Radiation Oncology</i> , 2018 , 3, 693-700	3.3	14
78	Inorganic scintillation detectors based on Eu-activated phosphors for Ir brachytherapy. <i>Physics in Medicine and Biology</i> , 2017 , 62, 5046-5075	3.8	15
77	Feasibility Studies of a New Event Selection Method to Improve Spatial Resolution of Compton Imaging for Medical Applications. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2017 , 1, 358-367	4.2	11
76	Validation of plastic scintillation detectors for applications in low-dose-rate brachytherapy. <i>Brachytherapy</i> , 2017 , 16, 903-909	2.4	8

75	Performance characterization of a 3D liquid scintillation detector for discrete spot scanning proton beam systems. <i>Physics in Medicine and Biology</i> , 2017 , 62, 5652-5667	3.8	18
74	Does Unintentional Splenic Radiation Predict Outcomes After Pancreatic Cancer Radiation Therapy?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 97, 323-332	4	55
73	Determination of the Range and Spread-Out Bragg Peak Width of Proton Beams Using a Large-Volume Liquid Scintillator. <i>International Journal of Particle Therapy</i> , 2017 , 4, 1-6	1.5	5
72	A systematic characterization of the low-energy photon response of plastic scintillation detectors. <i>Physics in Medicine and Biology</i> , 2016 , 61, 5569-86	3.8	20
71	Review of plastic and liquid scintillation dosimetry for photon, electron, and proton therapy. <i>Physics in Medicine and Biology</i> , 2016 , 61, R305-R343	3.8	75
70	Focal Radiation Therapy Dose Escalation Improves Overall Survival in Locally Advanced Pancreatic Cancer Patients Receiving Induction Chemotherapy and Consolidative Chemoradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2016 , 94, 755-65	4	194
69	Plastic scintillation detectors: Basic properties. <i>Imaging in Medical Diagnosis and Therapy</i> , 2016 , 53-72		
68	Quenching of scintillation light. <i>Imaging in Medical Diagnosis and Therapy</i> , 2016 , 21-36		
67	3D liquid scintillation dosimetry for photons and protons. <i>Imaging in Medical Diagnosis and Therapy</i> , 2016 , 271-289		
66	In vivo dosimetry I: External beam radiation therapy. <i>Imaging in Medical Diagnosis and Therapy</i> , 2016 , 135-151		
65	Reply to Comment on Tmaging of prompt gamma rays emitted during delivery of clinical proton beams with a Compton camera: feasibility studies for range verificationT <i>Physics in Medicine and Biology</i> , 2016 , 61, 8945-8946	3.8	
64	4D MR imaging using robust internal respiratory signal. <i>Physics in Medicine and Biology</i> , 2016 , 61, 3472-83	3.8	19
63	Ruby-based inorganic scintillation detectors for Ir brachytherapy. <i>Physics in Medicine and Biology</i> , 2016 , 61, 7744-7764	3.8	9
62	Systematic evaluation of photodetector performance for plastic scintillation dosimetry. <i>Medical Physics</i> , 2015 , 42, 6211-20	4.4	14
61	Internal respiratory surrogate in multislice 4D CT using a combination of Fourier transform and anatomical features. <i>Medical Physics</i> , 2015 , 42, 4338-48	4.4	5
60	Characterization of a fiber-taper charge-coupled device system for plastic scintillation dosimetry and comparison with the traditional lens system. <i>Radiation Measurements</i> , 2015 , 73, 60-68	1.5	1
59	A method to correct for temperature dependence and measure simultaneously dose and temperature using a plastic scintillation detector. <i>Physics in Medicine and Biology</i> , 2015 , 60, 7927-39	3.8	11
58	Fast range measurement of spot scanning proton beams using a volumetric liquid scintillator detector. <i>Biomedical Physics and Engineering Express</i> , 2015 , 1,	1.5	9

57	Imaging of prompt gamma rays emitted during delivery of clinical proton beams with a Compton camera: feasibility studies for range verification. <i>Physics in Medicine and Biology</i> , 2015 , 60, 7085-99	3.8	82
56	Passively scattered proton beam entrance dosimetry with a plastic scintillation detector. <i>Physics in Medicine and Biology</i> , 2015 , 60, 1185-98	3.8	8
55	Calculations and measurements of the scintillator-to-water stopping power ratio of liquid scintillators for use in proton radiotherapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015 , 776, 15-20	1.2	5
54	Optical artefact characterization and correction in volumetric scintillation dosimetry. <i>Physics in Medicine and Biology</i> , 2014 , 59, 23-42	3.8	32
53	Real-time in vivo rectal wall dosimetry using plastic scintillation detectors for patients with prostate cancer. <i>Physics in Medicine and Biology</i> , 2014 , 59, 647-60	3.8	38
52	Preliminary evaluation of the dosimetric accuracy of the in vivo plastic scintillation detector OARtrac system for prostate cancer treatments. <i>Physics in Medicine and Biology</i> , 2014 , 59, N27-36	3.8	13
51	Detecting prompt gamma emission during proton therapy: the effects of detector size and distance from the patient. <i>Physics in Medicine and Biology</i> , 2014 , 59, 2325-40	3.8	27
50	In vivo dosimetry: trends and prospects for brachytherapy. <i>British Journal of Radiology</i> , 2014 , 87, 20140206	3.4	48
49	Variation of $k_{Q_{clin}}$, Q_{msr} (f_{clin} , f_{msr}) for the small-field dosimetric parameters percentage depth dose, tissue-maximum ratio, and off-axis ratio. <i>Medical Physics</i> , 2014 , 41, 101708	4.4	65
48	Novel, full 3D scintillation dosimetry using a static plenoptic camera. <i>Medical Physics</i> , 2014 , 41, 082101	4.4	25
47	Intraoperative radiation therapy for locally advanced primary and recurrent colorectal cancer: ten-year institutional experience. <i>Journal of Surgical Oncology</i> , 2014 , 109, 652-8	2.8	34
46	3D reconstruction of scintillation light emission from proton pencil beams using limited viewing angles-a simulation study. <i>Physics in Medicine and Biology</i> , 2014 , 59, 4477-92	3.8	14
45	Study of the Angular Dependence of a Prompt Gamma Detector Response during Proton Radiation Therapy. <i>International Journal of Particle Therapy</i> , 2014 , 1, 731-744	1.5	1
44	In vivo dosimetry in brachytherapy. <i>Medical Physics</i> , 2013 , 40, 070902	4.4	112
43	Duodenal toxicity after fractionated chemoradiation for unresectable pancreatic cancer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013 , 85, e143-9	4	68
42	The effects of Doppler broadening and detector resolution on the performance of three-stage Compton cameras. <i>Medical Physics</i> , 2013 , 40, 012402	4.4	18
41	In vivo dosimetry in external beam radiotherapy. <i>Medical Physics</i> , 2013 , 40, 070903	4.4	188
40	Temperature dependence of BCF plastic scintillation detectors. <i>Physics in Medicine and Biology</i> , 2013 , 58, 2955-67	3.8	50

39	Quenching correction for volumetric scintillation dosimetry of proton beams. <i>Physics in Medicine and Biology</i> , 2013 , 58, 261-73	3.8	42
38	On the nature of the light produced within PMMA optical light guides in scintillation fiber-optic dosimetry. <i>Physics in Medicine and Biology</i> , 2013 , 58, 2073-84	3.8	66
37	Performance assessment of a 2D array of plastic scintillation detectors for IMRT quality assurance. <i>Physics in Medicine and Biology</i> , 2013 , 58, 4439-54	3.8	12
36	Measurement of characteristic prompt gamma rays emitted from oxygen and carbon in tissue-equivalent samples during proton beam irradiation. <i>Physics in Medicine and Biology</i> , 2013 , 58, 5821-31	3.8	53
35	On the use of a single-fiber multipoint plastic scintillation detector for ¹⁹² Ir high-dose-rate brachytherapy. <i>Medical Physics</i> , 2013 , 40, 062101	4.4	29
34	A comparative study of small field total scatter factors and dose profiles using plastic scintillation detectors and other stereotactic dosimeters: the case of the CyberKnife. <i>Medical Physics</i> , 2013 , 40, 011719	4.4	67
33	In-phantom dose verification of prostate IMRT and VMAT deliveries using plastic scintillation detectors. <i>Radiation Measurements</i> , 2012 , 47, 921-929	1.5	20
32	Reproducibility and genital sparing with a vaginal dilator used for female anal cancer patients. <i>Radiotherapy and Oncology</i> , 2012 , 104, 161-6	5.3	21
31	Dosimetric performance and array assessment of plastic scintillation detectors for stereotactic radiosurgery quality assurance. <i>Medical Physics</i> , 2012 , 39, 429-36	4.4	53
30	Evaluation of a stochastic reconstruction algorithm for use in Compton camera imaging and beam range verification from secondary gamma emission during proton therapy. <i>Physics in Medicine and Biology</i> , 2012 , 57, 3537-53	3.8	52
29	On possible temperature dependence of plastic scintillator response. <i>Medical Physics</i> , 2012 , 39, 6522	4.4	29
28	A mathematical formalism for hyperspectral, multipoint plastic scintillation detectors. <i>Physics in Medicine and Biology</i> , 2012 , 57, 7133-45	3.8	31
27	Development of a novel multi-point plastic scintillation detector with a single optical transmission line for radiation dose measurement. <i>Physics in Medicine and Biology</i> , 2012 , 57, 7147-59	3.8	32
26	Validating plastic scintillation detectors for photon dosimetry in the radiologic energy range. <i>Medical Physics</i> , 2012 , 39, 5308-16	4.4	38
25	Verification of proton range, position, and intensity in IMPT with a 3D liquid scintillator detector system. <i>Medical Physics</i> , 2012 , 39, 1239-46	4.4	45
24	Proton dose perturbations caused by high-voltage leads from implanted cardioverter defibrillators. <i>Journal of Applied Clinical Medical Physics</i> , 2012 , 13, 3813	2.3	2
23	Comparative analysis of volumetric modulated arc therapy versus intensity modulated radiation therapy for radiotherapy of anal carcinoma. <i>Practical Radiation Oncology</i> , 2011 , 1, 163-72	2.8	7
22	A new water-equivalent 2D plastic scintillation detectors array for the dosimetry of megavoltage energy photon beams in radiation therapy. <i>Medical Physics</i> , 2011 , 38, 6763-74	4.4	48

21	Spectral method for the correction of the Cerenkov light effect in plastic scintillation detectors: a comparison study of calibration procedures and validation in Cerenkov light-dominated situations. <i>Medical Physics</i> , 2011 , 38, 2140-50	4.4	93
20	Study of the response of plastic scintillation detectors in small-field 6 MV photon beams by Monte Carlo simulations. <i>Medical Physics</i> , 2011 , 38, 1596-9	4.4	30
19	Intensity modulated radiation therapy (IMRT): differences in target volumes and improvement in clinically relevant doses to small bowel in rectal carcinoma. <i>Radiation Oncology</i> , 2011 , 6, 63	4.2	63
18	Technical note: removing the stem effect when performing Ir-192 HDR brachytherapy in vivo dosimetry using plastic scintillation detectors: a relevant and necessary step. <i>Medical Physics</i> , 2011 , 38, 2176-9	4.4	40
17	A phantom study of an in vivo dosimetry system using plastic scintillation detectors for real-time verification of 192Ir HDR brachytherapy. <i>Medical Physics</i> , 2011 , 38, 2542-51	4.4	66
16	Material efficiency studies for a Compton camera designed to measure characteristic prompt gamma rays emitted during proton beam radiotherapy. <i>Physics in Medicine and Biology</i> , 2011 , 56, 3047-59 ⁸	3.8	36
15	Measuring Prompt Gamma Ray Emission During Proton Radiotherapy For Assessment Of Treatment Delivery And Patient Response 2011 ,		4
14	Toward a real-time in vivo dosimetry system using plastic scintillation detectors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010 , 78, 280-7	4	68
13	Respiratory gating with EPID-based verification: the MDACC experience. <i>Physics in Medicine and Biology</i> , 2009 , 54, 3379-91	3.8	16
12	Liquid scintillator for 2D dosimetry for high-energy photon beams. <i>Medical Physics</i> , 2009 , 36, 1478-85	4.4	35
11	Dose escalation with proton or photon radiation treatment for pancreatic cancer. <i>Radiotherapy and Oncology</i> , 2009 , 92, 238-43	5.3	47
10	Exploration of the potential of liquid scintillators for real-time 3D dosimetry of intensity modulated proton beams. <i>Medical Physics</i> , 2009 , 36, 1736-43	4.4	63
9	Characterizing the response of miniature scintillation detectors when irradiated with proton beams. <i>Physics in Medicine and Biology</i> , 2008 , 53, 1865-76	3.8	52
8	Transient noise characterization and filtration in CCD cameras exposed to stray radiation from a medical linear accelerator. <i>Medical Physics</i> , 2008 , 35, 4342-51	4.4	38
7	Proton radiotherapy for liver tumors: dosimetric advantages over photon plans. <i>Medical Dosimetry</i> , 2008 , 33, 259-67	1.3	69
6	Radiotherapy for hepatocellular carcinoma: an overview. <i>Annals of Surgical Oncology</i> , 2008 , 15, 1015-24	3.1	70
5	Retroperitoneal soft tissue sarcoma: an analysis of radiation and surgical treatment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 67, 158-63	4	117
4	Determination of prospective displacement-based gate threshold for respiratory-gated radiation delivery from retrospective phase-based gate threshold selected at 4D CT simulation. <i>Medical Physics</i> , 2007 , 34, 4247-55	4.4	14

3	High-dose-rate remote afterloaders for intraoperative radiation therapy. <i>AORN Journal</i> , 2007 , 86, 827-36; quiz 837-40	0.6	3
2	Four-year biochemical outcome after radioimmunoguided transperineal brachytherapy for patients with prostate adenocarcinoma. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 57, 362-70	4	37
1	Radioimmunoguided imaging of prostate cancer foci with histopathological correlation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001 , 49, 1281-6	4	55