Charles Bloch

List of Publications by Year
in descending order

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94	1,420	304743	345221
papers	citations	22 h-index	36 g-index

95	95	95	1346
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Doseâ€“Response for Stereotactic Body Radiotherapy in Early-Stage Nonâ€“Small-Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2011, 81, e299-e303.	0.8	109
2	Dosimetric evaluation of a commercial proton spot scanning Monte-Carlo dose algorithm: comparisons against measurements and simulations. Physics in Medicine and Biology, 2017, 62, 7659-7681.	3.0	102
3	Dosimetric predictors of chest wall pain after lung stereotactic body radiotherapy. Radiotherapy and Oncology, 2012, 104, 23-27.	0.6	63
4	Versatility of the Novalis System to Deliver Image-Guided Stereotactic Body Radiation Therapy (SBRT) for Various Anatomical Sites. Technology in Cancer Research and Treatment, 2007, 6, 347-354.	1.9	62
5	Dosimetric accuracy of Kodak EDR2 film for IMRT verifications. Medical Physics, 2005, 32, 539-548.	3.0	61
6	The treatment of primary and metastatic renal cell carcinoma (RCC) with image-guided stereotactic body radiation therapy (SBRT). Biomedical Imaging and Intervention Journal, 2007, 3, e6.	0.5	54
7	Charge symmetry breaking innâ†'-pâ†' scattering at 183 MeV. Physical Review C, 1992, 46, 410-448.	2.9	47
8	Proton therapy for exudative age-related macular degeneration: a randomized, sham-controlled clinical trial. American Journal of Ophthalmology, 2002, 134, 905-906.	3.3	47
9	Phantom assessment of lung dose from proton arc therapy. International Journal of Radiation Oncology Biology Physics, 1997, 38, 891-897.	0.8	40
10	Nuclear temperatures in the reaction ofN14with Ag at 35 MeV/nucleon. Physical Review C, 1985, 32, 877-886.	2.9	39
11	Estimate of the uncertainties in the relative risk of secondary malignant neoplasms following proton therapy and intensity-modulated photon therapy. Physics in Medicine and Biology, 2010, 55, 6987-6998.	3.0	39
12	Supine Craniospinal Irradiation Using Intrafractional Junction Shifts and Field-in-Field Dose Shaping: Early Experience at Methodist Hospital. International Journal of Radiation Oncology Biology Physics, 2008, 71, 477-483.	0.8	37
13	Proton dosimetry intercomparison based on the ICRU report 59 protocol. Radiotherapy and Oncology, 1999, 51, 273-279.	0.6	34
14	Retrospective analysis of 2D patient-specific IMRT verifications. Medical Physics, 2005, 32, 838-850.	3.0	34
15	Dosimetric benefits of respiratory gating: a preliminary study. Journal of Applied Clinical Medical Physics, 2004, 5, 16-24.	1.9	34
16	Dose properties of a laser accelerated electron beam and prospects for clinical application. Medical Physics, 2004, 31, 2053-2067.	3.0	33
17	Charge-symmetry violation in neutron-proton elastic scattering atEn=183 MeV. Physical Review Letters, 1991, 66, 1410-1413.	7.8	32
18	Measurement of QuasielasticHe3(pâ†',ÂpN)Scattering from PolarizedHe3and the Three-Body Ground State Spin Structure. Physical Review Letters, 1995, 74, 502-505.	7.8	32

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19	Observation of high energy gamma rays in intermediate energy nucleus-nucleus collisions. Physical Review C, 1985, 32, 1111-1113.	2.9	31
20	Advanced Proton Beam Dosimetry Part I: review and performance evaluation of dose calculation algorithms. Translational Lung Cancer Research, 2018, 7, 171-179.	2.8	31
21	Determination of output factors for small proton therapy fields. Medical Physics, 2007, 34, 489-498.	3.0	27
22	Measurement of spin observables using a storage ring with polarized beam and polarized internal gas target. Physical Review Letters, 1993, 70, 738-741.	7.8	24
23	Information technology resource management in radiation oncology[*]. Journal of Applied Clinical Medical Physics, 2009, 10, 16-35.	1.9	21
24	Thermal population of nuclear excited states. Physical Review C, 1986, 34, 761-763.	2.9	20
25	A test of charge symmetry in n-p scattering at En = 183 MeV. Nuclear Physics A, 1990, 508, 185-195.	1.5	20
26	Detection of IMRT delivery errors using a quantitative 2D dosimetric verification system. Medical Physics, 2004, 32, 153-162.	3.0	20
27	Neutron decay of excited nuclear states in heavy ion collisions. Physical Review C, 1987, 36, 203-207.	2.9	18
28	A rapid communication from the AAPM Task Group 201: Recommendations for the QA of external beam radiotherapy data transfer. AAPM TG 201: Quality assurance of external beam radiotherapy data transfer. Journal of Applied Clinical Medical Physics, 2011, 12, 170-181.	1.9	18
29	Depth ionization curves for an unmodulated proton beam measured with different ionization chambers. Medical Physics, 2000, 27, 2780-2787.	3.0	17
30	Parametric characterization of penumbra reduction for aperture-collimated pencil beam scanning (PBS) proton therapy. Biomedical Physics and Engineering Express, 2019, 5, 035002.	1.2	17
31	The masses of 51Ca and 47Ar. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 162, 87-91.	4.1	16
32	Neutrons in coincidence with intermediate mass fragments at large angles fromN14+Ag reactions atE/A=20and 35 MeV. Physical Review C, 1988, 37, 2469-2486.	2.9	16
33	Evaluation of neutron dose equivalent from the Mevion S250 proton accelerator: measurements and calculations. Physics in Medicine and Biology, 2013, 58, 8709-8723.	3.0	16
34	Mass ofCu57. Physical Review C, 1985, 31, 875-878.	2.9	15
35	Dosimetric benefits of respiratory gating: a preliminary study. Journal of Applied Clinical Medical Physics, 2004, 5, 1-9.	1.9	15
36	Pathologic Complete Response in Renal Cell Carcinoma Brain Metastases Treated with Stereotactic Radiosurgery. Clinical Genitourinary Cancer, 2007, 5, 334-337.	1.9	15

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37	High energy gamma ray production in proton-induced reactions at 104, 145, and 195 MeV. Physical Review C, 1992, 45, 1815-1821.	2.9	14
38	Comparison of Indiana University Cyclotron Facility Faraday cup proton dosimetry with radiochromic films, a calorimeter, and a calibrated ion chamber. IEEE Transactions on Nuclear Science, 1999, 46, 1762-1765.	2.0	13
39	Effect ofBe8decay on nuclear temperature measurements. Physical Review C, 1986, 34, 850-857.	2.9	11
40	Mass ofSc39via the40Ca(7Li,8He) reaction. Physical Review C, 1988, 38, 737-740.	2.9	10
41	Proton-deuteron bremsstrahlung at 145 and 195 MeV. Physical Review C, 1992, 45, 1810-1814.	2.9	9
42	Dual scattering foil design for poly-energetic electron beams. Physics in Medicine and Biology, 2005, 50, 755-767.	3.0	9
43	Validation and practical implementation of seated position radiotherapy in a commercial TPS for proton therapy. Physica Medica, 2020, 80, 175-185.	0.7	8
44	A machine learning-based framework for delivery error prediction in proton pencil beam scanning using irradiation log-files. Physica Medica, 2020, 78, 179-186.	0.7	7
45	New test of the excited state population method for measurements of nuclear temperatures. Physical Review C, 1990, 41, 2406-2409.	2.9	6
46	Evaluation and Application of U.S. Medical Proton Facilities for Single Event Effects Test. IEEE Transactions on Nuclear Science, 2015, 62, 2490-2497.	2.0	6
47	The Indiana University proton radiation therapy project. Nuclear Instruments & Methods in Physics Research B, 1993, 79, 890-894.	1.4	5
48	Spin correlation and analyzing power measurements for neutron-proton radiative capture atTn=183 MeV. Physical Review Letters, 1993, 70, 3205-3208.	7.8	5
49	Evaluation of ceramic marker for the treatment of ocular melanoma with proton therapy. Biomedical Physics and Engineering Express, 2017, 3, 027003.	1.2	5
50	4D computed tomography scans for conformal thoracic treatment planning: is a single scan sufficient to capture thoracic tumor motion?. Physics in Medicine and Biology, 2018, 63, 02NT03.	3.0	5
51	Three discipline collaborative radiation therapy (3DCRT) special debate: The United States needs at least one carbon ion facility. Journal of Applied Clinical Medical Physics, 2019, 20, 6-13.	1.9	5
52	Treatment of ocular tumors through a novel applicator on a conventional proton pencil beam scanning beamline. Scientific Reports, 2022, 12, 4648.	3.3	5
53	Dose properties of x-ray beams produced by laser-wakefield-accelerated electrons. Physics in Medicine and Biology, 2005, 50, N1-N10.	3.0	4
54	Optimizing field patching in passively scattered proton therapy with the use of beam current modulation. Physics in Medicine and Biology, 2013, 58, 5527-5539.	3.0	4

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55	Comparative N gas measurements for a parallel plate chamber in proton, electron, and 60 Co beams. Medical Physics, 1995, 22, 2057-2063.	3.0	3
56	Calculating percent depth dose with the electron pencil-beam redefinition algorithm. Journal of Applied Clinical Medical Physics, 2007, 8, 61-75.	1.9	3
57	Dosimetric Prediction of Chest Wall Toxicity after Lung SBRT. International Journal of Radiation Oncology Biology Physics, 2010, 78, S181-S182.	0.8	3
58	Dosimetric Comparison of TG-43 Formalism with Brachyvision Acuros and Monte Carlo Method for Patients Treated with the Savi Partial Breast Applicator. Brachytherapy, 2013, 12, S22-S23.	0.5	3
59	Temperature distributions in nuclear collisions: Brief discussion and simple example. Physical Review C, 1987, 36, 855-857.	2.9	2
60	Acceptance Testing for the Monarch-250 Proton Radiotherapy Unit. International Journal of Radiation Oncology Biology Physics, 2010, 78, S807.	0.8	2
61	Proton Therapy At Siteman Cancer Center: The State Of The Art. , 2011, , .		2
62	Startup of the Kling Center for Proton Therapy. , 2013, , .		2
63	A Comparison between Pencil Beam and Monte Carlo Algorithms Against Film Measurements in an Anthropomorphic Phantom for Proton Spot Scanning. International Journal of Radiation Oncology Biology Physics, 2017, 99, E717-E718.	0.8	2
64	SU-E-T-303: Neutron Measurements for the Monarch-250 Proton Accelerator. Medical Physics, 2011, 38, 3557-3557.	3.0	2
65	Results from a new temperature measurement in nuclear reactions. Nuclear Physics A, 1986, 447, 603-608.	1.5	1
66	Radiative capture of polarized neutrons by polarized protons atTn=183MeV. Physical Review C, 1995, 52, 2859-2874.	2.9	1
67	The midwest proton therapy center. AIP Conference Proceedings, 1997, , .	0.4	1
68	Linearity and uniformity response as an indicator of performance for Agfa ADC-MD10 computed radiography plates. Medical Dosimetry, 2004, 29, 118-121.	0.9	1
69	Dosimetric Comparison of TG-43 Formalism with BrachyVision Acuros and Monte Carlo Method for Partial Breast Irradiation with MammoSite Device. Brachytherapy, 2013, 12, S60-S61.	0.5	1
70	Clinical Impact of Spatial Variations in Proton Relative Biological Effectiveness (RBE) Among Patients Receiving Radiation to the Prostate and Thorax. International Journal of Radiation Oncology Biology Physics, 2016, 96, S214-S215.	0.8	1
71	Clinical Impact of Spatial Variations in Proton Relative Biological Effectiveness (RBE) Among Patients Receiving Radiation to the Head and Neck. International Journal of Radiation Oncology Biology Physics, 2016, 96, E593.	0.8	1
72	Corneal Substructure Dosimetry Predicts Corneal Toxicity in Patients With Uveal Melanoma Treated With Proton Beam Therapy. International Journal of Radiation Oncology Biology Physics, 2019, 104, 374-382.	0.8	1

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73	SUâ€Eâ€Tâ€471: Beam Properties of an Inâ€Room Proton Therapy Accelerator. Medical Physics, 2012, 39, 3813-3813.	3.0	1
74	Differences between Bragg curves for an unmodulated 78 MeV proton beam measured with different ionization chambers. , 0, , .		0
75	Stereotactic Radiosurgery (SRS) for Trigeminal Neuralgia With BrainLab Novalis System: The Initial Baylor College of Medicine/The Methodist Hospital Experience. International Journal of Radiation Oncology Biology Physics, 2007, 69, S550.	0.8	0
76	Supine Craniospinal Irradiation: Early Results on Patterns of Failure. International Journal of Radiation Oncology Biology Physics, 2007, 69, S577.	0.8	0
77	A Comparison of Treatment Planning Techniques for Lung Stereotactic Body Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2010, 78, S837-S838.	0.8	0
78	Impact of Anatomic Changes on Sinus Carcinoma Proton Radiotherapy Utilizing Serial Multi-Modality Imaging. International Journal of Radiation Oncology Biology Physics, 2011, 81, S521.	0.8	0
79	Dose Calculation Accuracy of Commercial Monte-Carlo and Pencil Beam Algorithms in Bone and Lung Phantoms: Comparisons Against GEANT4 Simulations and Measurements. International Journal of Radiation Oncology Biology Physics, 2017, 99, E718.	0.8	0
80	A Contour-Based Approach for Predicting Corneal Toxicity in Patients with Uveal Melanoma Treated with Proton Therapy. International Journal of Radiation Oncology Biology Physics, 2018, 102, e297.	0.8	0
81	SU-FF-T-334: Activation Induced by Proton Interactions in a Multileaf Collimator in Proton Therapy. Medical Physics, 2005, 32, 2027-2027.	3.0	0
82	SU-FF-T-346: Monte-Carlo Investigation of Proton-Generated Radioactivity in a Multileaf Collimator for a Proton Therapy Facility. Medical Physics, 2005, 32, 2030-2030.	3.0	0
83	Pioneering innovative radiation oncology technology in clinics. Biomedical Imaging and Intervention Journal, 2007, 3, .	0.5	0
84	Genitourinary Cancer. , 2008, , 174-184.		0
85	TU-C-BRB-09: Estimate of the Uncertainty in Relative Secondary Cancer Risk Calculations Following Proton Therapy and Intensity Modulated X-Ray Therapy. Medical Physics, 2009, 36, 2723-2723.	3.0	0
86	SU-FF-T-556: ITV Delineation and Setup Verification for Image Guided Liver SBRT. Medical Physics, 2009, 36, 2652-2652.	3.0	0
87	MO-A-224-01: A Review of the TG-201 Rapid Communication: QA of Data Transfer. Medical Physics, 2011, 38, 3704-3704.	3.0	0
88	SU-E-T-640: DICOM-RT Data Transfer of Structure Sets Between SRS Treatment Planning Systems. Medical Physics, 2011, 38, 3637-3637.	3.0	0
89	MO-F-213AB-01: Improving Dose Uniformity in Patch-Field Proton Therapy Using Beam Current Modulation. Medical Physics, 2012, 39, 3871-3871.	3.0	0
90	SU-E-T-287: Measured Neutron Levels at the Washington University Proton Therapy Facility. Medical Physics, 2013, 40, 270-270.	3.0	0

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91	SU-A-BRF-01: Education Council Symposium: Online Education in Medical Physics. Medical Physics, 2014, 41, 89-89.	3.0	0
92	SU-E-T-73: Commissioning of a Treatment Planning System for Proton Spot Scanning. Medical Physics, 2014, 41, 238-238.	3.0	0
93	MO-F-16A-03: AAPM Online Learning Support of New ABR MOC Requirements. Medical Physics, 2014, 41, 429-429.	3.0	0
94	TH-F-201-00: Writing Good Multiple Choice Questions. Medical Physics, 2016, 43, 3902-3902.	3.0	0