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	Treatment of ocular tumors through a novel applicator on a conventional proton pencil beam scanning beamline. Scientific Reports, 2022, 12, 4648.	3.3	5
2	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
3	Validation and practical implementation of seated position radiotherapy in a commercial TPS for proton therapy. Physica Medica, 2020, 80, 175-185.	0.7	8
4	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
5	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
6	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
7	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
8	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
9	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
10	Evaluation of ceramic marker for the treatment of ocular melanoma with proton therapy. Biomedical Physics and Engineering Express, 2017, 3, 027003.	1.2	5
11	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
12	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
13	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
14	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
15	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
16	TH-F-201-00: Writing Good Multiple Choice Questions. Medical Physics, 2016, 43, 3902-3902.	3.0	0
17	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
18	SU-A-BRF-01: Education Council Symposium: Online Education in Medical Physics. Medical Physics, 2014, 41, 89-89.	3.0	0

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19	SU-E-T-73: Commissioning of a Treatment Planning System for Proton Spot Scanning. Medical Physics, 2014, 41, 238-238.	3.0	0
20	MO-F-16A-03: AAPM Online Learning Support of New ABR MOC Requirements. Medical Physics, 2014, 41, 429-429.	3.0	0
21	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
22	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
23	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
24	Startup of the Kling Center for Proton Therapy. , 2013, , .		2
25	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
26	SU-E-T-287: Measured Neutron Levels at the Washington University Proton Therapy Facility. Medical Physics, 2013, 40, 270-270.	3.0	0
27	Dosimetric predictors of chest wall pain after lung stereotactic body radiotherapy. Radiotherapy and Oncology, 2012, 104, 23-27.	0.6	63
28	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
29	SUâ€Eâ€Tâ€471: Beam Properties of an Inâ€Room Proton Therapy Accelerator. Medical Physics, 2012, 39, 3813-3813.	3.0	1
30	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
31	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
32	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
33	Proton Therapy At Siteman Cancer Center: The State Of The Art. , 2011, , .		2
34	SU-E-T-303: Neutron Measurements for the Monarch-250 Proton Accelerator. Medical Physics, 2011, 38, 3557-3557.	3.0	2
35	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
36	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

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37	Acceptance Testing for the Monarch-250 Proton Radiotherapy Unit. International Journal of Radiation Oncology Biology Physics, 2010, 78, S807.	0.8	2
38	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
39	Dosimetric Prediction of Chest Wall Toxicity after Lung SBRT. International Journal of Radiation Oncology Biology Physics, 2010, 78, S181-S182.	0.8	3
40	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
41	Information technology resource management in radiation oncology[*]. Journal of Applied Clinical Medical Physics, 2009, 10, 16-35.	1.9	21
42	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
43	SU-FF-T-556: ITV Delineation and Setup Verification for Image Guided Liver SBRT. Medical Physics, 2009, 36, 2652-2652.	3.0	0
44	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
45	Genitourinary Cancer. , 2008, , 174-184.		0
46	Determination of output factors for small proton therapy fields. Medical Physics, 2007, 34, 489-498.	3.0	27
47	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
48	Calculating percent depth dose with the electron pencil-beam redefinition algorithm. Journal of Applied Clinical Medical Physics, 2007, 8, 61-75.	1.9	3
49	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
50	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
51	Supine Craniospinal Irradiation: Early Results on Patterns of Failure. International Journal of Radiation Oncology Biology Physics, 2007, 69, S577.	0.8	0
52	Pathologic Complete Response in Renal Cell Carcinoma Brain Metastases Treated with Stereotactic Radiosurgery. Clinical Genitourinary Cancer, 2007, 5, 334-337.	1.9	15
53	Pioneering innovative radiation oncology technology in clinics. Biomedical Imaging and Intervention Journal, 2007, 3, .	0.5	0
54	Dose properties of x-ray beams produced by laser-wakefield-accelerated electrons. Physics in Medicine and Biology, 2005, 50, N1-N10.	3.0	4

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55	Retrospective analysis of 2D patient-specific IMRT verifications. Medical Physics, 2005, 32, 838-850.	3.0	34
56	Dosimetric accuracy of Kodak EDR2 film for IMRT verifications. Medical Physics, 2005, 32, 539-548.	3.0	61
57	Dual scattering foil design for poly-energetic electron beams. Physics in Medicine and Biology, 2005, 50, 755-767.	3.0	9
58	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
59	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
60	Dosimetric benefits of respiratory gating: a preliminary study. Journal of Applied Clinical Medical Physics, 2004, 5, 1-9.	1.9	15
61	Dose properties of a laser accelerated electron beam and prospects for clinical application. Medical Physics, 2004, 31, 2053-2067.	3.0	33
62	Detection of IMRT delivery errors using a quantitative 2D dosimetric verification system. Medical Physics, 2004, 32, 153-162.	3.0	20
63	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
64	Dosimetric benefits of respiratory gating: a preliminary study. Journal of Applied Clinical Medical Physics, 2004, 5, 16-24.	1.9	34
65	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
66	Depth ionization curves for an unmodulated proton beam measured with different ionization chambers. Medical Physics, 2000, 27, 2780-2787.	3.0	17
67	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
68	Proton dosimetry intercomparison based on the ICRU report 59 protocol. Radiotherapy and Oncology, 1999, 51, 273-279.	0.6	34
69	The midwest proton therapy center. AIP Conference Proceedings, 1997, , .	0.4	1
70	Phantom assessment of lung dose from proton arc therapy. International Journal of Radiation Oncology Biology Physics, 1997, 38, 891-897.	0.8	40
71	Radiative capture of polarized neutrons by polarized protons atTn=183MeV. Physical Review C, 1995, 52, 2859-2874.	2.9	1
72	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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73	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
74	The Indiana University proton radiation therapy project. Nuclear Instruments & Methods in Physics Research B, 1993, 79, 890-894.	1.4	5
75	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
76	Spin correlation and analyzing power measurements for neutron-proton radiative capture atTn=183 MeV. Physical Review Letters, 1993, 70, 3205-3208.	7.8	5
77	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
78	Charge symmetry breaking innât'-pât' scattering at 183 MeV. Physical Review C, 1992, 46, 410-448.	2.9	47
79	Proton-deuteron bremsstrahlung at 145 and 195 MeV. Physical Review C, 1992, 45, 1810-1814.	2.9	9
80	Charge-symmetry violation in neutron-proton elastic scattering atEn=183 MeV. Physical Review Letters, 1991, 66, 1410-1413.	7.8	32
81	A test of charge symmetry in n-p scattering at En = 183 MeV. Nuclear Physics A, 1990, 508, 185-195.	1.5	20
82	New test of the excited state population method for measurements of nuclear temperatures. Physical Review C, 1990, 41, 2406-2409.	2.9	6
83	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
84	Mass ofSc39via the40Ca(7Li,8He) reaction. Physical Review C, 1988, 38, 737-740.	2.9	10
85	Temperature distributions in nuclear collisions: Brief discussion and simple example. Physical Review C, 1987, 36, 855-857.	2.9	2
86	Neutron decay of excited nuclear states in heavy ion collisions. Physical Review C, 1987, 36, 203-207.	2.9	18
87	Results from a new temperature measurement in nuclear reactions. Nuclear Physics A, 1986, 447, 603-608.	1.5	1
88	Thermal population of nuclear excited states. Physical Review C, 1986, 34, 761-763.	2.9	20
89	Effect ofBe8decay on nuclear temperature measurements. Physical Review C, 1986, 34, 850-857.	2.9	11
90	The masses of 51Ca and 47Ar. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 162, 87-91.	4.1	16

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91	Mass ofCu57. Physical Review C, 1985, 31, 875-878.	2.9	15
92	Observation of high energy gamma rays in intermediate energy nucleus-nucleus collisions. Physical Review C, 1985, 32, 1111-1113.	2.9	31
93	Nuclear temperatures in the reaction ofN14with Ag at 35 MeV/nucleon. Physical Review C, 1985, 32, 877-886.	2.9	39
94	Differences between Bragg curves for an unmodulated 78 MeV proton beam measured with different ionization chambers. , 0, , .		0