

Murshed Hossain

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

818
citations

623734

14
h-index

477307

29
g-index

60
all docs

60
docs citations

60
times ranked

527
citing authors

#	ARTICLE	IF	CITATIONS
1	Phenomenology for the decay of energy-containing eddies in homogeneous MHD turbulence. <i>Physics of Fluids</i> , 1995, 7, 2886-2904.	4.0	154
2	Scaling of Anisotropy in Hydromagnetic Turbulence. <i>Physical Review Letters</i> , 1998, 81, 2056-2059.	7.8	95
3	Renormalization-group theory for the eddy viscosity in subgrid modeling. <i>Physical Review A</i> , 1988, 37, 2590-2598.	2.5	91
4	Long-time states of inverse cascades in the presence of a maximum length scale. <i>Journal of Plasma Physics</i> , 1983, 30, 479-493.	2.1	73
5	The application of spectral methods in simulating compressible fluid and magnetofluid turbulence. <i>Computer Physics Communications</i> , 1993, 74, 18-40.	7.5	57
6	An optimized forward-planning technique for intensity modulated radiation therapy. <i>Medical Physics</i> , 2000, 27, 2093-2099.	3.0	51
7	Reduction in the dimensionality of turbulence due to a strong rotation. <i>Physics of Fluids</i> , 1994, 6, 1077-1080.	4.0	50
8	Renormalized eddy viscosity and Kolmogorov's constant in forced Navier-Stokes turbulence. <i>Physical Review A</i> , 1989, 40, 5865-5874.	2.5	35
9	A critical look at the use of filters in large eddy simulation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1989, 139, 330-332.	2.1	27
10	Anomalous transport and the coupling of plasma diffusion and heat flow. <i>Physical Review Letters</i> , 1987, 58, 487-490.	7.8	21
11	Output trends, characteristics, and measurements of three megavoltage radiotherapy linear accelerators. <i>Journal of Applied Clinical Medical Physics</i> , 2014, 15, 137-151.	1.9	21
12	Inverse energy cascades in three-dimensional turbulence. <i>Physics of Fluids B</i> , 1991, 3, 511-514.	1.7	20
13	Three-dimensional compressible hydrodynamic convection in the sun and stars. <i>Astrophysical Journal</i> , 1991, 380, 631.	4.5	20
14	Forced magnetohydrodynamic turbulence in a uniform external magnetic field. <i>Physics of Fluids</i> , 1985, 28, 3074.	1.4	19
15	Simulation of Compressible Convection: A Comparative Study of Boundary Conditions. <i>Astrophysical Journal</i> , 1993, 416, 733.	4.5	12
16	Dosimetric investigation of high dose rate, gated IMRT. <i>Medical Physics</i> , 2008, 35, 5079-5087.	3.0	10
17	Planning target volume-to-skin proximity for head-and-neck intensity modulated radiation therapy treatment planning. <i>Practical Radiation Oncology</i> , 2014, 4, e21-e29.	2.1	9
18	On beam quality and flatness of radiotherapy megavoltage photon beams. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016, 39, 135-145.	1.3	8

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19	New numerical solutions of three-dimensional compressible hydrodynamic convection. <i>Astrophysical Journal</i> , 1990, 354, L33.	4.5	8
20	On computing high order Galerkin products. <i>Computer Physics Communications</i> , 1992, 69, 1-6.	7.5	6
21	Plasma transport by relaxation of localized perturbations. <i>Physics of Fluids</i> , 1988, 31, 2165.	1.4	4
22	On the iterative averaging technique for subgrid modelling in large eddy simulation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1990, 151, 249-253.	2.1	4
23	Non-diffusive sub-grid modeling of turbulence. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 161, 277-282.	2.1	4
24	Effect of Gold Marker Seeds on Magnetic Resonance Spectroscopy of the Prostate. <i>International Journal of Radiation Oncology Biology Physics</i> , 2012, 83, 451-458.	0.8	3
25	Anomalous Transport and the Coupling of Plasma Diffusion and Heat Flow. <i>Physical Review Letters</i> , 1987, 58, 1497-1497.	7.8	2
26	Turbulent transport of a passive-scalar field by using a renormalization-group method. <i>Physical Review A</i> , 1992, 46, 7608-7613.	2.5	2
27	A Simple Incident Learning System for Radiation Oncology in a Community Hospital. <i>Journal of the American College of Radiology</i> , 2017, 14, 952-955.	1.8	2
28	Three-dimensional Compressible Hydrodynamic Convection in the Sun and Stars: Erratum. <i>Astrophysical Journal</i> , 1992, 397, 353.	4.5	2
29	Profile consistency in quasilinear and nonlinear high beta magnetohydrodynamic computations. <i>Plasma Physics and Controlled Fusion</i> , 1990, 32, 327-334.	2.1	1
30	Cyclic convection in a zone bounded by stable layers. <i>Physical Review E</i> , 1997, 55, 2769-2779.	2.1	1
31	An investigation of a model of percentage depth dose for irregularly shaped fields. <i>International Journal of Cancer</i> , 2001, 96, 140-145.	5.1	1
32	Output variation from an intensity modulating dynamic collimator. <i>Medical Physics</i> , 2002, 29, 1693-1697.	3.0	1
33	When and how to treat an IMRT patient on a second accelerator without replanning?. <i>Medical Dosimetry</i> , 2018, 43, 334-343.	0.9	1
34	Destabilization of Compressible Convection by Radiation: Quantitative Evaluation. <i>Astrophysical Journal</i> , 1995, 447, 789.	4.5	1
35	TH-D-AUD B-04: Developing Hardware and Software Tools for Advanced Mixed Beam Radiotherapy. <i>Medical Physics</i> , 2008, 35, 2985-2985.	3.0	1
36	SUâ€¦â€¦â€¦101: Investigation of Intrafractional Prostate Rotation and Its Effect on PTV Margin Evaluation. <i>Medical Physics</i> , 2010, 37, 3168-3168.	3.0	1

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37	Inverse cascades in incompressible fluid and magnetofluid turbulence. Journal of Plasma Physics, 1996, 56, 467-491.	2.1	0
38	4D-CT Reconstruction Based on Accurate Vector Field Inter/Extrapolation. International Journal of Radiation Oncology Biology Physics, 2008, 72, S627-S628.	0.8	0
39	SU-GG-J-64: Daily Localization of Moving Targets with Non-Gated Cone-Beam CT Imaging. Medical Physics, 2008, 35, 2693-2693.	3.0	0
40	SU-CC-CT-496: A Feasibility Study of CT-Based IMRT Planning for Total Body Irradiation. Medical Physics, 2008, 35, 2839-2839.	3.0	0
41	SU-GG-J-27: An Improved Demons Algorithm by Incorporating Accurate Voxel Motion Calculation. Medical Physics, 2008, 35, 2684-2684.	3.0	0
42	SU-CC-CT-180: The Role of MRS in Radiation Therapy: Correlation Between T2-Weighted MRI, Biopsy and MRS. Medical Physics, 2008, 35, 2721-2721.	3.0	0
43	SU-FF-T-653: Treatment Planning and Delivery of Modulated Electron Radiotherapy for An Extensive Scalp Treatment Using Photon MLC. Medical Physics, 2009, 36, 2675-2675.	3.0	0
44	SU-FF-T-637: Investigation of Dose Accuracy in XiO Superposition Convolution Dose Calculation for Linacs with Jaws and MLCs. Medical Physics, 2009, 36, 2671-2671.	3.0	0
45	TU-D-304A-05: An Improved Phase-Based 4DCT Reconstruction Using Local Breathing Variation Without RPM. Medical Physics, 2009, 36, 2737-2738.	3.0	0
46	SU-FF-J-177: Effect of Gold Marker Seed On MR Spectroscopy of the Prostate. Medical Physics, 2009, 36, 2518-2518.	3.0	0
47	SU-GG-I-179: Ultrasound-Image Guided Radiation Treatment with Amplitude-Based Gating System. Medical Physics, 2010, 37, 3142-3142.	3.0	0
48	SU-CC-CT-313: A Procedure for Standardizing MLC Quality Assurance for Elekta Linacs. Medical Physics, 2010, 37, 3258-3258.	3.0	0
49	SU-CC-CT-197: Dosimetric Investigation of Patient Specific IMRT QA Using MatriXX. Medical Physics, 2010, 37, 3230-3230.	3.0	0
50	SU-CC-CT-140: Magnetic Resonance Spectroscopy of the Prostate: One Institutional Experience. Medical Physics, 2010, 37, 3178-3178.	3.0	0
51	SU-CC-CT-309: A Ratio-Test for Routine Electron Energy Check for Linear Accelerators. Medical Physics, 2010, 37, 3257-3257.	3.0	0
52	SU-E-J-181: Evaluation of Motion Artifacts of Metal Localization Devices on KV and MV Cone Beam CT. Medical Physics, 2011, 38, 3485-3485.	3.0	0
53	SU-E-T-69: A Broad Implementation of Treatment Planning System QA. Medical Physics, 2011, 38, 3501-3501.	3.0	0
54	SU-E-T-240: In-Vivo Measurement of Shallow Dose for a Spoiled Mega Voltage Radiotherapy Beam. Medical Physics, 2011, 38, 3542-3542.	3.0	0

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55	SU-E-T-477: Multileaf Collimator Quality Assurance for Volumetric Modulated Arc Therapy. Medical Physics, 2011, 38, 3598-3598.	3.0	0
56	SU-E-T-554: PTV to Skin Proximity for Head and Neck IMRT Treatment Planning. Medical Physics, 2012, 39, 3833-3833.	3.0	0
57	SU-E-T-65: Magnetic Resonance Spectroscopy of the Prostate: A Phantom Study of Metabolite Concentrations. Medical Physics, 2012, 39, 3639-3640.	3.0	0
58	SU-E-T-483: Delay Treatment or Switch to Different Machines? Dosimetric Effect and Tumor Control Probability. Medical Physics, 2012, 39, 3816-3816.	3.0	0
59	SU-E-T-557: Dosimetric Evaluation of Elekta-XiO Superposition Convolution Algorithm for Siemens MultiLeaf Collimators. Medical Physics, 2013, 40, 333-333.	3.0	0
60	SU-D-103-01: TG 142 Imaging Modalities QA - Three Year Experience. Medical Physics, 2013, 40, 110-110.	3.0	0