

Keith E Schubert

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

595
citations

840119

11
h-index

839053

18
g-index

45
all docs

45
docs citations

45
times ranked

531
citing authors

#	ARTICLE	IF	CITATIONS
1	A maximum likelihood proton path formalism for application in proton computed tomography. Medical Physics, 2008, 35, 4849-4856.	1.6	165
2	A Fast Experimental Scanner for Proton CT: Technical Performance and First Experience With Phantom Scans. IEEE Transactions on Nuclear Science, 2016, 63, 52-60.	1.2	67
3	Deciphering Biosignatures in Planetary Contexts. Astrobiology, 2019, 19, 1075-1102.	1.5	66
4	A more accurate reconstruction system matrix for quantitative proton computed tomography. Medical Physics, 2009, 36, 4511-4518.	1.6	49
5	200 MeV Proton Radiography Studies With a Hand Phantom Using a Prototype Proton CT Scanner. IEEE Transactions on Medical Imaging, 2014, 33, 875-881.	5.4	37
6	Microbial Community and Biochemical Dynamics of Biological Soil Crusts across a Gradient of Surface Coverage in the Central Mojave Desert. Frontiers in Microbiology, 2017, 8, 1974.	1.5	36
7	Operation of the preclinical head scanner for proton CT. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 831, 394-399.	0.7	33
8	Application of fluence field modulation to proton computed tomography for proton therapy imaging. Physics in Medicine and Biology, 2017, 62, 6026-6043.	1.6	18
9	The Degenerate Bounded Errors-in-Variables Model. SIAM Journal on Matrix Analysis and Applications, 2001, 23, 138-166.	0.7	17
10	Particle-Tracking Proton Computed Tomography—Data Acquisition, Preprocessing, and Preconditioning. IEEE Access, 2021, 9, 25946-25958.	2.6	13
11	An Improved Method of Total Variation Superiorization Applied to Reconstruction in Proton Computed Tomography. IEEE Transactions on Medical Imaging, 2020, 39, 294-307.	5.4	12
12	Development of Proton Computed Tomography for Applications in Proton Therapy. , 2009, , .		11
13	Detector development for Proton Computed Tomography (pCT). , 2011, , .		10
14	Reconstructing highly accurate relative stopping powers in proton computed tomography. , 2015, , .		7
15	Space carving and filtered back-projection as preconditioners for proton computed tomography reconstruction. , 2012, , .		5
16	A proton simulator for testing implementations of proton CT reconstruction algorithms on GPGPU clusters. , 2012, , .		5
17	BIOVERMICULATION BIOPATTERNS AS UNIVERSAL SIGNATURES OF EXTANT AND EXTINCT LIFE. , 2016, , .		4
18	Preventing Deadlock with Dynamic Message Scheduling. , 0, , .		3

#	ARTICLE	IF	CITATIONS
19	Patterned Growth in Extreme Environments. , 2009, , .		3
20	200 MeV proton radiography studies with a hand phantom using a prototype proton CT scanner. , 2012, , .		3
21	Incorporating robustness in diagonally-relaxed orthogonal projections method for proton computed tomography. , 2015, , .		3
22	Estimation, Modeling, and Simulation of Patterned Growth in Extreme Environments. Advances in Experimental Medicine and Biology, 2011, 696, 157-170.	0.8	3
23	Developments in Mathematical Algorithms and Computational Tools for Proton CT and Particle Therapy Treatment Planning. IEEE Transactions on Radiation and Plasma Medical Sciences, 2022, 6, 313-324.	2.7	2
24	Ultrasound Localization of Nitinol Wire of Sub-Wavelength Dimension. IEEE Open Journal of Engineering in Medicine and Biology, 2022, 3, 18-24.	1.7	2
25	2077. International Journal of Radiation Oncology Biology Physics, 2006, 66, S252.	0.4	1
26	General purpose graphics processing unit speedup of integral relative electron density calculation for proton computed tomography. , 2009, , .		1
27	Algebra of Synchronization with Application to Deadlock and Semaphores. , 2010, , .		1
28	Evaluation of Mathematical Algorithms for Automatic Patient Alignment in Radiosurgery. Technology in Cancer Research and Treatment, 2015, 14, 326-333.	0.8	1
29	A Model for Entropy of Parallel Execution. , 2016, , .		1
30	Using Extremophile Behavior to Identify Biological Targets of Opportunity. , 2017, , .		1
31	A Highly Accelerated Parallel Multi-GPU based Reconstruction Algorithm for Generating Accurate Relative Stopping Powers. , 2017, , .		1
32	Robust iterative methods: Convergence and applications to proton computed tomography. AIP Conference Proceedings, 2019, , .	0.3	1
33	Current-controlled Nitinol wire for improved arterial navigation. , 2019, , .		1
34	Image-Guided Alignment Verification with Submillimeter Precision for Functional Proton Radiosurgery. International Journal of Radiation Oncology Biology Physics, 2005, 63, S516-S517.	0.4	0
35	MW-4 Mini-Workshop: Student Space IT Research and Projects. , 0, , .		0
36	Gradient Non-Linearity Correction of MR Images for Functional Radiosurgery. , 0, , .		0

#	ARTICLE	IF	CITATIONS
37	Performance Analysis of an Optoelectronic Localization System for Monitoring Brain Lesioning with Proton Beams. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4693-8.	0.5	0
38	Performance Study of and Optoelectronic Localization System for Functional Proton Radiosurgery. International Journal of Radiation Oncology Biology Physics, 2007, 69, S712.	0.4	0
39	Software-Based Algorithm for Modeling and Correction of Gradient Nonlinearity Distortions in Magnetic Resonance Imaging. , 2008, , .		0
40	Extensible Simulation of Planets and Comets. , 2009, , .		0
41	The reminding walker cognitive orthotic device. , 2017, , .		0
42	Models for Robust Estimation and Identification. , 2002, , 203-212.		0
43	Algebra of Synchronization with Application to Deadlock and Semaphores. International Journal of Networking and Computing, 2011, 1, 144-156.	0.3	0
44	Entropy of Parallel Execution and Communication. International Journal of Networking and Computing, 2017, 7, 2-28.	0.3	0