Tony C Slaba

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7399043/publications.pdf

Version: 2024-02-01

59
papers

1,455
citations

318942
23
h-index

388640
36
g-index

60
all docs

60
docs citations

60
times ranked

1037
citing authors

#	Article	IF	Citations
1	A practical approach for continuous in situ characterization of radiation quality factors in space. Scientific Reports, 2022, 12, 1453.	1.6	2
2	Impact of Radiation Quality on Microdosimetry and Chromosome Aberrations for High-Energy (>250) Tj ETQq0 0 0 rgBT /Overlock 10	1.1	2
3	Late onset cardiovascular dysfunction in adult mice resulting from galactic cosmic ray exposure. IScience, 2022, 25, 104086.	1.9	9
4	Medical Countermeasure Requirements to Meet NASAâ€™s Space Radiation Permissible Exposure Limits for a Mars Mission Scenario. Health Physics, 2022, 123, 116-127.	0.3	6
5	Calibration of a radiation quality model for sparse and uncertain data. Applied Mathematical Modelling, 2021, 95, 734-759.	2.2	6
6	Historical reconstruction of astronaut cancer risk â€“ context for recent solar minima. Space Weather, 2021, 19, e2021SW002851.	1.3	1
7	Improving astronaut cancer risk assessment from space radiation with an ensemble model framework. Life Sciences in Space Research, 2021, 31, 14-28.	1.2	12
8	Track Structure Components: Characterizing Energy Deposited in Spherical Cells from Direct and Peripheral HZE Ion Hits. Life, 2021, 11, 1112.	1.1	6
9	Correct modeling results are needed to inform mission planning and shield design. Life Sciences in Space Research, 2020, 25, 143-147.	1.2	2
10	Updated deterministic radiation transport for future deep space missions. Life Sciences in Space Research, 2020, 27, 6-18.	1.2	15
11	Are Further Cross Section Measurements Necessary for Space Radiation Protection or Ion Therapy Applications? Helium Projectiles. Frontiers in Physics, 2020, 8, .	1.0	18
12	Improvements to a quantum mechanical abrasion-ablation model of nuclear fragmentation: Revised nuclear level densities and improved ablation code. Nuclear Instruments & Methods in Physics Research B, 2020, 480, 115-126.	0.6	2
13	A methodology for investigating the impact of medical countermeasures on the risk of exposure induced death. Life Sciences in Space Research, 2020, 25, 72-102.	1.2	4
14	NASAâ€™s first ground-based Galactic Cosmic Ray Simulator: Enabling a new era in space radiobiology research. PLoS Biology, 2020, 18, e3000669.	2.6	144
15	CRaTER observations and permissible mission duration for human operations in deep space. Life Sciences in Space Research, 2020, 26, 149-162.	1.2	6
16	The Badhwarâ€O'Neill 2020 GCR Model. Space Weather, 2020, 18, e2020SW002456.	1.3	30
17	Effects of the Serber first step in 3DHZETRN-v2.1. Life Sciences in Space Research, 2020, 26, 10-27.	1.2	3
18	Determination of Chromosome Aberrations in Human Fibroblasts Irradiated by Mixed Fields Generated with Shielding. Radiation Research, 2020, 194, 246.	0.7	8

#	ARTICLE	IF	CITATIONS
19	Comparison of space radiation GCR models to AMS heavy ion data. Life Sciences in Space Research, 2019, 22, 76-88.	1.2	4
20	Advances in space radiation physics and transport at NASA. Life Sciences in Space Research, 2019, 22, 98-124.	1.2	46
21	RITCARD: Radiation-Induced Tracks, Chromosome Aberrations, Repair and Damage. Radiation Research, 2019, 192, 282.	0.7	23
22	A Bi-Exponential Repair Algorithm for Radiation-Induced Double-Strand Breaks: Application to Simulation of Chromosome Aberrations. Genes, 2019, 10, 936.	1.0	16
23	Characterization of Solar Energetic Particle Radiation Dose to Astronaut Crew on Deepâ€Space Exploration Missions. Space Weather, 2019, 17, 1650-1658.	1.3	10
24	Solar particle event storm shelter requirements for missions beyond low Earth orbit. Life Sciences in Space Research, 2018, 17, 32-39.	1.2	42
25	Comparison of space radiation GCR models to recent AMS data. Life Sciences in Space Research, 2018, 18, 64-71.	1.2	10
26	Active Dosimeterâ€Based Estimate of Astronaut Acute Radiation Risk for Realâ€Time Solar Energetic Particle Events. Space Weather, 2018, 16, 1291-1316.	1.3	20
27	Dependence of the Martian radiation environment on atmospheric depth: Modeling and measurement. Journal of Geophysical Research E: Planets, 2017, 122, 329-341.	1.5	26
28	Comparing HZETRN, SHIELD, FLUKA and GEANT transport codes. Life Sciences in Space Research, 2017, 14, 64-73.	1.2	22
29	Cosmic-ray interaction data for designing biological experiments in space. Life Sciences in Space Research, 2017, 13, 51-59.	1.2	13
30	Evaluation of HZETRN on the Martian surface: Sensitivity tests and model results. Life Sciences in Space Research, 2017, 14, 29-35.	1.2	14
31	Optimal shielding thickness for galactic cosmic ray environments. Life Sciences in Space Research, 2017, 12, 1-15.	1.2	66
32	The radiation environment on the surface of Mars - Summary of model calculations and comparison to RAD data. Life Sciences in Space Research, 2017, 14, 18-28.	1.2	57
33	Light Ion Yields from Bombardment of Thick Targets by Protons, Helium-4 and Iron-56. EPJ Web of Conferences, 2017, 153, 07029.	0.1	0
34	The Martian surface radiation environment â€“ a comparison of models and MSL/RAD measurements. Journal of Space Weather and Space Climate, 2016, 6, A13.	1.1	70
35	Reference field specification and preliminary beam selection strategy for accelerator-based GCR simulation. Life Sciences in Space Research, 2016, 8, 52-67.	1.2	55
36	Solar proton exposure of an ICRU sphere within a complex structure Part I: Combinatorial geometry. Life Sciences in Space Research, 2016, 9, 69-76.	1.2	24

#	ARTICLE	IF	CITATIONS
37	Evaluating galactic cosmic ray environment models using RaD-X flight data. Space Weather, 2016, 14, 764-775.	1.3	10
38	Solar proton exposure of an ICRU sphere within a complex structure part II: Ray-trace geometry. Life Sciences in Space Research, 2016, 9, 77-83.	1.2	23
39	Galactic cosmic ray simulation at the NASA Space Radiation Laboratory. Life Sciences in Space Research, 2016, 8, 38-51.	1.2	112
40	3DHZETRN: Shielded ICRU spherical phantom. Life Sciences in Space Research, 2015, 4, 46-61.	1.2	24
41	3DHZETRN: Neutron leakage in finite objects. Life Sciences in Space Research, 2015, 7, 27-38.	1.2	14
42	GCR environmental models I: Sensitivity analysis for GCR environments. Space Weather, 2014, 12, 217-224.	1.3	38
43	GCR environmental models II: Uncertainty propagation methods for GCR environments. Space Weather, 2014, 12, 225-232.	1.3	12
44	Space radiation accelerator experiments â€“ The role of neutrons and light ions. Life Sciences in Space Research, 2014, 3, 90-94.	1.2	29
45	Advances in NASA radiation transport research: 3DHZETRN. Life Sciences in Space Research, 2014, 2, 6-22.	1.2	35
46	GCR environmental models III: GCR model validation and propagated uncertainties in effective dose. Space Weather, 2014, 12, 233-245.	1.3	18
47	Pion and electromagnetic contribution to dose: Comparisons of HZETRN to Monte Carlo results and ISS data. Advances in Space Research, 2013, 52, 62-78.	1.2	33
48	An extension of HZETRN for cosmic ray initiated electromagnetic cascades. Advances in Space Research, 2013, 51, 2251-2260.	1.2	31
49	Reduced discretization error in HZETRN. Journal of Computational Physics, 2013, 234, 217-229.	1.9	9
50	A comparative study of space radiation organ doses and associated cancer risks using PHITS and HZETRN. Physics in Medicine and Biology, 2013, 58, 7183-7207.	1.6	13
51	Comparison of the transport codes HZETRN, HETC and FLUKA for a solar particle event. Advances in Space Research, 2011, 47, 1079-1088.	1.2	27
52	Comparison of the transport codes HZETRN, HETC and FLUKA for galactic cosmic rays. Advances in Space Research, 2011, 47, 1089-1105.	1.2	32
53	OLTARIS: On-line tool for the assessment of radiation in space. Acta Astronautica, 2011, 68, 1086-1097.	1.7	76
54	Investigating material approximations in spacecraft radiation analysis. Acta Astronautica, 2011, 69, 6-17.	1.7	5

#	ARTICLE	IF	CITATIONS
55	Statistical validation of HZETRN as a function of vertical cutoff rigidity using ISS measurements. Advances in Space Research, 2011, 47, 600-610.	1.2	28
56	Variation in Lunar Neutron Dose Estimates. Radiation Research, 2011, 176, 827-841.	0.7	29
57	Utilization of CAM, CAF, MAX, and FAX for space radiation analyses using HZETRN. Advances in Space Research, 2010, 45, 866-883.	1.2	32
58	Comparison of organ dose and dose equivalent for human phantoms of CAM vs. MAX. Advances in Space Research, 2010, 45, 850-857.	1.2	7
59	An improved neutron transport algorithm for HZETRN. Advances in Space Research, 2010, 46, 800-810.	1.2	24