Ryan B Norman

List of Publications by Year
in descending order

33 papers	798 citations	516710 16 h-index	526287 27 g-index
33 all docs	33 docs citations	33 times ranked	734 citing authors

#	Article	IF	Citations
1	Total nuclear reaction cross-section database for radiation protection in space and heavy-ion therapy applications. New Journal of Physics, 2021, 23, 101201.	2.9	16
2	Are Further Cross Section Measurements Necessary for Space Radiation Protection or Ion Therapy Applications? Helium Projectiles. Frontiers in Physics, 2020, 8, .	2.1	18
3	Advances in space radiation physics and transport at NASA. Life Sciences in Space Research, 2019, 22, 98-124.	2.3	46
4	Solar particle event storm shelter requirements for missions beyond low Earth orbit. Life Sciences in Space Research, 2018, 17, 32-39.	2.3	42
5	HZETRN radiation transport validation using balloon-based experimental data. Life Sciences in Space Research, 2018, 17, 23-31.	2.3	2
6	Validation of elastic cross section models for space radiation applications. Nuclear Instruments & Methods in Physics Research B, 2017, 392, 74-93.	1.4	8
7	Using spectral shape and predictor fluence to evaluate temporal dependence of exposures from solar particle events. Space Weather, 2017, 15, 374-391.	3.7	3
8	Cosmic radiation dose measurements from the RaD-X flight campaign. Space Weather, 2016, 14, 874-898.	3.7	30
9	Evaluating galactic cosmic ray environment models using RaD-X flight data. Space Weather, 2016, 14, 764-775.	3.7	10
10	Assessment of the influence of the RaD-X balloon payload on the onboard radiation detectors. Space Weather, 2016, 14, 835-845.	3.7	5
11	Ground-based evaluation of dosimeters for NASA high-altitude balloon flight. Space Weather, 2016, 14, 1011-1025.	3.7	13
12	Overview of the Radiation Dosimetry Experiment (RaD-X) flight mission. Space Weather, 2016, 14, 921-934.	3.7	19
13	Application of Interval Predictor Models to Space Radiation Shielding. , 2016, , .		5
14	Galactic cosmic ray simulation at the NASA Space Radiation Laboratory. Life Sciences in Space Research, 2016, 8, 38-51.	2.3	112
15	Computation of cosmic ray ionization and dose at Mars. I: A comparison of HZETRN and Planetocosmics for proton and alpha particles. Advances in Space Research, 2015, 55, 1799-1805.	2.6	35
16	Influence of dust loading on atmospheric ionizing radiation on Mars. Journal of Geophysical Research: Space Physics, 2014, 119, 452-461.	2.4	21
17	THEORETICAL UV ABSORPTION SPECTRA OF HYDRODYNAMICALLY ESCAPING O₂/CO₂-RICH EXOPLANETARY ATMOSPHERES. Astrophysical Journal, 2014, 788, 191.	4.5	23
18	GCR environmental models III: GCR model validation and propagated uncertainties in effective dose. Space Weather, 2014, 12, 233-245.	3.7	18

#	Article	IF	Citations
19	Pion and electromagnetic contribution to dose: Comparisons of HZETRN to Monte Carlo results and ISS data. Advances in Space Research, 2013, 52, 62-78.	2.6	33
20	An extension of HZETRN for cosmic ray initiated electromagnetic cascades. Advances in Space Research, 2013, 51, 2251-2260.	2.6	31
21	Validation of nuclear models used in space radiation shielding applications. Journal of Computational Physics, 2013, 233, 464-479.	3.8	14
22	NAIRAS aircraft radiation model development, dose climatology, and initial validation. Space Weather, 2013, 11, 603-635.	3.7	66
23	Deterministic pion and muon transport in Earthâ€™s atmosphere. Advances in Space Research, 2012, 50, 146-155.	2.6	22
24	Nuclear data for space radiation. Radiation Measurements, 2012, 47, 315-363.	1.4	33
25	NUCFRG3: Light ion improvements to the nuclear fragmentation model. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 678, 21-32.	1.6	33
26	On-Line Tool for the Assessment of Radiation in Space — Deep space mission enhancements. , 2011, , .		1
27	A deterministic electron, photon, proton and heavy ion radiation transport suite for the study of the Jovian system. , 2011, , .		2
28	A deterministic electron, photon, proton and heavy ion transport suite for the study of the Jovian moon Europa. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 232-238.	1.4	13
29	OLTARIS: On-line tool for the assessment of radiation in space. Acta Astronautica, 2011, 68, 1086-1097.	3.2	76
30	Fragmentation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">N</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>14</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>,<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>16</mml:m	2.9	34
31	A deterministic computational procedure for space environment electron transport. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2415-2425.	1.4	11
32	Cross-sections from scalar field theory. Canadian Journal of Physics, 2010, 88, 149-156.	1.1	2
33	Threshold meson production and cosmic ray transport. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 115-121.	3.6	1