

# Ryan B Norman

## List of Publications by Year in descending order

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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  | Galactic cosmic ray simulation at the NASA Space Radiation Laboratory. Life Sciences in Space Research, 2016, 8, 38-51.  | 2.3 | 112       |
| 2  | OLTARIS: On-line tool for the assessment of radiation in space. Acta Astronautica, 2011, 68, 1086-1097.  | 3.2 | 76        |
| 3  | NAIRAS aircraft radiation model development, dose climatology, and initial validation. Space Weather, 2013, 11, 603-635.   | 3.7 | 66        |
| 4  | Advances in space radiation physics and transport at NASA. Life Sciences in Space Research, 2019, 22, 98-124.  | 2.3 | 46        |
| 5  | Solar particle event storm shelter requirements for missions beyond low Earth orbit. Life Sciences in Space Research, 2018, 17, 32-39.   | 2.3 | 42        |
| 6  | 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        |
| 7  | Fragmentation of $^{14}\text{N}$ and $^{16}\text{O}$ by protons and alpha particles. Advances in Space Research, 2015, 55, 1806-1815.  | 2.9 | 34        |
| 8  | Nuclear data for space radiation. Radiation Measurements, 2012, 47, 315-363.   | 1.4 | 33        |
| 9  | 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        |
| 10 | 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        |
| 11 | An extension of HZETRN for cosmic ray initiated electromagnetic cascades. Advances in Space Research, 2013, 51, 2251-2260.   | 2.6 | 31        |
| 12 | Cosmic radiation dose measurements from the RaD-X flight campaign. Space Weather, 2016, 14, 874-898.   | 3.7 | 30        |
| 13 | THEORETICAL UV ABSORPTION SPECTRA OF HYDRODYNAMICALLY ESCAPING $\text{O}_2$ AND $\text{CO}_2$ -RICH EXOPLANETARY ATMOSPHERES. Astrophysical Journal, 2014, 788, 191.   | 4.5 | 23        |
| 14 | Deterministic pion and muon transport in Earth's atmosphere. Advances in Space Research, 2012, 50, 146-155.  | 2.6 | 22        |
| 15 | Influence of dust loading on atmospheric ionizing radiation on Mars. Journal of Geophysical Research: Space Physics, 2014, 119, 452-461.   | 2.4 | 21        |
| 16 | Overview of the Radiation Dosimetry Experiment (RaD-X) flight mission. Space Weather, 2016, 14, 921-934.   | 3.7 | 19        |
| 17 | GCR environmental models III: GCR model validation and propagated uncertainties in effective dose. Space Weather, 2014, 12, 233-245.   | 3.7 | 18        |
| 18 | Are Further Cross Section Measurements Necessary for Space Radiation Protection or Ion Therapy Applications? Helium Projectiles. Frontiers in Physics, 2020, 8, .  | 2.1 | 18        |

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|----|--|-----|-----------|
| 19 | Total nuclear reaction cross-section database for radiation protection in space and heavy-ion therapy applications. <i>New Journal of Physics</i> , 2021, 23, 101201.                                | 2.9 | 16        |
| 20 | Validation of nuclear models used in space radiation shielding applications. <i>Journal of Computational Physics</i> , 2013, 233, 464-479.   | 3.8 | 14        |
| 21 | A deterministic electron, photon, proton and heavy ion transport suite for the study of the Jovian moon Europa. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 232-238. | 1.4 | 13        |
| 22 | Ground-based evaluation of dosimeters for NASA high-altitude balloon flight. <i>Space Weather</i> , 2016, 14, 1011-1025.   | 3.7 | 13        |
| 23 | A deterministic computational procedure for space environment electron transport. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 2415-2425.                             | 1.4 | 11        |
| 24 | Evaluating galactic cosmic ray environment models using RaD-X flight data. <i>Space Weather</i> , 2016, 14, 764-775.   | 3.7 | 10        |
| 25 | Validation of elastic cross section models for space radiation applications. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 392, 74-93.                                      | 1.4 | 8         |
| 26 | Assessment of the influence of the RaD-X balloon payload on the onboard radiation detectors. <i>Space Weather</i> , 2016, 14, 835-845.   | 3.7 | 5         |
| 27 | Application of Interval Predictor Models to Space Radiation Shielding. , 2016, , .   |     | 5         |
| 28 | Using spectral shape and predictor fluence to evaluate temporal dependence of exposures from solar particle events. <i>Space Weather</i> , 2017, 15, 374-391.  | 3.7 | 3         |
| 29 | Cross-sections from scalar field theory. <i>Canadian Journal of Physics</i> , 2010, 88, 149-156.   | 1.1 | 2         |
| 30 | A deterministic electron, photon, proton and heavy ion radiation transport suite for the study of the Jovian system. , 2011, , .   |     | 2         |
| 31 | HZETRN radiation transport validation using balloon-based experimental data. <i>Life Sciences in Space Research</i> , 2018, 17, 23-31.   | 2.3 | 2         |
| 32 | Threshold meson production and cosmic ray transport. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007, 34, 115-121.  | 3.6 | 1         |
| 33 | On-Line Tool for the Assessment of Radiation in Space &#x2014; Deep space mission enhancements. , 2011, , .  |     | 1         |