

# Alex D P Hands

## List of Publications by Year in descending order

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30  
papers

474  
citations

687363

13  
h-index

713466

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g-index

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docs citations

30  
times ranked

486  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutron-Induced Single Event Effects Testing Across a Wide Range of Energies and Facilities and Implications for Standards. IEEE Transactions on Nuclear Science, 2006, 53, 3596-3601.	2.0	38
2	Single Event Effects in Power MOSFETs Due to Atmospheric and Thermal Neutrons. IEEE Transactions on Nuclear Science, 2011, 58, 2687-2694.	2.0	36
3	Radiation Effects on Satellites During Extreme Space Weather Events. Space Weather, 2018, 16, 1216-1226.	3.7	32
4	Advances in Atmospheric Radiation Measurements and Modeling Needed to Improve Air Safety. Space Weather, 2015, 13, 202-210.	3.7	30
5	Cosmic radiation dose measurements from the RaD-X flight campaign. Space Weather, 2016, 14, 874-898.	3.7	30
6	Solar Particle Events in the QinetiQ Atmospheric Radiation Model. IEEE Transactions on Nuclear Science, 2007, 54, 1071-1075.	2.0	29
7	Extreme Atmospheric Radiation Environments and Single Event Effects. IEEE Transactions on Nuclear Science, 2018, 65, 432-438.	2.0	29
8	Advances in Measuring and Modeling the Atmospheric Radiation Environment. IEEE Transactions on Nuclear Science, 2009, 56, 3415-3422.	2.0	28
9	Comparison of codes assessing galactic cosmic radiation exposure of aircraft crew. Radiation Protection Dosimetry, 2009, 136, 317-323.	0.8	27
10	Realistic Worst Case for a Severe Space Weather Event Driven by a Fast Solar Wind Stream. Space Weather, 2018, 16, 1202-1215.	3.7	23
11	SEU Rates in Atmospheric Environments: Variations Due to Cross-Section Fits and Environment Models. IEEE Transactions on Nuclear Science, 2009, 56, 2026-2034.	2.0	20
12	A Technique for Measuring Dose Equivalent and Neutron Fluxes in Radiation Environments Using Silicon Diodes. IEEE Transactions on Nuclear Science, 2009, 56, 3442-3449.	2.0	18
13	Evaluation of new cosmic radiation monitors designed for aircrew exposure assessment. Space Weather, 2010, 8, n/a-n/a.	3.7	13
14	Ground-based evaluation of dosimeters for NASA high-altitude balloon flight. Space Weather, 2016, 14, 1011-1025.	3.7	13
15	The disappearance of the pfotzer-regener maximum in dose equivalent measurements in the stratosphere. Space Weather, 2016, 14, 776-785.	3.7	12
16	Radiation measurements onboard aircraft in the South Atlantic region. Radiation Measurements, 2015, 82, 14-20.	1.4	11
17	Data Exploitation of New Galileo Environmental Monitoring Units. IEEE Transactions on Nuclear Science, 2019, 66, 1761-1769.	2.0	11
18	A New Model of Outer Belt Electrons for Dielectric Internal Charging (MOBE-DIC). IEEE Transactions on Nuclear Science, 2015, 62, 2767-2775.	2.0	10

#	ARTICLE	IF	CITATIONS
19	Extreme internal charging currents in medium Earth orbit: Analysis of SURF plate currents on Giove-A. <i>Space Weather</i> , 2016, 14, 578-591.	3.7	10
20	Modeling of Electric Fields Inside Spacecraft Dielectrics Using In-Orbit Charging Current Data. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 1927-1932.	1.3	8
21	Experimental Measurement of Low-Intensity and Long-Duration Internal Charging Behavior. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 1938-1946.	1.3	8
22	New Data and Modelling for Single Event Effects in the Stratospheric Radiation Environment. <i>IEEE Transactions on Nuclear Science</i> , 2017, 64, 587-595.	2.0	8
23	Single-Event Effects in Ground-Level Infrastructure During Extreme Ground-Level Enhancements. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 1139-1143.	2.0	6
24	A New Model for Nowcasting the Aviation Radiation Environment With Comparisons to In Situ Measurements During GLEs. <i>Space Weather</i> , 2022, 20, .	3.7	5
25	Validation of Internal Charging Tools With Experiments in REEF. <i>IEEE Transactions on Plasma Science</i> , 2019, 47, 3824-3833.	1.3	4
26	Study of internal charging of four commonly used polymers through experimental and numerical analysis. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	4
27	A Citizen Science Network for Measurements of Atmospheric Ionizing Radiation Levels. <i>Space Weather</i> , 2019, 17, 877-893.	3.7	4
28	Detecting Ground Level Enhancements Using Soil Moisture Sensor Networks. <i>Space Weather</i> , 2021, 19, e2021SW002800.	3.7	4
29	Zenith: A Radiosonde Detector for Rapid Response Ionizing Atmospheric Radiation Measurements During Solar Particle Events. <i>Space Weather</i> , 2018, 16, 261-272.	3.7	2
30	An Update to MOBE-DIC Using Current Monitor Measurements From Galileo. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 181-190.	2.0	1