Matthias M Meier

List of Publications by Year
in descending order

30	470	687363 13	713466 21
papers	citations	h-index	g-index

30	30	30	400
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	NAIRAS aircraft radiation model development, dose climatology, and initial validation. Space Weather, 2013, 11, 603-635.	3.7	66
2	Cellular Monitoring of the Nuclear Factor ÎºB Pathway for Assessment of Space Environmental Radiation. Radiation Research, 2005, 164, 527-530.	1.5	34
3	Space Radiation and Plasma Effects on Satellites and Aviation: Quantities and Metrics for Tracking Performance of Space Weather Environment Models. Space Weather, 2019, 17, 1384-1403.	3.7	32
4	Numerical calculation of the radiation exposure from galactic cosmic rays at aviation altitudes with the PANDOCA core model. Space Weather, 2014, 12, 161-171.	3.7	31
5	Dosimetry at aviation altitudes (2006-2008). Radiation Protection Dosimetry, 2009, 136, 251-255.	0.8	30
6	Advances in Atmospheric Radiation Measurements and Modeling Needed to Improve Air Safety. Space Weather, 2015, 13, 202-210.	3.7	30
7	A space weather index for the radiation field at aviation altitudes. Journal of Space Weather and Space Climate, 2014, 4, A13.	3.3	28
8	Carbon-Ion-Induced Activation of the NF-ÎºB Pathway. Radiation Research, 2011, 175, 424-431.	1.5	25
9	Activation of the Nuclear Factor ÎºB pathway by heavy ion beams of different linear energy transfer. International Journal of Radiation Biology, 2011, 87, 954-963.	1.8	24
10	The ground level event 70 on December 13th, 2006 and related effective doses at aviation altitudes. Radiation Protection Dosimetry, 2009, 136, 304-310.	0.8	23
11	CONCORD: comparison of cosmic radiation detectors in the radiation field at aviation altitudes. Journal of Space Weather and Space Climate, 2016, 6, A24.	3.3	20
12	The Solar Particle Event on 10â€“13 September 2017: Spectral Reconstruction and Calculation of the Radiation Exposure in Aviation and Space. Space Weather, 2018, 16, 977-986.	3.7	19
13	Radiation in the Atmosphereâ€”A Hazard to Aviation Safety?. Atmosphere, 2020, 11, 1358.	2.3	14
14	RaDâ€X: Complementary measurements of dose rates at aviation altitudes. Space Weather, 2016, 14, 689-694.	3.7	13
15	First Steps Toward the Verification of Models for the Assessment of the Radiation Exposure at Aviation Altitudes During Quiet Space Weather Conditions. Space Weather, 2018, 16, 1269-1276.	3.7	11
16	Monte-Carlo calculations of particle fluences and neutron effective dose rates in the atmosphere. Radiation Protection Dosimetry, 2008, 131, 222-228.	0.8	10
17	Economic impact and effectiveness of radiation protection measures in aviation during a ground level enhancement. Journal of Space Weather and Space Climate, 2015, 5, A17.	3.3	10
18	Solar Cosmic Ray Dose Rate Assessments During GLE 72 Using MIRA and PANDOCA. Space Weather, 2018, 16, 969-976.	3.7	10

#	Article	IF	Citations
19	Cellular monitoring systems for the assessment of space environmental factors. Advances in Space Research, 2005, 36, 1673-1679.	2.6	8
20	Measurements of the radiation quality factor Q at aviation altitudes during solar minimum (2006â€“2008). Advances in Space Research, 2010, 45, 1178-1181.	2.6	7
21	New operational dose quantity ambient dose H* in the context of galactic cosmic radiation in aviation. Journal of Radiological Protection, 2022, 42, 021520.	1.1	5
22	Detection of Î´-electron events in charge coupled devices: a fingerprint of single swift heavy ions. Nuclear Instruments & Methods in Physics Research B, 1998, 146, 601-606.	1.4	4
23	Assessment of the skin dose for aircrew. Journal of Radiological Protection, 2017, 37, 321-328.	1.1	4
24	Measurement of UV radiation in commercial aircraft. Journal of Radiological Protection, 2019, 39, 85-96.	1.1	4
25	Characterizing the Variation in Atmospheric Radiation at Aviation Altitudes. , 2018, , 453-471.		3
26	Dose assessment of aircrew: the impact of the weighting factors according to ICRP 103. Journal of Radiological Protection, 2019, 39, 698-706.	1.1	3
27	Reply to comment by Socol et al. on â€œNAIRAS aircraft radiation model development, dose climatology, and initial validationâ€• Space Weather, 2014, 12, 122-122.	3.7	1
28	Comment on â€œU.S. Government shutdown degrades aviation radiation monitoring during solar radiation stormâ€•by W. Kent Tobiska et al.. Space Weather, 2014, 12, 318-319.	3.7	1
29	Determination of charge states of single swift heavy projectiles by high-energy delta-electrons. Radiation Measurements, 2001, 34, 281-285.	1.4	0
30	Cosmic Radiation Exposure of Flight Crews. , 2009, , 151-169.		0