Hayley Allison

List of Publications by Year
in descending order

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25 papers	405 citations	759055 12 h-index	839398 18 g-index
42 all docs	42 docs citations	42 times ranked	410 citing authors

#	Article	IF	Citations
1	Gyroresonant wave-particle interactions with chorus waves during extreme depletions of plasma density in the Van Allen radiation belts. Science Advances, 2021, 7, .	4.7	40
2	Local heating of radiation belt electrons to ultra-relativistic energies. Nature Communications, 2020, 11, 4533.	5.8	38
3	Medium Energy Electron Flux in Earth's Outer Radiation Belt (MERLIN): A Machine Learning Model. Space Weather, 2020, 18, e2020SW002532.	1.3	31
4	The Role of Hiss, Chorus, and EMIC Waves in the Modeling of the Dynamics of the Multiâ€MeV Radiation Belt Electrons. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028282.	0.8	28
5	Variability of Quasilinear Diffusion Coefficients for Plasmaspheric Hiss. Journal of Geophysical Research: Space Physics, 2019, 124, 8488-8506.	0.8	27
6	Electron Diffusion and Advection During Nonlinear Interactions With Whistlerâ€Mode Waves. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028793.	0.8	27
7	Particleâ€inâ€Cell Experiments Examine Electron Diffusion by Whistlerâ€Mode Waves: 2. Quasiâ€Linear and Nonlinear Dynamics. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027949.	0.8	25
8	The magnetic local time distribution of energetic electrons in the radiation belt region. Journal of Geophysical Research: Space Physics, 2017, 122, 8108-8123.	0.8	18
9	A Comparison of Radial Diffusion Coefficients in 1â€D and 3â€D Longâ€Term Radiation Belt Simulations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028707.	0.8	18
10	Comparing Electron Precipitation Fluxes Calculated From Pitch Angle Diffusion Coefficients to LEO Satellite Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028410.	0.8	17
11	Determination of the Equatorial Electron Differential Flux From Observations at Low Earth Orbit. Journal of Geophysical Research: Space Physics, 2018, 123, 9574-9596.	0.8	15
12	On the Importance of Gradients in the Lowâ€Energy Electron Phase Space Density for Relativistic Electron Acceleration. Journal of Geophysical Research: Space Physics, 2019, 124, 2628-2642.	0.8	14
13	Quantifying the Effects of EMIC Wave Scattering and Magnetopause Shadowing in the Outer Electron Radiation Belt by Means of Data Assimilation. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028208.	0.8	13
14	A New Population of Ultraâ€Relativistic Electrons in the Outer Radiation Zone. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	13
15	Particleâ€inâ€cell Experiments Examine Electron Diffusion by Whistlerâ€mode Waves: 1. Benchmarking With a Cold Plasma. Journal of Geophysical Research: Space Physics, 2019, 124, 8893-8912.	0.8	12
16	Local-time averaged maps of H ₃ ⁺ emission, temperature and ion winds. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180405.	1.6	11
17	Depletions of Multiâ€MeV Electrons and Their Association to Minima in Phase Space Density. Geophysical Research Letters, 2022, 49, .	1.5	10
18	Drift Orbit Bifurcations and Crossâ€Field Transport in the Outer Radiation Belt: Global MHD and Integrated Testâ€Particle Simulations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029802.	0.8	9

#	Article	IF	Citations
19	The Implications of Temporal Variability in Waveâ€Particle Interactions in Earth's Radiation Belts. Geophysical Research Letters, 2021, 48, e2020GL089962.	1.5	9
20	Preliminary Statistical Comparisons of Spinâ€Averaged Electron Data From Arase and Van Allen Probes Instruments. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028929.	0.8	8
21	Radial Transport Versus Local Acceleration: The Longâ€Standing Debate. Earth and Space Science, 2022, 9, .	1.1	7
22	Storm-Time Evolution of the Equatorial Electron Pitch Angle Distributions in Earthâ€™s Outer Radiation Belt. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	7
23	An Empirical Model of the Equatorial Electron Pitch Angle Distributions in Earth's Outer Radiation Belt. Space Weather, 2022, 20, .	1.3	3
24	Which Parameter Controls Ring Current Electron Dynamics. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	3
25	A global view of storms and substorms. Astronomy and Geophysics, 2019, 60, 3.13-3.19.	0.1	1