

# Robyn M Millan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4385909/publications.pdf>

Version: 2024-02-01

51  
papers

2,137  
citations

236833

25  
h-index

223716

46  
g-index

51  
all docs

51  
docs citations

51  
times ranked

1486  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019, 215, 9.	3.7	332
2	A Monte Carlo simulation of the NOAA POES Medium Energy Proton and Electron Detector instrument. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	147
3	X-ray observations of MeV electron precipitation with a balloon-borne germanium spectrometer. <i>Geophysical Research Letters</i> , 2002, 29, 47-1-47-4.	1.5	128
4	Precipitation of relativistic electrons by interaction with electromagnetic ion cyclotron waves. <i>Journal of Geophysical Research</i> , 2000, 105, 5381-5389.	3.3	126
5	Observations of coincident EMIC wave activity and duskside energetic electron precipitation on 18â€“19 January 2013. <i>Geophysical Research Letters</i> , 2015, 42, 5727-5735.	1.5	102
6	Observation of relativistic electron precipitation during a rapid decrease of trapped relativistic electron flux. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	83
7	Global-scale coherence modulation of radiation-belt electron loss from plasmaspheric hiss. <i>Nature</i> , 2015, 523, 193-195.	13.7	83
8	Investigation of EMIC wave scattering as the cause for the BARREL 17 January 2013 relativistic electron precipitation event: A quantitative comparison of simulation with observations. <i>Geophysical Research Letters</i> , 2014, 41, 8722-8729.	1.5	78
9	The Balloon Array for RBSP Relativistic Electron Losses (BARREL). <i>Space Science Reviews</i> , 2013, 179, 503-530.	3.7	76
10	Acceleration of Particles to High Energies in Earthâ€™s Radiation Belts. <i>Space Science Reviews</i> , 2012, 173, 103-131.	3.7	74
11	Acceleration and loss of relativistic electrons during small geomagnetic storms. <i>Geophysical Research Letters</i> , 2015, 42, 10113-10119.	1.5	74
12	A summary of the BARREL campaigns: Technique for studying electron precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4922-4935.	0.8	65
13	First detection of a terrestrial MeV X-ray burst. <i>Geophysical Research Letters</i> , 1998, 25, 4109-4112.	1.5	59
14	The role of drift orbit bifurcations in energization and loss of electrons in the outer radiation belt. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	51
15	New conjunctive CubeSat and balloon measurements to quantify rapid energetic electron precipitation. <i>Geophysical Research Letters</i> , 2013, 40, 5833-5837.	1.5	43
16	Pitch Angle Scattering of Subâ€“MeV Relativistic Electrons by Electromagnetic Ion Cyclotron Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5610-5626.	0.8	41
17	Duskside relativistic electron precipitation as measured by SAMPEX: A statistical survey. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5050-5058.	0.8	36
18	EMIC waves and associated relativistic electron precipitation on 25â€“26 January 2013. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,086.	0.8	36

#	ARTICLE	IF	CITATIONS
19	BARREL observations of an ICME shock impact with the magnetosphere and the resultant radiation belt electron loss. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2557-2570.	0.8	35
20	Statistical Investigation of the Efficiency of EMIC Waves in Precipitating Relativistic Electrons. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6223-6230.	0.8	34
21	Energetic particle precipitation into the middle atmosphere triggered by a coronal mass ejection. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	33
22	Investigating energetic electron precipitation through combining ground-based and balloon observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 534-546.	0.8	31
23	Investigating Loss of Relativistic Electrons Associated With EMIC Waves at Low $L$ Values on 22 June 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4022-4036.	0.8	28
24	Rapid fluctuations of stratospheric electric field following a solar energetic particle event. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	27
25	Spatial distribution of relativistic electron precipitation during a radiation belt depletion event. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	27
26	Spatial scale and duration of one microburst region on 13 August 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5949-5964.	0.8	25
27	Simulation of ULF wave-modulated radiation belt electron precipitation during the 17 March 2013 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3444-3461.	0.8	23
28	Energetic radiation belt electron precipitation showing ULF modulation. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	22
29	Impact of Background Magnetic Field for EMIC Wave-Driven Electron Precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8518-8532.	0.8	21
30	A Statistical Study of the Spatial Extent of Relativistic Electron Precipitation With Polar Orbiting Environmental Satellites. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,274.	0.8	19
31	Simulation of the energy distribution of relativistic electron precipitation caused by quasi-linear interactions with EMIC waves. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7576-7583.	0.8	17
32	Generation of EMIC Waves and Effects on Particle Precipitation During a Solar Wind Pressure Intensification With $B_z < 0$ . <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4492-4508.	0.8	17
33	Detailed characteristics of radiation belt electrons revealed by CSSWE/REPTile measurements: Geomagnetic activity response and precipitation observation. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8434-8445.	0.8	16
34	Relativistic Electron Precipitation Near Midnight: Drivers, Distribution, and Properties. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	14
35	The causes of the hardest electron precipitation events seen with SAMPEX. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8600-8613.	0.8	13
36	Statistical Dependence of EMIC Wave Scattering on Wave and Plasma Parameters. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027772.	0.8	13

#	ARTICLE	IF	CITATIONS
37	Laboratory Measurements of X-Ray Emissions From Centimeter-Long Streamer Corona Discharges. Geophysical Research Letters, 2017, 44, 11,174.	1.5	11
38	Driving of Outer Belt Electron Loss by Solar Wind Dynamic Pressure Structures: Analysis of Balloon and Satellite Data. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028097.	0.8	10
39	POES/MEPED Angular Response Functions and the Precipitating Radiation Belt Electron Flux. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028240.	0.8	10
40	A Statistical Study of Spatial Variation of Relativistic Electron Precipitation Energy Spectra With Polar Operational Environmental Satellites. Journal of Geophysical Research: Space Physics, 2018, 123, 3349-3359.	0.8	9
41	X-Ray Signatures of Lightning-Induced Electron Precipitation. Journal of Geophysical Research: Space Physics, 2019, 124, 10230-10245.	0.8	9
42	BARREL observations of a solar energetic electron and solar energetic proton event. Journal of Geophysical Research: Space Physics, 2016, 121, 4205-4216.	0.8	8
43	Test-Particle Simulations of Linear and Nonlinear Interactions Between a 2-D Whistler-Mode Wave Packet and Radiation Belt Electrons. Geophysical Research Letters, 2018, 45, 5234-5245.	1.5	7
44	Nanosat and balloon-based studies of radiation belt loss: low-cost access to space. , 2020, , 121-144.		6
45	Statistically Determining the Spatial Extent of Relativistic Electron Precipitation Events Using 2-s Polar-Orbiting Satellite Data. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028675.	0.8	5
46	Hybrid fluid-particle simulation of whistler-mode waves in a compressed dipole magnetic field: Implications for dayside high-latitude chorus. Journal of Geophysical Research: Space Physics, 2017, 122, 432-448.	0.8	4
47	Multi-Point Observations of Modulated Whistler-Mode Waves and Energetic Electron Precipitation. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	4
48	A rooftop radio observatory: An undergraduate telescope system at the University of California at Berkeley. American Journal of Physics, 1998, 66, 768-771.	0.3	3
49	Limits on thunderstorm-induced radioactive chlorine from gamma ray observations. Journal of Geophysical Research, 2011, 116, .	3.3	2
50	Quantification of the Atmospheric Relativistic Electron Precipitation on 17 January 2013. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028014.	0.8	0
51	Fast Non-Equilibrium Pitch Angle Diffusion in a Plasmaspheric Plume Associated with BARREL Precipitation. , 2022, , .		0