

# Sarah A Glauert

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

4,682  
citations

201674

27  
h-index

175258

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1732  
citing authors

#	ARTICLE	IF	CITATIONS
1	Timescale for radiation belt electron acceleration by whistler mode chorus waves. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	561
2	Wave acceleration of electrons in the Van Allen radiation belts. <i>Nature</i> , 2005, 437, 227-230.	27.8	505
3	Calculation of pitch angle and energy diffusion coefficients with the PADIE code. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	405
4	Electron acceleration in the Van Allen radiation belts by fast magnetosonic waves. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	341
5	Slot region electron loss timescales due to plasmaspheric hiss and lightning-generated whistlers. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	228
6	Resonant diffusion of radiation belt electrons by whistler-mode chorus. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	200
7	Three-dimensional electron radiation belt simulations using the BAS Radiation Belt Model with new diffusion models for chorus, plasmaspheric hiss, and lightning-generated whistlers. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 268-289.	2.4	176
8	Origin of energetic electron precipitation >30 keV into the atmosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	171
9	Energetic outer zone electron loss timescales during low geomagnetic activity. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	170
10	Acceleration mechanism responsible for the formation of the new radiation belt during the 2003 Halloween solar storm. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	157
11	Space weather impacts on satellites and forecasting the Earth's electron radiation belts with SPACECAST. <i>Space Weather</i> , 2013, 11, 169-186.	3.7	149
12	Radiation Belt Environment model: Application to space weather nowcasting. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	140
13	Relativistic electron loss timescales in the slot region. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	137
14	Electron losses from the radiation belts caused by EMIC waves. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8820-8837.	2.4	132
15	Simulation of the outer radiation belt electrons near geosynchronous orbit including both radial diffusion and resonant interaction with Whistler-mode chorus waves. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	131
16	Three-dimensional test simulations of the outer radiation belt electron dynamics including electron-chorus resonant interactions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	109
17	Gyro-resonant electron acceleration at Jupiter. <i>Nature Physics</i> , 2008, 4, 301-304.	16.7	84
18	A new diffusion matrix for whistler mode chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6302-6318.	2.4	70

#	ARTICLE	IF	CITATIONS
19	Quasi-linear simulations of inner radiation belt electron pitch angle and energy distributions. <i>Geophysical Research Letters</i> , 2016, 43, 2381-2388.	4.0	70
20	Low-altitude measurements of 2–6 MeV electron trapping lifetimes at 1.5–2.5 L. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	68
21	Interaction of EMIC Waves With Thermal Plasma and Radiation Belt Particles. <i>Geophysical Monograph Series</i> , 2006, , 213-223.	0.1	66
22	A 30-Year Simulation of the Outer Electron Radiation Belt. <i>Space Weather</i> , 2018, 16, 1498-1522.	3.7	46
23	Modeling the effects of radial diffusion and plasmaspheric hiss on outer radiation belt electrons. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	39
24	Mechanisms for the acceleration of radiation belt electrons. <i>Geophysical Monograph Series</i> , 2006, , 151-173.	0.1	36
25	Effects of VLF Transmitter Waves on the Inner Belt and Slot Region. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5260-5277.	2.4	33
26	Radiation Effects on Satellites During Extreme Space Weather Events. <i>Space Weather</i> , 2018, 16, 1216-1226.	3.7	32
27	Formation of electron radiation belts at Saturn by Z-mode wave acceleration. <i>Nature Communications</i> , 2018, 9, 5062.	12.8	29
28	Simulating the Earth's radiation belts: Internal acceleration and continuous losses to the magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7444-7463.	2.4	27
29	Variability of Quasilinear Diffusion Coefficients for Plasmaspheric Hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8488-8506.	2.4	27
30	Particle-in-Cell Experiments Examine Electron Diffusion by Whistler-Mode Waves: 2. Quasi-Linear and Nonlinear Dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027949.	2.4	25
31	Longitudinal and seasonal variations in plasmaspheric electron density: Implications for electron precipitation. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	24
32	Realistic Worst Case for a Severe Space Weather Event Driven by a Fast Solar Wind Stream. <i>Space Weather</i> , 2018, 16, 1202-1215.	3.7	23
33	Forecasting the Earth's radiation belts and modelling solar energetic particle events: Recent results from SPACECAST. <i>Journal of Space Weather and Space Climate</i> , 2013, 3, A20.	3.3	22
34	Three-dimensional stochastic modeling of radiation belts in adiabatic invariant coordinates. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7615-7635.	2.4	22
35	Rapid Electron Acceleration in Low-Density Regions of Saturn's Radiation Belt by Whistler Mode Chorus Waves. <i>Geophysical Research Letters</i> , 2019, 46, 7191-7198.	4.0	22
36	A New Approach to Constructing Models of Electron Diffusion by EMIC Waves in the Radiation Belts. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088976.	4.0	22

#	ARTICLE	IF	CITATIONS
37	Electron acceleration at Jupiter: input from cyclotron-resonant interaction with whistler-mode chorus waves. <i>Annales Geophysicae</i> , 2013, 31, 1619-1630.	1.6	20
38	On the Variability of EMIC Waves and the Consequences for the Relativistic Electron Radiation Belt Population. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029754.	2.4	19
39	The magnetic local time distribution of energetic electrons in the radiation belt region. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8108-8123.	2.4	18
40	Comparing Electron Precipitation Fluxes Calculated From Pitch Angle Diffusion Coefficients to LEO Satellite Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028410.	2.4	17
41	Determination of the Equatorial Electron Differential Flux From Observations at Low Earth Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9574-9596.	2.4	15
42	On the Importance of Gradients in the Low-Energy Electron Phase Space Density for Relativistic Electron Acceleration. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2628-2642.	2.4	14
43	Particle-in-cell Experiments Examine Electron Diffusion by Whistler-mode Waves: 1. Benchmarking With a Cold Plasma. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8893-8912.	2.4	12
44	Drift Orbit Bifurcations and Cross-Field Transport in the Outer Radiation Belt: Global MHD and Integrated Test-Particle Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029802.	2.4	9
45	The Implications of Temporal Variability in Wave-Particle Interactions in Earth's Radiation Belts. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089962.	4.0	9
46	Evaluation of SaRIF High-Energy Electron Reconstructions and Forecasts. <i>Space Weather</i> , 2021, 19, e2021SW002822.	3.7	9
47	Solar Cell Degradation Due to Proton Belt Enhancements During Electric Orbit Raising to GEO. <i>Space Weather</i> , 2019, 17, 1059-1072.	3.7	8
48	The Satellite Risk Prediction and Radiation Forecast System (SaRIF). <i>Space Weather</i> , 2021, 19, .	3.7	8
49	Acceleration of Electrons by Whistler-Mode Hiss Waves at Saturn. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
50	Wave-Driven Diffusion in Radiation Belt Dynamics. , 2016, , 217-243.		6
51	Cross-Coherence of the Outer Radiation Belt During Storms and the Role of the Plasmopause. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029308.	2.4	5
52	Electron Diffusion by Magnetosonic Waves in the Earth's Radiation Belts. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	3
53	Optimization of Radial Diffusion Coefficients for the Proton Radiation Belt During the CRRES Era. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028486.	2.4	2
54	Modelling Inner Proton Belt Variability at Energies 1 to 10MeV using BAS-PRO. <i>Journal of Geophysical Research: Space Physics</i> , 0, , .	2.4	2