

# Sarah A Glauert

## List of Publications by Year in descending order

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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	Acceleration of Electrons by Whistlerâ€Mode Hiss Waves at Saturn. Geophysical Research Letters, 2022, 49, .	4.0	7
2	Electron Diffusion by Magnetosonic Waves in the Earthâ€™s Radiation Belts. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	3
3	Optimization of Radial Diffusion Coefficients for the Proton Radiation Belt During the CRRES Era. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028486.	2.4	2
4	Comparing Electron Precipitation Fluxes Calculated From Pitch Angle Diffusion Coefficients to LEO Satellite Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028410.	2.4	17
5	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.	2.4	9
6	Crossâ€Coherence of the Outer Radiation Belt During Storms and the Role of the Plasmopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029308.	2.4	5
7	The Implications of Temporal Variability in Waveâ€Particle Interactions in Earth's Radiation Belts. Geophysical Research Letters, 2021, 48, e2020GL089962.	4.0	9
8	Evaluation of SaRIF Highâ€Energy Electron Reconstructions and Forecasts. Space Weather, 2021, 19, e2021SW002822.	3.7	9
9	On the Variability of EMIC Waves and the Consequences for the Relativistic Electron Radiation Belt Population. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029754.	2.4	19
10	The Satellite Risk Prediction and Radiation Forecast System (SaRIF). Space Weather, 2021, 19, .	3.7	8
11	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.	2.4	25
12	A New Approach to Constructing Models of Electron Diffusion by EMIC Waves in the Radiation Belts. Geophysical Research Letters, 2020, 47, e2020GL088976.	4.0	22
13	Rapid Electron Acceleration in Lowâ€Density Regions of Saturn's Radiation Belt by Whistler Mode Chorus Waves. Geophysical Research Letters, 2019, 46, 7191-7198.	4.0	22
14	Solar Cell Degradation Due to Proton Belt Enhancements During Electric Orbit Raising to GEO. Space Weather, 2019, 17, 1059-1072.	3.7	8
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.	2.4	12
16	Variability of Quasilinear Diffusion Coefficients for Plasmaspheric Hiss. Journal of Geophysical Research: Space Physics, 2019, 124, 8488-8506.	2.4	27
17	Effects of VLF Transmitter Waves on the Inner Belt and Slot Region. Journal of Geophysical Research: Space Physics, 2019, 124, 5260-5277.	2.4	33
18	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.	2.4	14

#	ARTICLE	IF	CITATIONS
19	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
20	A 30-year Simulation of the Outer Electron Radiation Belt. <i>Space Weather</i> , 2018, 16, 1498-1522.	3.7	46
21	Formation of electron radiation belts at Saturn by Z-mode wave acceleration. <i>Nature Communications</i> , 2018, 9, 5062.	12.8	29
22	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
23	Radiation Effects on Satellites During Extreme Space Weather Events. <i>Space Weather</i> , 2018, 16, 1216-1226.	3.7	32
24	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
25	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
26	Wave-Driven Diffusion in Radiation Belt Dynamics. , 2016, , 217-243.		6
27	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
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	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
30	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
31	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
32	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
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	A new diffusion matrix for whistler mode chorus waves. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6302-6318.	2.4	70
35	Origin of energetic electron precipitation >30 keV into the atmosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	171
36	Relativistic electron loss timescales in the slot region. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	137

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37	Gyro-resonant electron acceleration at Jupiter. <i>Nature Physics</i> , 2008, 4, 301-304.	16.7	84
38	Radiation Belt Environment model: Application to space weather nowcasting. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	140
39	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
40	Low-altitude measurements of 2–6 MeV electron trapping lifetimes at 1.5 $\leq L \leq$ 2.5. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	68
41	Electron acceleration in the Van Allen radiation belts by fast magnetosonic waves. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	341
42	Modeling the effects of radial diffusion and plasmaspheric hiss on outer radiation belt electrons. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	39
43	Slot region electron loss timescales due to plasmaspheric hiss and lightning-generated whistlers. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	228
44	Longitudinal and seasonal variations in plasmaspheric electron density: Implications for electron precipitation. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	24
45	Interaction of EMIC Waves With Thermal Plasma and Radiation Belt Particles. <i>Geophysical Monograph Series</i> , 2006, , 213-223.	0.1	66
46	Mechanisms for the acceleration of radiation belt electrons. <i>Geophysical Monograph Series</i> , 2006, , 151-173.	0.1	36
47	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
48	Energetic outer zone electron loss timescales during low geomagnetic activity. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	170
49	Wave acceleration of electrons in the Van Allen radiation belts. <i>Nature</i> , 2005, 437, 227-230.	27.8	505
50	Timescale for radiation belt electron acceleration by whistler mode chorus waves. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	561
51	Calculation of pitch angle and energy diffusion coefficients with the PADIE code. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	405
52	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
53	Resonant diffusion of radiation belt electrons by whistler-mode chorus. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	200
54	Modelling Inner Proton Belt Variability at Energies 1 to 10MeV using BASPRO. <i>Journal of Geophysical Research: Space Physics</i> , 0, , .	2.4	2