

# Georg Fischer

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,488  
citations

279798

23  
h-index

315739

38  
g-index

49  
all docs

49  
docs citations

49  
times ranked

761  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radio and Plasma Wave Observations at Saturn from Cassini's Approach and First Orbit. <i>Science</i> , 2005, 307, 1255-1259.	12.6	236
2	A giant thunderstorm on Saturn. <i>Nature</i> , 2011, 475, 75-77.	27.8	116
3	Dynamics of Saturn's great storm of 2010-2011 from Cassini ISS and RPWS. <i>Icarus</i> , 2013, 223, 460-478.	2.5	81
4	Analysis of a giant lightning storm on Saturn. <i>Icarus</i> , 2007, 190, 528-544.	2.5	78
5	Lightning storms on Saturn observed by Cassini ISS and RPWS during 2004-2006. <i>Icarus</i> , 2007, 190, 545-555.	2.5	67
6	Saturn lightning recorded by Cassini/RPWS in 2004. <i>Icarus</i> , 2006, 183, 135-152.	2.5	57
7	Updated Review of Planetary Atmospheric Electricity. <i>Space Science Reviews</i> , 2008, 137, 29-49.	8.1	47
8	Instrumental methods for professional and amateur collaborations in planetary astronomy. <i>Experimental Astronomy</i> , 2014, 38, 91-191.	3.7	47
9	Atmospheric Electricity at Saturn. <i>Space Science Reviews</i> , 2008, 137, 271-285.	8.1	44
10	Detection of visible lightning on Saturn. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	42
11	In-flight calibration of the Cassini-Radio and Plasma Wave Science (RPWS) antenna system for direction-finding and polarization measurements. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	39
12	Source locations of narrowband radio emissions detected at Saturn. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	38
13	Elliptical polarization of Saturn Kilometric Radiation observed from high latitudes. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	36
14	Saturn's visible lightning, its radio emissions, and the structure of the 2009-2011 lightning storms. <i>Icarus</i> , 2013, 226, 1020-1037.	2.5	36
15	Lightning activity on Titan: can Cassini detect it?. <i>Planetary and Space Science</i> , 2001, 49, 561-574.	1.7	33
16	Ground-Based and Space-Based Radio Observations of Planetary Lightning. <i>Space Science Reviews</i> , 2008, 137, 257-269.	8.1	32
17	Saturn kilometric radiation periodicity after equinox. <i>Icarus</i> , 2015, 254, 72-91.	2.5	31
18	Z mode waves as the source of Saturn narrowband radio emissions. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	30

#	ARTICLE	IF	CITATIONS
19	Cassini observations of narrowband radio emissions in Saturn's magnetosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	26
20	The search for Titan lightning radio emissions. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	26
21	Discharge experiments simulating chemical evolution on the surface of Titan. <i>Icarus</i> , 2007, 187, 616-619.	2.5	25
22	Rotational modulation of Saturn's radio emissions after equinox. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,714.	2.4	25
23	Various methods of calibration of the STEREO/WAVES antennas. <i>Advances in Space Research</i> , 2009, 43, 355-364.	2.6	24
24	Rheometry of multi-port spaceborne antennas including mutual antenna capacitances and application to STEREO/WAVES. <i>Measurement Science and Technology</i> , 2007, 18, 3731-3742.	2.6	23
25	Ground-based and spacecraft observations of lightning activity on Saturn. <i>Planetary and Space Science</i> , 2012, 61, 53-59.	1.7	23
26	Analysis of spacecraft antenna systems: Implications for STEREO/WAVES. <i>Advances in Space Research</i> , 2005, 36, 1530-1533.	2.6	21
27	Nondetection of Titan lightning radio emissions with Cassini/RPWS after 35 close Titan flybys. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	21
28	Peak electron densities in Saturn's ionosphere derived from the low-frequency cutoff of Saturn lightning. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	21
29	Earliest recorded ground-based decameter wavelength observations of Saturn's lightning during the giant E-storm detected by Cassini spacecraft in early 2006. <i>Icarus</i> , 2013, 224, 14-23.	2.5	20
30	A possible influence of the Great White Spot on Saturn kilometric radiation periodicity. <i>Annales Geophysicae</i> , 2014, 32, 1463-1476.	1.6	19
31	Are Saturn electrostatic discharges really superbolts? A temporal dilemma. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	18
32	Atmospheric Electricity at the Ice Giants. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	14
33	An SLS5 Longitude System Based on the Rotational Modulation of Saturn Radio Emissions. <i>Geophysical Research Letters</i> , 2018, 45, 7297-7305.	4.0	13
34	Diurnal variation of electron density in Saturn's ionosphere: Model comparisons with Saturn Electrostatic Discharge (SED) observations. <i>Icarus</i> , 2012, 221, 508-516.	2.5	12
35	Lightning detection in planetary atmospheres. <i>Weather</i> , 2017, 72, 46-50.	0.7	9
36	The Great Saturn Storm of 2010-2011. , 2018, , 377-416.		9

#	ARTICLE	IF	CITATIONS
37	Statistical Study on Spatial Distribution and Polarization of Saturn Narrowband Emissions. <i>Astrophysical Journal</i> , 2021, 918, 64.	4.5	8
38	FINE TIME STRUCTURE OF LIGHTNINGS ON SATURN. <i>Radio Physics and Radio Astronomy</i> , 2014, 19, 10-19.	0.3	8
39	Polarization measurements of Saturn Electrostatic Discharges with Cassini/RPWS below a frequency of 2 MHz. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	6
40	Discrimination between Jovian radio emissions and Saturn electrostatic discharges. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	5
41	Cassini observation of Jovian anomalous continuum radiation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	4
42	In-flight calibration of STEREO/WAVES antenna system. <i>Radio Science</i> , 2014, 49, 146-156.	1.6	4
43	Analysis of a long-lived, two-cell lightning storm on Saturn. <i>Astronomy and Astrophysics</i> , 2019, 621, A113.	5.1	4
44	Seasonal variation of north-south asymmetry in the intensity of Saturn Kilometric Radiation from 2004 to 2017. <i>Planetary and Space Science</i> , 2019, 178, 104711.	1.7	3
45	Reflection and Refraction of the $\sim 5$ kHz Saturn Narrowband Emission by the Magnetosheath. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
46	SPORADIC RADIO EMISSION OF SPACE OBJECTS AT LOW-FREQUENCIES. <i>Radio Physics and Radio Astronomy</i> , 2021, 26, 99-129.	0.3	2
47	Nondetection of Radio Emissions From Titan Lightning by Cassini RPWS. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006496.	3.6	1
48	Calibration of the JUICE RWI antennas by numerical simulation. <i>Radio Science</i> , 2021, 56, e2021RS007309.	1.6	1
49	The Faraday rotation effect in Saturn Kilometric Radiation observed by the CASSINI spacecraft. <i>Icarus</i> , 2021, 370, 114661.	2.5	0