C Guillermo GimÃ©nez De Castro

List of Publications by Year
in descending order

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69	883	471509 17	526287 27
papers	citations	h-index	g-index

69	69	69	482
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A New Solar Burst Spectral Component Emitting Only in the Terahertz Range. Astrophysical Journal, 2004, 603, L121-L124.	4.5	103
2	Solar flares at submillimeter wavelengths. Astronomy and Astrophysics Review, 2013, 21, 1.	25.5	55
3	Evidence that Synchrotron Emission from Nonthermal Electrons Produces the Increasing Submillimeter Spectral Component in Solar Flares. Solar Physics, 2007, 245, 311-326.	2.5	54
4	Formation of the thermal infrared continuum in solar flares. Astronomy and Astrophysics, 2017, 605, A125.	5.1	32
5	Sub-terahertz, Microwaves and High Energy Emissions During the 6 December 2006 Flare, atÂ18:40ÂUT. Solar Physics, 2009, 255, 131-142.	2.5	31
6	Rapid Submillimeter Brightenings Associated with a Large Solar Flare. Astrophysical Journal, 2001, 548, L95-L98.	4.5	30
7	New telescopes for ground-based solar observations at submillimeter and mid-infrared. Proceedings of SPIE, 2008, , .	0.8	29
8	A BRIGHT IMPULSIVE SOLAR BURST DETECTED AT 30 THz. Astrophysical Journal, 2013, 768, 134.	4.5	29
9	THE BEHAVIOR OF THE 17 GHz SOLAR RADIUS AND LIMB BRIGHTENING IN THE SPOTLESS MINIMUM XXIII/XXIV. Astrophysical Journal, 2011, 734, 64.	4.5	27
10	Origin of the 30 THz Emission Detected During the Solar Flare on 2012 March 13 at 17:20 UT. Solar Physics, 2015, 290, 2809-2826.	2.5	25
11	Solar Submillimeter and Gammaâ€Ray Burst Emission. Astrophysical Journal, 2002, 574, 1059-1065.	4.5	23
12	Properties of Fast Submillimeter Time Structures during a Large Solar Flare. Astrophysical Journal, 2003, 592, 580-589.	4.5	22
13	RAPID PULSATIONS IN SUB-THz SOLAR BURSTS. Astrophysical Journal, 2009, 697, 420-427.	4.5	22
14	Origin of the Submillimeter Radio Emission During the Time-Extended Phase of a Solar Flare. Solar Physics, 2011, 273, 339-361.	2.5	21
15	Solar Polar Brightening and Radius at 100 and 230 GHz Observed by ALMA. Astrophysical Journal, 2019, 871, 45.	4.5	20
16	Launch of solar coronal mass ejections and submillimeter pulse bursts. Journal of Geophysical Research, 2003, 108, .	3.3	19
17	A solar burst with a spectral component observed only above 100ÂGHz during an M class flare. Astronomy and Astrophysics, 2008, 492, 215-222.	5.1	18
18	How are the EUV and radio polar limb-brightenings correlated?. Astronomy and Astrophysics, 2010, 509, A51.	5.1	17

#	Article	IF	Citations
19	Diffuse Component Spectra of Solar Active Regions at Submillimeter Wavelengths. Solar Physics, 2005, 227, 265-281.	2.5	16
20	Submillimeter and X-ray observations of an X class flare. Astronomy and Astrophysics, 2009, 507, 433-439.	5.1	16
21	Equatorial spread-F occurrence observed at two near equatorial stations in the Brazilian sector and its occurrence modulated by planetary waves. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 457-463.	1.6	16
22	Submillimeter-wave atmospheric transmission at El Leoncito, Argentina Andes. IEEE Transactions on Antennas and Propagation, 2005, 53, 1528-1534.	5.1	15
23	Correlated fast time structures at millimeter waves and hard X-rays during a solar burst. Solar Physics, 2000, 197, 361-374.	2.5	12
24	Wavelet Decomposition of Submillimeter Solar Radio Bursts. Solar Physics, 2003, 218, 211-220.	2.5	12
25	POlarization Emission of Millimeter Activity at the Sun (POEMAS): New Circular Polarization Solar Telescopes at Two Millimeter Wavelength Ranges. Solar Physics, 2013, 283, 651-665.	2.5	12
26	THE 17 GHz ACTIVE REGION NUMBER. Astrophysical Journal, 2014, 790, 134.	4.5	12
27	Nighttime sensitivity of ionospheric VLF measurements to Xâ€ray bursts from a remote cosmic source. Journal of Geophysical Research: Space Physics, 2014, 119, 4758-4766.	2.4	12
28	The 6 September 2017 X9 Super Flare Observed From Submillimeter to Midâ€IR. Space Weather, 2018, 16, 1261-1268.	3.7	12
29	Spatial Characterization of a Flare Using RadioÂObservations and Magnetic Field Topology. Solar Physics, 2007, 240, 271-281.	2.5	9
30	A Burst with Double Radio Spectrum Observed up to 212 GHz. Solar Physics, 2013, 284, 541-558.	2.5	9
31	A solar flare driven by thermal conduction observed in mid-infrared. Astronomy and Astrophysics, 2022, 657, A51.	5.1	9
32	The Relation Between the Radial Temperature Profile in the Chromosphere and the Solar Spectrum at Centimeter, Millimeter, Submillimeter, and Infrared Wavelengths. Solar Physics, 2014, 289, 2879-2889.	2.5	8
33	Comparison of solar radio and extreme ultraviolet synoptic limb charts during the present solar maximum. Astronomy and Astrophysics, 2016, 592, A91.	5.1	7
34	Self-consistent Modeling of Gamma-ray Spectra from Solar Flares with the Monte Carlo Simulation Package FLUKA. Solar Physics, 2019, 294, 1.	2.5	7
35	Multi-resolution wavelet analysis of high time resolution millimeter wavelength observations of solar bursts. Astronomy and Astrophysics, 2001, 366, 317-325.	5.1	7
36	The solar radius in the EUV during the cycle XXIII. Astronomy and Astrophysics, 2007, 476, 369-372.	5.1	7

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37	Pulsations at the Onset of the Great Solar Burst of 22 October 1989. Solar Physics, 1998, 178, 393-403.	2.5	6
38	SUB-THz AND HÎ± ACTIVITY DURING THE PREFLARE AND MAIN PHASES OF AGOESCLASS M2 EVENT. Astrophysical Journal, 2011, 742, 106.	4.5	6
39	Spectral Trends of Solar Bursts at Sub-THz Frequencies. Solar Physics, 2017, 292, 1.	2.5	6
40	A very narrow gyrosynchrotron spectrum during a solar flare. Astronomy and Astrophysics, 2006, 457, 693-697.	5.1	6
41	Precipitable water vapor and 212â€¯GHz atmospheric optical depth correlation at El Leoncito site. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 168, 32-36.	1.6	5
42	HATS: A Ground-Based Telescope to Explore the THz Domain. Solar Physics, 2020, 295, 1.	2.5	5
43	The Submillimeter Active Region Excess Brightness Temperature during Solar Cycles 23 and 24. Astrophysical Journal, 2020, 902, 136.	4.5	5
44	Spectral signature of solar active region in millimetre and submillimetre wavelengths. Monthly Notices of the Royal Astronomical Society, 2020, 500, 1964-1969.	4.4	5
45	Solar Flare Observations at Submm-waves. Symposium - International Astronomical Union, 2001, 203, 283-286.	0.1	4
46	Association of Radio Polar Cap Brightening with Bright Patches and Coronal Holes. Astrophysical Journal, 2017, 851, 146.	4.5	4
47	The Solar Radius at 37 GHz Through Cycles 22 to 24. Solar Physics, 2019, 294, 1.	2.5	4
48	FLUKA Simulations of Pion Decay Gamma-Radiation from Energetic Flare Ions. Solar Physics, 2020, 295, 1.	2.5	4
49	Optical depth measurements at 45 and 90ÂGHz in CASLEO. Journal of Atmospheric and Solar-Terrestrial Physics, 2020, 199, 105214.	1.6	4
50	The Subterahertz Solar Cycle: Polar and Equatorial Radii Derived from SST and ALMA. Astrophysical Journal, 2021, 910, 77.	4.5	4
51	Radiation-driven Magnetohydrodynamic Wind Solutions for Hot Luminous Stars. Astrophysical Journal, 1996, 464, 859.	4.5	4
52	A Genetic Algorithm to Model Solar Radio Active Regions From 3D Magnetic Field Extrapolations. Frontiers in Astronomy and Space Sciences, 0, 9, .	2.8	4
53	Ruprecht 55: an OB association at the edge of our Galaxy. Monthly Notices of the Royal Astronomical Society, 2003, 341, 169-178.	4.4	3
54	Submillimeter-wave and observations of the event on 28 November, 2001. Journal of Atmospheric and Solar-Terrestrial Physics, 2005, 67, 1744-1750.	1.6	3

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55	Recent results on solar activity at submillimeter wavelengths. Advances in Space Research, 2005, 35, 1769-1773.	2.6	3
56	Contribution of energetic ion secondary particles to solar flare radio spectra. Proceedings of the International Astronomical Union, 2016, 12, 120-123.	0.0	3
57	Submillimeter Radiation as the Thermal Component of the Neupert Effect. Solar Physics, 2019, 294, 1.	2.5	3
58	Subterahertz radius and limb brightening of the Sun derived from SST and ALMA. Monthly Notices of the Royal Astronomical Society, 2022, 511, 877-885.	4.4	3
59	Asymmetric precipitation in a coronal loop as explanation of a singular observed spectrum. Advances in Space Research, 2009, 44, 1314-1320.	2.6	2
60	Search for continuum solar flare radiation in the terahertz range. , 2010, , .		2
61	SOLAR-T: terahertz photometers to observe solar flare emission on stratospheric balloon flights. , 2012, , .		2
62	Unusual Emissions at Various Energies Prior to the Impulsive Phase of the Large Solar Flare and Coronal Mass Ejection of 4 November 2003. Solar Physics, 2012, 279, 465-475.	2.5	2
63	Analysis of Intermittency in Submillimeter Radio and Hard X-Ray Data During the Impulsive Phase of a Solar Flare. Solar Physics, 2016, 291, 2003-2016.	2.5	2
64	The LLAMA Brazilian-Argentinian radiotelescope project: progress in Brazil and BRICS collaboration. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20200846.	0.8	2
65	Observed flux density enhancement at submillimeter wavelengths during an X-class flare. Advances in Space Research, 2007, 39, 1445-1450.	2.6	1
66	Sub-millimeter Atmospheric Opacity Over â€œEl Leoncitoâ€•Site. , 2020, , .		1
67	Joint Measurements of Flare Flux Densities at 210â€‰â€“â€‰212 GHz by Two Different Radio Telescopes. Solar Physics, 2014, 289, 1227-1237.	2.5	0
68	IVIA - Ibero-American VLBI Initiative -Progress on the Brazilian side. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20201697.	0.8	0
69	Modelling magnetised medium particle transport in the guiding centre limit with GEANT4. Astronomy and Astrophysics, 2021, 654, A82.	5.1	0