

Marco A Milla

List of Publications by Year in descending order

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73
papers

783
citations

567281

15
h-index

642732

23
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75
all docs

75
docs citations

75
times ranked

669
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of MLT Momentum Fluxes Over the Andes at Four Different Latitudinal Sectors Using Multistatic Radar Configurations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	8
2	Multistatic Specular Meteor Radar Network in Peru: System Description and Initial Results. <i>Earth and Space Science</i> , 2021, 8, e2020EA001293.	2.6	25
3	High Altitude Echoes From the Equatorial Topside Ionosphere During Solar Minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028424.	2.4	3
4	Analysis of Extreme Meteorological Events in the Central Andes of Peru Using a Set of Specialized Instruments. <i>Atmosphere</i> , 2021, 12, 408.	2.3	4
5	Dataset on the first weather radar campaign over Lima, Peru. <i>Data in Brief</i> , 2021, 35, 106937.	1.0	1
6	Mapping Irregularities in the Postsunset Equatorial Ionosphere With an Expanded Network of HF Beacons. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029229.	2.4	1
7	Prompt Penetration and Substorm Effects Over Jicamarca During the September 2017 Geomagnetic Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029651.	2.4	19
8	A global 3-D electron density reconstruction model based on radio occultation data and neural networks. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2021, 221, 105702.	1.6	11
9	Comparison of GB-SAR Imaging Algorithms for a Landslide Monitoring Application. , 2020, , .		0
10	Early Morning Equatorial Ionization Anomaly From GOLD Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027487.	2.4	15
11	VIPiR and 50 MHz Radar Studies of Gravity Wave Signatures in 150â€m Echoes Observed at Jicamarca. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027535.	2.4	6
12	A Study on Meteor Head Echo Using a Probabilistic Detection Model at Jicamarca. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027459.	2.4	6
13	Height Variation of Gaps in 150â€m Echoes and Whole Atmosphere Community Climate Model Electron Densities Suggest Link to Upper Hybrid Resonance. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027204.	2.4	9
14	Multi-Instrument Rainfall-Rate Estimation in the Peruvian Central Andes. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 1811-1826.	1.3	5
15	Simultaneous ground-based and in situ Swarm observations of equatorial F-region irregularities over Jicamarca. <i>Annales Geophysicae</i> , 2020, 38, 1063-1080.	1.6	9
16	The Case for Combining a Large Lowâ€Band Very High Frequency Transmitter With Multiple Receiving Arrays for Geospace Research: A Geospace Radar. <i>Radio Science</i> , 2019, 54, 533-551.	1.6	6
17	Mesospheric Wind Estimation With the Jicamarca MST Radar Using Spectral Mainlobe Identification. <i>Radio Science</i> , 2019, 54, 1222-1239.	1.6	3
18	Radio Beacon and Radar Assessment and Forecasting ofâ€Equatorial F Region Ionospheric Stability. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9511-9524.	2.4	3

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19	MELISSA: System description and spectral features of pre- and post-midnight F region echoes. Journal of Geophysical Research: Space Physics, 2019, 124, 10482-10496.	2.4	3
20	Unmanned Aircraft System for Andean Volcano monitoring and surveillance. , 2019, , .		5
21	Aperture-Synthesis Radar Imaging With Compressive Sensing for Ionospheric Research. Radio Science, 2019, 54, 503-516.	1.6	6
22	Radar Studies of Height-Dependent Equatorial F region Vertical and Zonal Plasma Drifts. Journal of Geophysical Research: Space Physics, 2019, 124, 2058-2071.	2.4	7
23	FPGA-based GPS controlled timing system with nanosecond accuracy and leap second support. , 2019, , .		0
24	The early history of the Jicamarca Radio Observatory and the incoherent scatter technique. History of Geo- and Space Sciences, 2019, 10, 245-266.	0.4	4
25	Coherent MIMO to Improve Aperture Synthesis Radar Imaging of Field-Aligned Irregularities: First Results at Jicamarca. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2980-2990.	6.3	23
26	Multi-instrumented observations of the equatorial F-region during June solstice: large-scale wave structures and spread-F. Progress in Earth and Planetary Science, 2018, 5, .	3.0	11
27	Simultaneous 6300 Å... airglow and radar observations of ionospheric irregularities and dynamics at the geomagnetic equator. Annales Geophysicae, 2018, 36, 473-487.	1.6	12
28	On the Genesis of Postmidnight Equatorial Spread F : Results for the American/Peruvian Sector. Geophysical Research Letters, 2018, 45, 7354-7361.	4.0	20
29	Ionospheric Specification and Space Weather Forecasting With an HF Beacon Network in the Peruvian Sector. Journal of Geophysical Research: Space Physics, 2018, 123, 6851-6864.	2.4	7
30	High-altitude incoherent scatter measurements at Jicamarca. Journal of Geophysical Research: Space Physics, 2017, 122, 2292-2299.	2.4	4
31	Range-Doppler Mapping of Space-Based Targets Using the JRO 50 MHz Radar. Earth, Moon and Planets, 2017, 120, 169-188.	0.6	6
32	Radar images of the Moon at 6-meter wavelength. Icarus, 2017, 297, 179-188.	2.5	31
33	Design and implementation of a high speed interface system over Gigabit Ethernet based on FPGA for use on radar acquisition systems. , 2017, , .		3
34	Design and implementation of a mechanical system for a ground based synthetic aperture radar with automatic antenna pointing: Preliminary results. , 2017, , .		0
35	Simultaneous observations of structure function parameter of refractive index using a high-resolution radar and the DataHawk small airborne measurement system. Annales Geophysicae, 2016, 34, 767-780.	1.6	10
36	The Online System for Lidar Data Handling and Real Time Monitoring of Lidar Operations at ALO-USU. EPJ Web of Conferences, 2016, 119, 25015.	0.3	0

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37	A multistatic HF beacon network for ionospheric specification in the Peruvian sector. Radio Science, 2016, 51, 392-401.	1.6	13
38	Implementation of a ground based synthetic aperture radar (GB-SAR) for landslide monitoring: system description and preliminary results. , 2016, , .		4
39	Coherent and incoherent scatter radar study of the climatology and day-to-day variability of mean F_2 region vertical drifts and equatorial spread F_2 . Journal of Geophysical Research: Space Physics, 2016, 121, 1466-1482.	2.4	40
40	New opportunities offered by Cubesats for space research in Latin America: The SUCHAI project case. Advances in Space Research, 2016, 58, 2134-2147.	2.6	15
41	Data-driven numerical simulations of equatorial spread F in the Peruvian sector 3: Solstice. Journal of Geophysical Research: Space Physics, 2015, 120, 10,809.	2.4	15
42	AMISR-14: Observations of equatorial spread F_2 . Geophysical Research Letters, 2015, 42, 5100-5108.	4.0	11
43	Concurrent observations at the magnetic equator of small-scale irregularities and large-scale depletions associated with equatorial spread F_2 . Journal of Geophysical Research: Space Physics, 2015, 120, 10,883.	2.4	7
44	Topside equatorial ionospheric density, temperature, and composition under equinox, low solar flux conditions. Journal of Geophysical Research: Space Physics, 2015, 120, 3899-3912.	2.4	16
45	Daytime ionospheric equatorial vertical drifts during the 2008-2009 extreme solar minimum. Journal of Geophysical Research: Space Physics, 2015, 120, 1452-1459.	2.4	10
46	The August 2011 URSI World Day campaign: Initial results. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 134, 47-55.	1.6	3
47	Data-driven numerical simulations and forecasts of equatorial spread F in the peruvian sector. , 2014, , .		0
48	Updating the full-profile incoherent scatter analysis at Jicamarca. , 2014, , .		0
49	Broad plasma depletions detected in the bottomside of the equatorial F_2 region: Simultaneous ROCSAT-1 and JULIA observations. Journal of Geophysical Research: Space Physics, 2014, 119, 5978-5984.	2.4	2
50	Data-driven numerical simulations of equatorial spread F_2 in the Peruvian sector. Journal of Geophysical Research: Space Physics, 2014, 119, 3815-3827.	2.4	22
51	The zonal motion of equatorial plasma bubbles relative to the background ionosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 5943-5950.	2.4	10
52	Data-driven numerical simulations of equatorial spread F_2 in the Peruvian sector: 2. Autumnal equinox. Journal of Geophysical Research: Space Physics, 2014, 119, 6981-6993.	2.4	9
53	A multi-beam incoherent scatter radar technique for the estimation of ionospheric electron density and T_e profiles at Jicamarca. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 105-106, 214-229.	1.6	11
54	On the characterization of radar receivers for meteor-head echoes studies. Radio Science, 2013, 48, 33-41.	1.6	2

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55	Radar imaging with compressed sensing. Radio Science, 2013, 48, 582-588.	1.6	22
56	Equatorial 150 km echoes and daytime F region vertical plasma drifts in the Brazilian longitude sector. Annales Geophysicae, 2013, 31, 1867-1876.	1.6	11
57	The Jicamarca phased-array radar. , 2013, , .		1
58	Incoherent Scatter Radar - Spectral Signal Model and Ionospheric Applications. , 2012, , .		3
59	Incoherent Scatter Spectral Theoriesâ€™Part I: A General Framework and Results for Small Magnetic Aspect Angles. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 315-328.	6.3	26
60	Magnetic aspect sensitivity of 3-m<i>F</i>-region field-aligned plasma density irregularities over Jicamarca. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	3
61	The effects of Coulomb collisions on H⁺ and He⁺ plasmas for topside incoherent scatter radar applications at Jicamarca. , 2011, , .		0
62	Incoherent Scatter Spectral Theoriesâ€™Part II: Modeling the Spectrum for Modes Propagating Perpendicular to $\{B\}$. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 329-345.	6.3	25
63	VHF voice and data communications via Equatorial Electrojet scattering: Channel characterization and application of a frequency diversity technique using Software Defined Radio technology. , 2011, , .		1
64	Naturally enhanced ion-line spectra around the equatorial 150-km region. Annales Geophysicae, 2009, 27, 933-942.	1.6	16
65	Particle dynamics description of α -BCK collisionsâ€™as a Poisson process. Journal of Geophysical Research, 2009, 114, .	3.3	5
66	Equatorial spread-F initiation: Post-sunset vortex, thermospheric winds, gravity waves. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 2416-2427.	1.6	124
67	Rocket and incoherent scatter radar common-volume electron measurements of the equatorial lower ionosphere. Geophysical Research Letters, 2006, 33, .	4.0	19
68	ALTAIR incoherent scatter observations of the equatorial daytime ionosphere. Geophysical Research Letters, 2006, 33, .	4.0	9
69	Incoherent scatter spectrum theory for modes propagating perpendicular to the geomagnetic field. Journal of Geophysical Research, 2006, 111, .	3.3	14
70	F-region electron density and $\frac{T}{T}$; $\frac{T}{T}$; $\frac{T}{T}$; measurements using incoherent scatter power data collected at ALTAIR. Annales Geophysicae, 2006, 24, 1333-1342.	1.6	16
71	Improved spectral observations of equatorial spread F echoes at Jicamarca using aperiodic transmitter coding. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1543-1548.	1.6	6
72	Fregion plasma density estimation at Jicamarca using the complex cross-correlation of orthogonal polarized backscatter fields. Radio Science, 2004, 39, n/a-n/a.	1.6	4

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73	Spacial Gradient Based TEC Estimation Algorithm with Code Noise Multipath Correction Evaluation Using Simultaneous Incoherent Scatter Radar Measurements. , 0 , , .		2