

# Santiago Vargas Domínguez

## List of Publications by Year in descending order

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38  
papers

1,051  
citations

430874

18  
h-index

414414

32  
g-index

38  
all docs

38  
docs citations

38  
times ranked

779  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Imaging Magnetograph eXperiment (IMaX) for the Sunrise Balloon-Borne Solar Observatory. Solar Physics, 2011, 268, 57-102.	2.5	229
2	MULTIWAVELENGTH OBSERVATIONS OF SMALL-SCALE RECONNECTION EVENTS TRIGGERED BY MAGNETIC FLUX EMERGENCE IN THE SOLAR ATMOSPHERE. Astrophysical Journal, 2010, 724, 1083-1098.	4.5	90
3	Twisting solar coronal jet launched at the boundary of an active region. Astronomy and Astrophysics, 2013, 559, A1.	5.1	85
4	Recurrent coronal jets induced by repetitively accumulated electric currents. Astronomy and Astrophysics, 2013, 555, A19.	5.1	65
5	Nonlinear Force-Free Extrapolation of Emerging Flux with a Global Twist and Serpentine Fine Structures. Solar Physics, 2012, 278, 73-97.	2.5	61
6	Relationships between magnetic foot points and G-band bright structures. Astronomy and Astrophysics, 2007, 472, 911-918.	5.1	57
7	Evidence of small-scale magnetic concentrations dragged by vortex motion of solar photospheric plasma. Astronomy and Astrophysics, 2010, 513, L6.	5.1	40
8	PROPERTIES OF CHROMOSPHERIC EVAPORATION AND PLASMA DYNAMICS OF A SOLAR FLARE FROM IRIS OBSERVATIONS. Astrophysical Journal, 2015, 805, 167.	4.5	39
9	Moat Flow in the Vicinity of Sunspots for Various Penumbra Configurations. Astrophysical Journal, 2008, 679, 900-909.	4.5	32
10	Granular-Scale Elementary Flux Emergence Episodes in a Solar Active Region. Solar Physics, 2012, 278, 99-120.	2.5	29
11	PARALLEL EVOLUTION OF QUASI-SEPARATRIX LAYERS AND ACTIVE REGION UPFLOWS. Astrophysical Journal, 2015, 809, 73.	4.5	27
12	On the Moat-Penumbra Relation. Astrophysical Journal, 2007, 660, L165-L168.	4.5	25
13	Characterization of horizontal flows around solar pores from high-resolution time series of images. Astronomy and Astrophysics, 2010, 516, A91.	5.1	25
14	LEMUR: Large European module for solar Ultraviolet Research. Experimental Astronomy, 2012, 34, 273-309.	3.7	25
15	On Signatures of Twisted Magnetic Flux Tube Emergence. Solar Physics, 2012, 278, 33-45.	2.5	22
16	Magnetic field emergence in mesogranular-sized exploding granules observed with sunrise/IMaX data. Astronomy and Astrophysics, 2012, 537, A21.	5.1	22
17	MULTI-WAVELENGTH HIGH-RESOLUTION OBSERVATIONS OF A SMALL-SCALE EMERGING MAGNETIC FLUX EVENT AND THE CHROMOSPHERIC AND CORONAL RESPONSE. Astrophysical Journal, 2014, 794, 140.	4.5	20
18	The grand aurorae borealis seen in Colombia in 1859. Advances in Space Research, 2016, 57, 257-267.	2.6	19

#	ARTICLE	IF	CITATIONS
19	Three-dimensional magnetic reconnection in particle-in-cell simulations of anisotropic plasma turbulence. <i>Journal of Plasma Physics</i> , 2021, 87, .	2.1	19
20	The active region source of a type III radio storm observed by Parker Solar Probe during encounter 2. <i>Astronomy and Astrophysics</i> , 2021, 650, A7.	5.1	17
21	RELATIONSHIP BETWEEN CHROMOSPHERIC EVAPORATION AND MAGNETIC FIELD TOPOLOGY IN ANÂM-CLASS SOLAR FLARE. <i>Astrophysical Journal</i> , 2016, 828, 4.	4.5	16
22	The Solar Activity Monitor Network “SAMNet. <i>Journal of Space Weather and Space Climate</i> , 2022, 12, 2.	3.3	16
23	Flare Energy Release in the Lower Solar Atmosphere near the Magnetic Field Polarity Inversion Line. <i>Astrophysical Journal</i> , 2017, 840, 84.	4.5	15
24	Evolution of Small-Scale Magnetic Elements in the Vicinity of Granular-Sized Swirl Convective Motions. <i>Solar Physics</i> , 2015, 290, 301-319.	2.5	14
25	Spatial distribution and statistical properties of small-scale convective vortex-like motions in a quiet-Sun region. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, , no-no.	4.4	12
26	MAGNETIC TOPOLOGY OF A NAKED SUNSPOT: IS IT REALLY NAKED?. <i>Astrophysical Journal Letters</i> , 2012, 746, L13.	8.3	12
27	Photospheric plasma and magnetic field dynamics during the formation of solar AR 11190. <i>Astronomy and Astrophysics</i> , 2019, 622, A168.	5.1	7
28	Retrieval of solar magnetic fields from high-spatial resolution filtergraph data: the Imaging Magnetograph eXperiment (IMaX). <i>Astronomy and Astrophysics</i> , 2010, 522, A101.	5.1	4
29	THE INFLUENTIAL EFFECT OF BLENDING, BUMP, CHANGING PERIOD, AND ECLIPSING CEPHEIDS ON THE LEAVITT LAW. <i>Astrophysical Journal</i> , 2016, 824, 74.	4.5	2
30	Tuning up Fuzzy Inference Systems by using optimization algorithms for the classification of solar flares. <i>Tecciencia</i> , 2017, 12, 35-46.	0.5	2
31	The best of both worlds: Using automatic detection and limited human supervision to create a homogenous magnetic catalog spanning four solar cycles. , 2016, , .		1
32	Latin American Network for Scientific Culture (RedLCC): A Regional Science Communication Initiative. <i>Frontiers in Research Metrics and Analytics</i> , 2021, 6, 654022.	1.9	1
33	Evolution of small-scale magnetic elements in regions with plasma vortices in the solar photosphere. <i>Tecciencia</i> , 2016, 11, 1-4.	0.5	1
34	Spectroscopic UV observations of M1.0 class solar flare from IRIS satellite. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 64-67.	0.0	0
35	IAU volume 12 issue S327 Cover and Front matter. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, f1-f16.	0.0	0
36	A Python-based interface to examine motions in time series of solar images. <i>Proceedings of the International Astronomical Union</i> , 2016, 12, 25-27.	0.0	0

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37	Initiation and chromospheric effects of a M1.0 class solar flare from high-resolution multi-wavelength observations. Proceedings of the International Astronomical Union, 2016, 12, 103-108.	0.0	0
38	Análisis de polaridades magnéticas en regiones activas para la predicción de fulguraciones solares. Revista De La Academia Colombiana De Ciencias Exactas, Físicas Y Naturales, 2020, 44, 984-995.	0.2	0