

Bibliography from ADS file: vargas-dominguez.bib  
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- Agudelo Rueda, J. A., Verscharen, D., Wicks, R. T., et al., “Energy transport during 3D small-scale reconnection driven by anisotropic plasma turbulence”, 2022arXiv220802350A ADS
- Moreno Cárdenas, F., Vargas Domínguez, S., & Cuellar, J., “The pioneering scientific endeavor of the first Colombian modern astronomer José María González Benito (1843-1903)”, 2022arXiv220408097M ADS
- Berrios Saavedra, G., Utz, D., Vargas Domínguez, S., et al., “Observational evidence for two-component distributions describing solar magnetic bright points”, 2022A&A...657A...79B ADS
- Agudelo Rueda, J. A., Verscharen, D., Wicks, R., et al., “3D Small-scale Turbulent Reconnection: Energy Transport and Transfer”, 2021AGUFM54B...07A ADS
- Vargas Domínguez, S., Berrios Saavedra, G., Utz, D., et al., “Evidence For Two-component Distributions Describing Magnetic Bright Points In The Solar Photosphere”, 2021AAS...23811310V ADS
- Harra, L., Brooks, D. H., Bale, S. D., et al., “The active region source of a type III radio storm observed by Parker Solar Probe during encounter 2”, 2021A&A...650A...7H ADS
- Agudelo Rueda, J. A., Verscharen, D., Wicks, R. T., et al., “Three-dimensional magnetic reconnection in particle-in-cell simulations of anisotropic plasma turbulence”, 2021JPLPh...87c9028A ADS
- Góez Therán, C. & Vargas Domínguez, S., “Comparative Analysis of Sky Quality and Meteorological Variables During the Total Lunar Eclipse on 14-15 April 2014 and their Effect on Qualitative Measurements of the Bortle Scale”, 2021RMxAA...57...57G ADS
- Granados Hernández, N. & Vargas Domínguez, S., “Analysis of magnetic polarities in active regions for the prediction of solar flares”, 2020arXiv201204050G ADS
- Granados, N. & Vargas Domínguez, S., “Analysis of magnetic polarities in active regions for the prediction of solar flares”, 2020RACCE...44...984G ADS
- Agudelo Rueda, J. A., Verscharen, D., Wicks, R. T., et al., “Spontaneous Reconnection in Three-Dimensional Particle-In-Cell Simulations of Collisionless Plasma Turbulence”, 2020AGUFM5H055...02A ADS
- Harra, L., Brooks, D., Barczynski, K., et al., “Dynamics and Flows in Active Region NOAA12737 that can contribute to Type III Bursts observed by Parker Solar Probe during Encounter 2.”, 2020AGUFM5H0240001H ADS
- Alfonso Soler, B., Vargas Domínguez, S., & Martínez Galarza, J. R., “Automatic Detection of Light Bridges in Solar Active Regions Based on Deep Learning Techniques”, 2020SPD...5120201A ADS
- Waller, W. H., Canas, L., Agata, H., et al., “FM14 Session 2: Communicating Astronomy in our Changing World”, 2020IAUGA...30...528W ADS
- Cárdenas Avendaño, A., Vargas Domínguez, S., Moreno Cárdenas, F., & Calvo Mozo, B., “The Educational and Influential Power of the Sun”, 2019CAPJ...25...28C ADS
- Campos Roza, J. I., Utz, D., Vargas Domínguez, S., Veronig, A., & Van Doorselaere, T., “Photospheric plasma and magnetic field dynamics during the formation of solar AR 11190”, 2019A&A...622A.168C ADS
- Campos Roza, J. I., Utz, D., Veronig, A., & Vargas Domínguez, S., “Modelling the solar photospheric plasma and magnetic field dynamics in the quiet Sun and comparison of these results with the flow fields in an evolving active region”, 2018simi.conf...37C ADS
- Campos Roza, J. I., Utz, D., Veronig, A., & Vargas Domínguez, S., “Modelling the solar photospheric plasma and magnetic field dynamics during the emergence of AR 11190”, 2018nspm.confE...1C ADS
- Quintero Ortega, V., Vargas Domínguez, S., & Campos Roza, J. I., “Analysis of large-scale photospheric dynamics during the solar cycle 24”, 2018ScTec...23...288Q ADS
- Sadykov, V. M., Kosovichev, A. G., Sharykin, I. N., Zimovets, I. V., & Vargas Domínguez, S., “Initiation and chromospheric effects of a M1.0 class solar flare from high-resolution multi-wavelength observations”, 2017IAUS...327...103S ADS
- Campos-Roza, J. I. & Vargas Domínguez, S., “A Python-based interface to examine motions in time series of solar images”, 2017IAUS...327...25C ADS
- “Fine Structure and Dynamics of the Solar Atmosphere”, 2017IAUS...327...V ADS
- Vargas-Acosta, J. P., Muñoz-Jaramillo, A., Vargas Domínguez, S., et al., “Update on a Solar Magnetic Catalog Spanning Four Solar Cycles”, 2017SPD...4811202V ADS
- Vargas-Acosta, J. P., Muñoz-Jaramillo, A., Vargas Domínguez, S., & Svalgaard, L., “Polar Facular Observations by the Zurich Observatory: A Window to the Evolution of the Polar Fields during the Weakest Cycles of the Last 200 Years”, 2017SPD...48.0501V ADS
- Muñoz, J. R., García-Varela, A., Sabogal, B. E., Vargas Domínguez, S., & Martínez, J., “The effect of Cepheids exhibiting blending, bumps, eclipses and period changes on the Period-Luminosity relation”, 2017RMxAC...49...165M ADS
- Moreno Cárdenas, F., Cristancho Sánchez, S., & Vargas Domínguez, S., “The Carrington Event and observation of aurorae at very low latitudes”, 2017RMxAC...49...150M ADS
- Angélica Ramos Medina, L., Bustos Pinzón, A. F., Melgarejo, M. A., & Vargas Domínguez, S., “Tuning up Fuzzy Inference Systems by using optimization algorithms for the classification of solar flares”, 2017arXiv170608163A ADS
- Sharykin, I. N., Sadykov, V. M., Kosovichev, A. G., Vargas Domínguez, S., & Zimovets, I. V., “Flare Energy Release in the Lower Solar Atmosphere near the Magnetic Field Polarity Inversion Line”, 2017ApJ...840...84S ADS
- Palacios, J., Vargas Domínguez, S., Balmaceda, L. A., Cabello, I., & Domingo, V., “Multi-wavelength observations of vortex-like flows in the photosphere using ground-based and space-borne telescopes”, 2017arXiv170400660P ADS
- Muñoz-Jaramillo, A., Werginz, Z., Vargas-Acosta, J. P., et al., “The best of both worlds: Using automatic detection and limited human supervision to create a homogenous magnetic catalog spanning four solar cycles”, 2016bida.conf.3194M ADS
- Munoz-Jaramillo, A., Werginz, Z. A., Vargas-Acosta, J. P., et al., “Development of a Homogenous Database of Bipolar Active Regions Spanning Four Cycles”, 2016AGUFM5H11A2219M ADS
- Sadykov, V. M., Kosovichev, A. G., Sharykin, I. N., Zimovets, I. V., & Vargas Domínguez, S., “Relationship Between Chromospheric Evaporation and Magnetic Field Topology in an M-Class Solar Flare”, 2016ApJ...828...4S ADS
- García-Varela, A., Muñoz, J. R., Sabogal, B. E., Vargas Domínguez, S., & Martínez, J., “VizieR Online Data Catalog: OGLE LC classification of MC Cepheids (García-Varela+, 2016)”, 2016yCat...18240074G ADS
- García-Varela, A., Muñoz, J. R., Sabogal, B. E., Vargas Domínguez, S., & Martínez, J., “The Influential Effect of Blending, Bump, Changing Period, and Eclipsing Cepheids on the Leavitt Law”, 2016ApJ...824...74G ADS
- Werginz, Z., Muñoz-Jaramillo, A., DeLuca, M. D., et al., “Developing a Solar Magnetic Catalog Spanning Four Cycles”, 2016SPD...4740502W ADS
- Sharykin, I. N., Sadykov, V. M., Kosovichev, A. G., Vargas Domínguez, S., & Zimovets, I. V., “Observational Investigation of Energy Release in the Lower Solar Atmosphere of a Solar Flare”, 2016arXiv160405380S ADS
- Palacios, J., Vargas Domínguez, S., Balmaceda, L. A., Cabello, I., & Domingo, V., “Multi-wavelength Observations of Photospheric Vortex Flows in the Photosphere Using Ground-based and Space-borne Telescopes”, 2016ASPC...504...139P ADS
- Sadykov, V. M., Kosovichev, A. G., Sharykin, I. N., & Vargas Domínguez, S., “Spectroscopic UV observations of M1.0 class solar flare from IRIS satellite”, 2016IAUS...320...64S ADS
- Moreno Cárdenas, F., Cristancho Sánchez, S., & Vargas Domínguez, S., “The grand aurorae borealis seen in Colombia in 1859”, 2016AdSpR...57...257M ADS
- Campos Roza, J. I. & Vargas Domínguez, S., “Python Implementation for Local Correlation Tracking Analysis of Solar Data”, 2015AGUFM5H43B2443C ADS
- Munoz-Jaramillo, A., Werginz, Z. A., DeLuca, M. D., et al., “Contextualizing Solar Cycle 24: Report on the Development of a Homogenous Database of Bipolar Active Regions Spanning Four Cycles”, 2015AGUFM5H33D...06M ADS
- Vargas Domínguez, S., Buitrago Casas, J. C., & Molina, M., “Evolution of solar magnetic fields in a seismically active region with recurrent flaring activity”, 2015AGUFM5H13A2427V ADS
- Vargas Domínguez, S., Sadykov, V., Kosovichev, A., et al., “NST and IRIS multi-wavelength observations of an M1.0 class solar flare”, 2015IAUGA...2257574V ADS
- Mandrini, C. H., Baker, D., Démoulin, P., et al., “Parallel Evolution of Quasi-separatrix Layers and Active Region Upflows”, 2015ApJ...809...73M ADS
- Sadykov, V. M., Vargas Domínguez, S., Kosovichev, A. G., et al., “Properties of Chromospheric Evaporation and Plasma Dynamics of a Solar Flare from Iris”, 2015ApJ...805...167S ADS
- Vargas Domínguez, S., Palacios, J., Balmaceda, L., Cabello, I., & Domingo, V., “Evolution of Small-Scale Magnetic Elements in the Vicinity of Granular-Sized Swirl Convective Motions”, 2015SoPh...290...301V ADS
- Vargas Domínguez, S. & Kosovichev, A. G., “Swirling motions, fast plasma flows and small-scale chromospheric eruptions in a sunspot light-bridge”, 2014AGUFM5H41C4159V ADS
- Vargas Domínguez, S., “High-resolution Observations with New Solar Telescope”, 2014AGUFM5H31C...01V ADS

- Guo, Y., Démoulin, P., Schmieder, B., et al., “Recurrent Coronal Jets Induced by Magnetic Emergence in the Solar Atmosphere”, 2014RMxAC...44...45G ADS
- Vargas Domínguez, S., Kosovichev, A., & Yurchyshyn, V., “Multi-wavelength High-resolution Observations of a Small-scale Emerging Magnetic Flux Event and the Chromospheric and Coronal Response”, 2014ApJ...794...140V ADS
- Vargas Domínguez, S. & Kosovichev, A. G., “Transient Small-Scale Magnetic Flux Emergence and Atmospheric Response Observed with New Solar Telescope and SDO”, 2014AAS...22412345V ADS
- Campos Rozo, J. I. & Vargas Dominguez, S., “SunPy: Python for Solar Physics. An implementation for local correlation tracking”, 2014CEAB...38...67C ADS
- Vargas Dominguez, S., Kosovichev, A. G., & Yurchyshyn, V., “Emergence of a small-scale magnetic flux tube and the response of the solar atmosphere”, 2014CEAB...38...25V ADS
- Schmieder, B., Guo, Y., Moreno-Insertis, F., et al., “Twisting solar coronal jet launched at the boundary of an active region”, 2013A&A...559A...1S ADS
- Guo, Y., Démoulin, P., Schmieder, B., et al., “Recurrent coronal jets induced by repetitively accumulated electric currents”, 2013A&A...555A...19G ADS
- Vargas Dominguez, S. & van Driel-Gesztelyi, L., “On the response of the solar atmosphere to small-scale magnetic flux emergence”, 2013EGUGA...15...925V ADS
- Vargas Domínguez, S., van Driel-Gesztelyi, L., & Bellot Rubio, L. R., “Granular-Scale Elementary Flux Emergence Episodes in a Solar Active Region”, 2012SoPh...278...99V ADS
- Valori, G., Green, L. M., Démoulin, P., et al., “Nonlinear Force-Free Extrapolation of Emerging Flux with a Global Twist and Serpentine Fine Structures”, 2012SoPh...278...73V ADS
- Vargas Domínguez, S., MacTaggart, D., Green, L., van Driel-Gesztelyi, L., & Hood, A. W., “On Signatures of Twisted Magnetic Flux Tube Emergence”, 2012SoPh...278...33V ADS
- Sainz Dalda, A., Vargas Domínguez, S., & Tarbell, T. D., “Magnetic Topology of a Naked Sunspot: Is It Really Naked?”, 2012ApJ...746L...13S ADS
- Palacios, J., Blanco Rodríguez, J., Vargas Domínguez, S., et al., “Magnetic field emergence in mesogranular-sized exploding granules observed with sunrise/IMaX data”, 2012A&A...537A...21P ADS
- Vargas Domínguez, S., Palacios, J., Balmaceda, L., Cabello, I., & Domingo, V., “Spatial distribution and statistical properties of small-scale convective vortex-like motions in a quiet-Sun region”, 2011MNRAS...416...148V ADS
- Sainz Dalda, A., Tarbell, T., Title, A., Vargas Dominguez, S., & Bellot Rubio, L. R., “Spectropolarimetric Study of Sea-serpent Penumbra Filaments and a Naked Sunspot”, 2011SPD...42...0303S ADS
- Martínez Pillet, V., del Toro Iniesta, J. C., Álvarez-Herrero, A., et al., “The Imaging Magnetograph eXperiment (IMaX) for the Sunrise Balloon-Borne Solar Observatory”, 2011SoPh...268...57M ADS
- Guglielmino, S. L., Bellot Rubio, L. R., Zuccarello, F., et al., “Multiwavelength Observations of Small-scale Reconnection Events Triggered by Magnetic Flux Emergence in the Solar Atmosphere”, 2010ApJ...724...1083G ADS
- Orozco Suárez, D., Bellot Rubio, L. R., Martínez Pillet, V., et al., “Retrieval of solar magnetic fields from high-spatial resolution filtergraph data: the Imaging Magnetograph eXperiment (IMaX)”, 2010A&A...522A...1010 ADS
- Vargas Domínguez, S., de Vicente, A., Bonet, J. A., & Martínez Pillet, V., “Characterization of horizontal flows around solar pores from high-resolution time series of images”, 2010A&A...516A...91V ADS
- Balmaceda, L., Vargas Domínguez, S., Palacios, J., Cabello, I., & Domingo, V., “Evidence of small-scale magnetic concentrations dragged by vortex motion of solar photospheric plasma”, 2010A&A...513L...6B ADS
- Guglielmino, S. L., Bellot Rubio, L. R., Zuccarello, F., Romano, P., & Vargas Domínguez, S., “High-resolution observations of interactions during the emergence of magnetic flux from the photosphere to the corona”, 2010MSAIS...14...184G ADS
- Vargas Dominguez, S.: 2009, “Study of horizontal flows in solar active regions based on high-resolution image reconstruction techniques”, Ph.D. thesis, -2009PhDT.....78V ADS
- Vargas Domínguez, S.: 2009, “Estudio de flujos horizontales en regiones solares activas basado en técnicas de alta resolución para reconstrucción de imágenesEstudio de flujos horizontales en regiones solares activas basado en técnicas de alta resolución para reconstrucción de imágenesStudy of horizontal flows in solar active regions based on high-resolution techniques for image reconstruction”, Ph.D. thesis, University of La Laguna, Spain 2009PhDT.....113V ADS
- Vargas Domínguez, S., Rouppe van der Voort, L., Bonet, J. A., et al., “Moat Flow in the Vicinity of Sunspots for Various Penumbra Configurations”, 2008ApJ...679...900V ADS
- Ishikawa, R., Tsuneta, S., Kitakoshi, Y., et al., “Relationships between magnetic foot points and G-band bright structures”, 2007A&A...472...911I ADS
- Vargas Domínguez, S., Bonet, J. A., Martínez Pillet, V., et al., “On the Moat-Penumbra Relation”, 2007ApJ...660L...165V ADS
- Vargas Domínguez, S., Bonet, J. A., Martínez Pillet, V., & Katsukawa, Y., “Evidence of an association between the presence of penumbrae and strong radial outflows in sunspots”, 2006astro.ph.11500V ADS