

Bibliography from ADS file: gosain.bib
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- Bertello, L., Arge, N., De Wijn, A. G., et al., “*Multi-height Measurements Of The Solar Vector Magnetic Field: A White Paper Submitted To The Decadal Survey For Solar And Space Physics (Heliophysics) 2024-2033*”, 2022arXiv220904453B [ADS](#)
- Gosain, S., Harvey, J., Martínez-Pillet, V., Woods, T., & Hill, F., “*A Compact Full-disk Solar Magnetograph based on miniaturization of GONG instrument*”, 2022arXiv220707728G [ADS](#)
- Gosain, S. & Uitenbroek, H., “*Estimation of projection effects in the solar polar magnetic flux measurements from an ecliptic view*”, 2021AGUFMSH34D..04G [ADS](#)
- Gopalswamy, N., Kucera, T., Leake, J., et al., “*The Multiview Observatory for Solar Terrestrial Science (MOST)*”, 2021AGUFMSH12A..07G [ADS](#)
- Hassler, D., Newmark, J. S., Gibson, S. E., et al., “*The Solaris Solar Polar Mission: Exploring one of the last Unexplored Regions of the Solar System*”, 2020AGUFMSH0110003H [ADS](#)
- Hassler, D. M., Newmark, J., Gibson, S., et al., “*The Solaris Solar Polar Mission*”, 2020EGUGA..2217703H [ADS](#)
- Penn, M. J., Baer, R., Walter, D., et al., “*Acceleration of Coronal Mass Ejection Plasma in the Low Corona as Measured by the Citizen CATE Experiment*”, 2020PASP..132a4201P [ADS](#)
- Komm, R. & Gosain, S., “*Kinetic Helicity and Lifetime of Activity Complexes During Solar Cycle 24*”, 2019ApJ...887..192K [ADS](#)
- Hill, F., Hammel, H., Martínez-Pillet, V., et al., “*ngGONG: The Next Generation GONG - A New Solar Synoptic Observational Network*”, 2019BAAS...51g..74H [ADS](#)
- Gosain, S. & Brandenburg, A., “*Spectral Magnetic Helicity of Solar Active Regions between 2006 and 2017*”, 2019ApJ...882...80G [ADS](#)
- Beck, C., Gosain, S., & Kiessner, C., “*Fast Inversion of Solar Ca II Spectra in Non-local Thermodynamic Equilibrium*”, 2019ApJ...878...60B [ADS](#)
- Komm, R. W. & Gosain, S., “*Long-Lived Activity Complexes, their Kinetic Helicity, Lifetime, and Flare Activity*”, 2019shin.confE..53K [ADS](#)
- Martínez Pillet, V., Hill, F., Hammel, H. B., et al., “*Synoptic Studies of the Sun as a Key to Understanding Stellar Atmospheres*”, 2019BAAS...51c.110M [ADS](#)
- Komm, R. & Gosain, S., “*Kinetic and Current Helicity of Long-Lived Activity Complexes During Solar Cycle 24*”, 2018csc..confE..6K [ADS](#)
- Gosain, S., Roth, M., Hill, F., et al., “*Design of a next generation synoptic solar observing network: solar physics research integrated network group (SPRING)*”, 2018SPIE10702E..4HG [ADS](#)
- Beck, C., Rezaei, R., Choudhary, D. P., et al., “*High-resolution Observations of Hα Spectra with a Subtractive Double Pass*”, 2018SoPh..293...36B [ADS](#)
- Gosain, S. & SOLIS Team, “*Synoptic Magnetic Fields Measurements of the Solar Chromosphere from SOLIS/VSM at NSO*”, 2018IAUS..340...91G [ADS](#)
- Lagg, A., Lites, B., Harvey, J., Gosain, S., & Centeno, R., “*Measurements of Photospheric and Chromospheric Magnetic Fields*”, in A. Balogh, E. Cliver, G. Petrie, S. Solanki, M. Thompson, and R. von Steiger (Eds.), *Solar Magnetic Fields. Series: Space Sciences Series of ISSI*, Vol. 57, 37–76 2018smf..book...37L [ADS](#)
- Burtseva, O., Gosain, S., & Pevtsov, A. A., “*Search for a Signature of Twist-removal in the Magnetic Field of Sunspots in Relation with Major Flares*”, 2017ApJ...849..103B [ADS](#)
- Lagg, A., Lites, B., Harvey, J., Gosain, S., & Centeno, R., “*Measurements of Photospheric and Chromospheric Magnetic Fields*”, 2017SSRv..210...37L [ADS](#)
- Gosain, S., “*Structure of chromospheric magnetic field in solar active regions: results from SOLIS/VSM Ca II 854.2 nm observations*”, 2017psio.confE..50G [ADS](#)
- Elsworth, Y., Broomhall, A.-M., Gosain, S., et al., “*The Importance of Long-Term Synoptic Observations and Data Sets for Solar Physics and Helioseismology*”, in M. J. Thompson, A. S. Brun, J. L. Culhane, L. Gizon, M. Roth, and T. Sekii (Eds.), *Helioseismology and Dynamics of the Solar Interior. Series: Space Sciences Series of ISSI*, Vol. 48, 143–172 2017hdssi.book..143E [ADS](#)
- Gosain, S., “*Current trends in ground based solar magnetometry*”, 2016AsJPh..25..221G [ADS](#)
- Harvey, J. W., Bertello, L., Branston, D., et al., “*Ca II 854.2 nm Spectromagneticograms: A Powerful Chromospheric Diagnostic*”, 2016SPD....4710106H [ADS](#)
- Bertello, L., Britanik, J., Callahan, L., et al., “*Current Status of the SOLIS Program: Improved and New Data Products*”, 2016SPD....47.1002B [ADS](#)
- Bertello, L., Hughes, A., Gosain, S., et al., “*HMI Vector and Uncertainty Carrington Synoptic Maps*”, 2016SPD....47.1001B [ADS](#)
- Burtseva, O., Gosain, S., & Pevtsov, A. A., “*Flare-related changes in pseudo-vector magnetic field derived from line-of-sight magnetograms*”, 2016SPD....47.0637B [ADS](#)
- Gosain, S., Harvey, J. W., Harker, B., et al., “*Full-Disk Chromospheric Vector Magnetograms with Ca II 854.2 nm line: Some Promising Applications*”, 2016SPD....47.0103G [ADS](#)
- Gosain, S., Filippov, B., Ajor Maurya, R., & Chandra, R., “*Interrupted Eruption of Large Quiescent Filament Associated with a Halo CME*”, 2016ApJ...821...85G [ADS](#)
- Elsworth, Y., Broomhall, A.-M., Gosain, S., et al., “*The Importance of Long-Term Synoptic Observations and Data Sets for Solar Physics and Helioseismology*”, 2015SSRv..196..137E [ADS](#)
- Pevtsov, A. A., Burtseva, O., & Gosain, S., “*Cylindrical Symmetry of Sunspots as a Proxy for Flare-Related Changes in Pseudo-Vector Magnetic Field Derived from Line-of-Sight Magnetograms*”, 2015AGUFMSH43B2450P [ADS](#)
- Gosain, S. & Harvey, J. W., “*Design of a Full Stokes Polarimeter for Chromospheric Measurements with SOLIS/VSM*”, 2015IAUS..305..186G [ADS](#)
- Chowdhury, P., Choudhary, D. P., Gosain, S., & Moon, Y. J., “*Short-term periodicities in interplanetary, geomagnetic and solar phenomena during solar cycle 24*”, 2015Ap&SS..356....7C [ADS](#)
- Komm, R. & Gosain, S., “*Current and Kinetic Helicity of Long-lived Activity Complexes*”, 2015ApJ...798...20K [ADS](#)
- Komm, R. & Gosain, S., “*Current and Kinetic Helicity of Long-Lived Activity Complexes*”, 2014AGUFMSH41B4137K [ADS](#)
- Tadesse, T., Pevtsov, A. A., Wiegelmann, T., MacNeice, P. J., & Gosain, S., “*Global Solar Free Magnetic Energy and Electric Current Density Distribution of Carrington Rotation 2124*”, 2014SoPh..289..4031T [ADS](#)
- Gosain, S., Démoulin, P., & López Fuentes, M., “*Distribution of Electric Currents in Sunspots from Photosphere to Corona*”, 2014ApJ...793...15G [ADS](#)
- Komm, R., Gosain, S., & Pevtsov, A. A., “*Hemispheric Distribution of Subsurface Kinetic Helicity and Its Variation with Magnetic Activity*”, 2014SoPh..289.2399K [ADS](#)
- Komm, R. & Gosain, S., “*Current and Kinetic Helicity of Long-Lived Activity Complexes*”, 2014shin.confE..60K [ADS](#)
- Komm, R., Gosain, S., & Pevtsov, A., “*Active Regions with Superpenumbral Whirls and Their Subsurface Kinetic Helicity*”, 2014SoPh..289..475K [ADS](#)
- Tadesse, T., Wiegelmann, T., Gosain, S., MacNeice, P., & Pevtsov, A. A., “*First use of synoptic vector magnetograms for global nonlinear, force-free coronal magnetic field models*”, 2014A&A..562A.105T [ADS](#)
- Choudhary, D. P., Gosain, S., Gopalswamy, N., et al., “*Flux emergence, flux imbalance, magnetic free energy and solar flares*”, 2013AdSpR..52.1561C [ADS](#)
- Gosain, S., Pevtsov, A. A., Rudenko, G. V., & Anfinogentov, S. A., “*First Synoptic Maps of Photospheric Vector Magnetic Field from SOLIS/VSM: Non-radial Magnetic Fields and Hemispheric Pattern of Helicity*”, 2013ApJ...772...52G [ADS](#)
- Komm, R., Gosain, S., & Pevtsov, A. A., “*Helicity of Subsurface Flows and Magnetic Activity in the Photosphere*”, 2013shin.confE..43K [ADS](#)
- Chowdhury, P., Choudhary, D. P., & Gosain, S., “*A Study of the Hemispheric Asymmetry of Sunspot Area during Solar Cycles 23 and 24*”, 2013ApJ...768...188C [ADS](#)
- Gosain, S. & Pevtsov, A. A., “*Resolving Azimuth Ambiguity Using Vertical Nature of Solar Quiet-Sun Magnetic Fields*”, 2013SoPh..283..195G [ADS](#)
- Gosain, S. & Foullon, C., “*Dual Trigger of Transverse Oscillations in a Prominence by EUV Fast and Slow Coronal Waves: SDO/AIA and STEREO/EUVI Observations*”, 2012ApJ...761..103G [ADS](#)
- Gosain, S., Schmieder, B., Artzner, G., Bogachev, S., & Török, T., “*A Multi-spacecraft View of a Giant Filament Eruption during 2009 September 26/27*”, 2012ApJ...761...25G [ADS](#)
- Gosain, S., Sankarasubramanian, K., Venkatakrishnan, P., & Raja Bayanna, A., “*A New Technique for Solar Imaging Spectro-polarimetry using Shack-Hartmann and Fabry-Pérot*”, 2012ASPC..463..301G [ADS](#)
- Schmieder, B., Guo, Y., Aulanier, G., et al., “*Reconstruction of 3D Coronal Magnetic Structures from THEMIS/MTR and Hinode/SOT Vector Maps*”, 2012ASPC..454..363S [ADS](#)
- Gosain, S., Venkatakrishnan, P., & Tiwari, S. K., “*Coherent Lateral Motion of Penumbra Filaments during the X-class Flare of 13 December 2006*”, 2012ASPC..454..273G [ADS](#)
- Gosain, S., “*Dynamics of coronal loops in NOAA 11158 during X2.2 flare of 15-Feb-2011*”, 2012cosp...39..699G [ADS](#)
- Gosain, S., “*Evolution of Dip-shear and Twist-shear during X-class flare in NOAA 11158*”, 2012cosp...39..698G [ADS](#)
- Komm, R. W., Gosain, S., & Pevtsov, A., “*Active regions with superpenumbral whirls and their subsurface flow vorticity*”, 2012shin.confE.119K [ADS](#)
- Gosain, S., “*Evidence for Collapsing Fields in the Corona and Photosphere during the 2011 February 15 X2.2 Flare: SDO/AIA and HMI Observations*”, 2012ApJ...749...85G [ADS](#)

- Ravindra, B. & Gosain, S., "Rapid Disappearance of Penumbra-Like Features near a Flaring Polarity Inversion Line: The Hinode Observations", [2012AdAst2012E..24R](#) [ADS](#)
- Gosain, S., Pevtsov, A. A., Rudenko, G. V., & Anfinogentov, S. A., "Detecting the Large Scale Magnetic Helicity Patterns on the Sun using SOLIS/VSM and SDO/HMI fulldisk vector magnetograms", [2011AGUFMSH31A1996G](#) [ADS](#)
- Gosain, S., "Distribution of magnetic shear angle in an emerging flux region", [2011IAUS..273..347G](#) [ADS](#)
- Gosain, S. & Venkatakrishnan, P., "Evolution of twist-shear and dip-shear in flaring active region NOAA 10930", [2011IAUS..273..212G](#) [ADS](#)
- Gosain, S. & Pevtsov, A., "Hemispheric Trends In The Current Helicity Of The Large Scale Solar Magnetic Fields : Vsm/solis And Hmi/sdo Observations", [2011SPD....42.1719G](#) [ADS](#)
- Gosain, S., Mathew, S. K., & Venkatakrishnan, P., "Acoustic Power Absorption and its Relation to Vector Magnetic Field of a Sunspot", [2011SoPh..268..335G](#) [ADS](#)
- Janardhan, P., Bisoi, S. K., & Gosain, S., "Solar Polar Fields During Cycles 21 - 23: Correlation with Meridional Flows", [2010SoPh..267..267J](#) [ADS](#)
- Tiwari, S. K., Venkatakrishnan, P., & Gosain, S., "Magnetic Non-potentiality of Solar Active Regions and Peak X-ray Flux of the Associated Flares", [2010ApJ...721..622T](#) [ADS](#)
- Gosain, S. & Venkatakrishnan, P., "The Evolution of the Twist Shear and Dip Shear During X-class Flare of 2006 December 13: Hinode Observations", [2010ApJ...720L.137G](#) [ADS](#)
- Gosain, S., Tiwari, S. K., & Venkatakrishnan, P., "On the Estimate of Magnetic Non-potentiality of Sunspots Derived Using Hinode SOT/SP Observations: Effect of Polarimetric Noise", [2010ApJ...720..1281G](#) [ADS](#)
- Artzner, G., Gosain, S., & Schmieder, B., "A Technique for Removing Background Features in SECCHI - EUVI He II 304 Å Filtergrams: Application to the Filament Eruption of 22 May 2008", [2010SoPh..262..437A](#) [ADS](#)
- Guo, Y., Schmieder, B., Bommier, V., & Gosain, S., "Magnetic Field Structures in a Facular Region Observed by THEMIS and Hinode", [2010SoPh..262..35G](#) [ADS](#)
- Gosain, S., Venkatakrishnan, P., & Tiwari, S. K., "Coherent Lateral Motion of Penumbral Filaments during X-class Flare", [2010arXiv1002.0397G](#) [ADS](#)
- Gosain, S., Schmieder, B., Venkatakrishnan, P., Chandra, R., & Artzner, G., "A 3D view of eruptive filaments by STEREO", [2010cosp...38.2916G](#) [ADS](#)
- Gosain, S. & Schmieder, B., "Estimation of width and inclination of a filament sheet using He II 304 Å observations by STEREO/EUVI", [2010AnGeo..28..149G](#) [ADS](#)
- Gosain, S. & Venkatakrishnan, P., "Phase III of the USO Solar Vector Magnetograph", [2010ASSP...19..395G](#) [ADS](#)
- Gosain, S., Venkatakrishnan, P., & Tiwari, S. K., "HINODE Observations of Coherent Lateral Motion of Penumbral Filaments During an X-Class Flare", [2009ApJ...706L.240G](#) [ADS](#)
- Gosain, S., Schmieder, B., Venkatakrishnan, P., Chandra, R., & Artzner, G., "3D Evolution of a Filament Disappearance Event Observed by STEREO", [2009SoPh..259..13G](#) [ADS](#)
- Tiwari, S. K., Venkatakrishnan, P., Gosain, S., & Joshi, J., "Effect of Polarimetric Noise on the Estimation of Twist and Magnetic Energy of Force-Free Fields", [2009ApJ...700..199T](#) [ADS](#)
- Gosain, S. & Venkatakrishnan, P., "A 2-dimensional Scanning Solar Vector Magnetograph at Udaipur Solar Observatory", [2009ASPC..405..467G](#) [ADS](#)
- Venkatakrishnan, P. & Gosain, S., "Chapter 4: Solar Magnetism", in B. N. Dwivedi and U. Narain (Eds.), Physics of the Sun and its Atmosphere, 39–60 [2008psa..book..39V](#) [ADS](#)
- Gosain, S., Tiwari, S., Joshi, J., & Venkatakrishnan, P., "Software for interactively visualizing solar vector magnetograms of udaipur solar observatory", [2008JApA...29..107G](#) [ADS](#)
- Tiwari, S. K., Joshi, J., Gosain, S., & Venkatakrishnan, P., "Evolution of Magnetic Helicity in NOAA 10923 Over Three Consecutive Solar Rotations", [2008ASSP...12..329T](#) [ADS](#)
- Gosain, S.: 2007, "Polarimetric Studies of the Solar Atmosphere", Ph.D. thesis, Physical Research Laboratory, Udaipur Solar Observatory [2007PhDT.....21G](#) [ADS](#)
- Gosain, S., "Solar Vector Magnetograph at Udaipur Solar Observatory: New Results (P18)", [2006ihy..workE.110G](#) [ADS](#)
- Gosain, S., Venkatakrishnan, P., & Venugopalan, K., "Acoustic power and magnetic field orientation in a large sunspot", [2006ESASP.624E..59G](#) [ADS](#)
- Gosain, S., Venkatakrishnan1, P., & Venugopalan, K., "Design and Status of Solar Vector Magnetograph (SVM-I) at Udaipur Solar Observatory", [2006JApA...27..285G](#) [ADS](#)
- Ambastha, A., Ravindra, B., & Gosain, S., " H_{α} Observations of 8 June, 2004 Venus Transit", [2006SoPh..233..171A](#) [ADS](#)
- Ravindra, B., Ambastha, A., & Gosain, S., "Preliminary Results of Venus Transit of June 8, 2004 Observed in $H\alpha$ 6563 Å", [2005BAST...33..366R](#) [ADS](#)