

Bibliography from ADS file: chae.bib  
September 14, 2022

- Chae, J., Cho, K., Lim, E.-K., & Kang, J., “Propagating Alfvénic Waves Observed in the Chromosphere around a Small Sunspot: Tales of 3-minute Waves and 10-minute Waves”, 2022ApJ...933..108C ADS
- Lee, K. S., Chae, J., Park, E., et al., “Fast Spectral Inversion of the H And Ca II 8542 Line Spectra Based on a Deep Learning Model”, 2021AGUFMSH44A..01L ADS
- Cho, K., Chae, J., & Madjarska, M. S., “Investigation of the subsurface structure of a sunspot based on the spatial distribution of oscillation centers inferred from umbral flashes”, 2021A&A...656A..86C ADS
- Chae, J. & Litvinenko, Y. E., “Electric resistivity of partially ionized plasma in the lower solar atmosphere”, 2021RAA...21..232C ADS
- Chae, J., Cho, K., Kang, J., et al., “Multilayer Spectral Inversion of Solar H $\alpha$  and Ca II 8542 Line Spectra with Height-varying Absorption Profiles”, 2021JKAS...54..139C ADS
- Chae, J., “Ionization of Hydrogen in the Solar Atmosphere”, 2021JASS...38..83C ADS
- Chae, J., Cho, K., Nakariakov, V. M., Cho, K.-S., & Kwon, R.-Y., “Spectroscopic Detection of Alfvénic Waves in the Chromosphere of Sunspot Regions”, 2021ApJ...914L..16C ADS
- Madjarska, M. S., Chae, J., Moreno-Insertis, F., et al., “The chromospheric component of coronal bright points. Coronal and chromospheric responses to magnetic-flux emergence”, 2021A&A...646A.107M ADS
- Lim, E.-K., Yang, H., Yurchyshyn, V., et al., “Detection of Opposite Magnetic Polarity in a Light Bridge: Its Emergence and Cancellation in Association with LB Fan-shaped Jets”, 2020ApJ...904..84L ADS
- Kwak, H., Chae, J., Madjarska, M. S., Cho, K., & Song, D., “Impulsive wave excitation by rapidly changing granules”, 2020A&A...642A.154K ADS
- Chae, J., Madjarska, M. S., Kwak, H., & Cho, K., “Inference of chromospheric plasma parameters on the Sun. Multilayer spectral inversion of strong absorption lines”, 2020A&A...640A..45C ADS
- Chae, J., Madjarska, M. S., Kwak, H., & Cho, K., “Inference of chromospheric plasma parameters on the Sun”, 2020arXiv200611981C ADS
- Cho, K., Chae, J., Kwon, R.-Y., Bong, S.-C., & Cho, K.-S., “The Application of the Filtered Backprojection Algorithm to Solar Rotational Tomography”, 2020ApJ...895...55C ADS
- Cho, K. & Chae, J., “Source Depth of Three-minute Umbral Oscillations”, 2020ApJ...892L..31C ADS
- Kim, Y. J., Kwon, R.-Y., & Chae, J., “A Study of Small Flares Associated with Plasma Blobs Outflowing along Post-CME Rays”, 2020JKAS...53...1K ADS
- Seo, H., Kim, E., Ryu, K., et al., “Launch and early operation result of charged particle detector in the range of 20 keV to 400 keV with deflecting electrostatic field for in-situ measurement of suprathermal electrons, protons, and neutrals”, 2019AGUFMSH41E3306S ADS
- Chae, J., Kang, J., & Litvinenko, Y. E., “Linear Acoustic Waves in a Nonisothermal Atmosphere. II. Photospheric Resonator Model of Three-minute Umbral Oscillations”, 2019ApJ...883..72C ADS
- Cho, K., Chae, J., Lim, E.-K., & Yang, H., “The Observational Evidence for the Internal Excitation of Sunspot Oscillations Inferred from the Fe I 5435 Å Line”, 2019ApJ...879...67C ADS
- Kang, J., Chae, J., Nakariakov, V. M., et al., “The Physical Nature of Spiral Wave Patterns in Sunspots”, 2019ApJ...877L...9K ADS
- Seo, M., Quintero Noda, C., Lee, J., & Chae, J., “Depth of Ellerman Burst Derived from High-resolution H $\alpha$  and Ca II 8542 Å Spectra”, 2019ApJ...871..125S ADS
- Kang, J., Chae, J., Kwak, H., & Yang, H., “Development of the SNU Coelostat: Conceptual Design”, 2018JKAS...51..207K ADS
- Chae, J. & Litvinenko, Y. E., “Linear Acoustic Waves in a Nonisothermal Atmosphere. I. Simple Nonisothermal Layer Solution and Acoustic Cutoff Frequency”, 2018ApJ...869...36C ADS
- Liu, C., Cao, W., Chae, J., et al., “Evolution of Photospheric Vector Magnetic Field Associated with Moving Flare Ribbons as Seen by GST”, 2018ApJ...869...21L ADS
- Yang, H., Xu, Z., Lim, E.-K., et al., “Observation of the Kelvin-Helmholtz Instability in a Solar Prominence”, 2018ApJ...857..115Y ADS
- Chae, J., Cho, K., Song, D., & Litvinenko, Y. E., “Nonlinear Effects in Three-minute Oscillations of the Solar Chromosphere. II. Measurement of Nonlinearity Parameters at Different Atmospheric Levels”, 2018ApJ...854..127C ADS
- Xu, Y., Cao, W., Ahn, K., et al., “Transient rotation of photospheric vector magnetic fields associated with a solar flare”, 2018NatCo...9...46X ADS
- Song, D., Chae, J., Kwak, H., et al., “Three-minute Sunspot Oscillations Driven by Magnetic Reconnection in a Light Bridge”, 2017ApJ...850L..33S ADS
- Lim, E.-K., Yurchyshyn, V., Kumar, P., et al., “Observation of a Large-scale Quasi-circular Secondary Ribbon Associated with Successive Flares and a Halo CME”, 2017ApJ...850..167L ADS
- Lee, J., White, S. M., Jing, J., et al., “Thermal and Nonthermal Emissions of a Composite Flare Derived from NoRH and SDO Observations”, 2017ApJ...850..124L ADS
- Xu, Y., Cao, W., Kwangsu, A., et al., “Magnetic vector rotation in response to the energetic electron beam during a flare”, 2017SPD...4810001X ADS
- Chae, J. & Litvinenko, Y. E., “Nonlinear Effects in Three-minute Oscillations of the Solar Chromosphere. I. An Analytical Nonlinear Solution and Detection of the Second Harmonic”, 2017ApJ...844..129C ADS
- Chae, J., Cho, K., Kwon, R.-Y., & Lim, E.-K., “Evidence for a Magnetic Reconnection Origin of Plasma Outflows along Post-CME Rays”, 2017ApJ...841...49C ADS
- Chae, J. & Kim, Y. H., “Performance of the Autoregressive Method in Long-Term Prediction of Sunspot Number”, 2017JKAS...50..21C ADS
- Litvinenko, Y. E. & Chae, J., “Analytical description of nonlinear acoustic waves in the solar chromosphere”, 2017A&A...599A..15L ADS
- Chae, J., Lee, J., Cho, K., et al., “Photospheric Origin of Three-minute Oscillations in a Sunspot”, 2017ApJ...836...18C ADS
- Song, D., Chae, J., Yurchyshyn, V., et al., “Chromospheric Plasma Ejections in a Light Bridge of a Sunspot”, 2017ApJ...835..240S ADS
- Lee, J., Liu, C., Jing, J., & Chae, J., “Solar Eruption and Local Magnetic Parameters”, 2016ApJ...831L..18L ADS
- Cho, K., Lee, J., Chae, J., et al., “Strong Blue Asymmetry in H $\alpha$  Line as a Preflare Activity”, 2016SoPh...291.2391C ADS
- Yang, H., Chae, J., Lim, E.-K., et al., “Fine-scale Photospheric Connections of Ellerman Bombs”, 2016ApJ...829..100Y ADS
- Lee, J., Liu, C., Jing, J., & Chae, J., “Solar Multiple Eruptions from a Confined Magnetic Structure”, 2016ApJ...829L...1L ADS
- Xu, Y., Cao, W., Ding, M., et al., “Ultra-Narrow Negative Flare Front Observed in Helium-10830 Å Using the 1.6m New Solar Telescope”, 2016SPD...47.0633X ADS
- Bong, S.-C., Choi, S., Jang, B.-H., et al., “2016 Total Solar Eclipse Expedition of KAS”, 2016SPD...47.0311B ADS
- Ahn, K., Cao, W., Shumko, S., & Chae, J., “Data Processing of the magnetograms for the Near InfraRed Imaging Spectropolarimeter at Big Bear Solar Observatory”, 2016SPD...47.0207A ADS
- Kwak, H., Chae, J., Song, D., et al., “Oscillatory Response of the Solar Chromosphere to a Strong Downflow Event above a Sunspot”, 2016ApJ...821L..30K ADS
- Xu, Y., Cao, W., Ding, M., et al., “Ultra-narrow Negative Flare Front Observed in Helium-10830 Å Using the 1.6 m New Solar Telescope”, 2016ApJ...819...89X ADS
- Cho, K., Chae, J., Lim, E.-K., et al., “a New Method to Determine the Temperature of CMES Using a Coronagraph Filter System”, 2016JKAS...49...45C ADS
- Lim, E.-K., Yurchyshyn, V., Park, S.-H., et al., “Observations of a Series of Flares and Associated Jet-like Eruptions Driven by the Emergence of Twisted Magnetic Fields”, 2016ApJ...817...39L ADS
- Lee, J., Liu, C., Jing, J., & Chae, J., “Coronal Magnetic Structures for Homologous Eruptions”, 2015AGUFMSH21C..05L ADS
- KIM, H., Sohn, J., Lee, J., et al., “Development of Space Science Instruments for Next Generation Small Satellite -I”, 2015AGUFMSA51C2413K ADS
- Song, D., Chae, J., Park, S., et al., “Detection of a Fine-scale Discontinuity of Photospheric Magnetic Fields Associated with Solar Coronal Loop Brightenings”, 2015ApJ...810L..16S ADS
- Bong, S.-C., Yang, H., Cho, K., et al., “A Prestudy for the Development of a Compact Coronagraph”, 2015IAUGA..2254511B ADS
- Chae, J. & Goode, P., “Acoustic Waves Generated by a Disturbance in a Gravitationally-Stratified Medium”, 2015IAUGA..2232493C ADS
- Chae, J. & Goode, P. R., “Acoustic Waves Generated by Impulsive Disturbances in a Gravitationally Stratified Medium”, 2015ApJ...808..118C ADS
- Chae, J., Song, D., Seo, M., et al., “Detection of Shock Merging in the Chromosphere of a Solar Pore”, 2015ApJ...805L..21C ADS
- Cho, K. S., Bong, S. C., Nakariakov, V. M., et al., “Intensity and Doppler Velocity Oscillations in Pore Atmospheres”, 2015ApJ...802...45C ADS
- Ryu, K., Parrot, M., Kim, S. G., et al., “Suspected seismo-ionospheric coupling observed by satellite measurements and GPS TEC related to the M7.9 Wenchuan earthquake of 12 May 2008”, 2014JGRA...11910305R ADS
- Kim, H. E., Lee, E., Kim, K. H., et al., “Variations of the electron density in the low and middle latitude ionosphere due to high-speed solar wind streams observed by the DEMETER satellite”, 2014AGUFMSA11B3945K ADS
- Ahn, K., Chae, J., Cho, K.-S., et al., “Active Region Coronal Rain Event Observed by the Fast Imaging Solar Spectrograph on the NST”, 2014SoPh...289.4117A ADS
- Ryu, K., Lee, E., Chae, J. S., Parrot, M., & Pulinet, S., “Seismo-ionospheric coupling appearing as equatorial electron density enhancements observed via DEMETER electron density measurements”, 2014JGRA...119.8524R ADS

- Yang, H., Chae, J., Lim, E.-K., et al., “Magnetic-reconnection Generated Shock Waves as a Driver of Solar Surges”, 2014ApJ...790L...4Y ADS
- Chae, J., Yang, H., Park, H., et al., “Superpenumbral Fibrils Powered by Sunspot Oscillations”, 2014ApJ...789...108C ADS
- Yang, H. & Chae, J., “Magnetic-Reconnection Generated Shock Waves as a Driver of Solar Surges”, 2014shin.confE.147Y ADS
- Ryu, K., Lee, E., Chae, J. S., Parrot, M., & Oyama, K. I., “Multisatellite observations of an intensified equatorial ionization anomaly in relation to the northern Sumatra earthquake of March 2005”, 2014JGRA...119.4767R ADS
- Yang, H., Chae, J., Park, H., et al., “Shock Waves As a Driver of Surges”, 2014cosp...40E3698Y ADS
- Oh, S., Park, H., Yi, Y., & Chae, J., “Signals of solar cosmic ray flux variations inferred from the noise in raw CCD solar images taken by SOHO/EIT”, 2014JGRA...119...880 ADS
- Chae, J., Park, H., & Song, D., “Determination of Temperature in Solar Prominences/Filaments Using FISS Observations”, 2014IAUS...300...85C ADS
- Chae, J., “Spectral Inversion of the H $\alpha$  Line for a Plasma Feature in the Upper Chromosphere of the Quiet Sun”, 2014ApJ...780...109C ADS
- Maurya, R. A., Ambastha, A., & Chae, J., “Activity-related variations of high-degree p-mode amplitude, width, and energy in solar active regions”, 2014A&A...561A.123M ADS
- Park, H., Chae, J., Song, D., et al., “Temperature of Solar Prominences Obtained with the Fast Imaging Solar Spectrograph on the 1.6 m New Solar Telescope at the Big Bear Solar Observatory”, 2013SoPh...288...105P ADS
- Chae, J., Park, H.-M., Ahn, K., et al., “Doppler Shifts of the H $\alpha$  Line and the Ca II 854.2 nm Line in a Quiet Region of the Sun Observed with the FISS/NST”, 2013SoPh...288...89C ADS
- Maurya, R. A., Chae, J., Park, H., et al., “Chromospheric Sunspot Oscillations in H $\alpha$  and Ca II 8542 Å”, 2013SoPh...288...73M ADS
- Andić, A., Chae, J., Park, H., et al., “Connection Between Chromospheric Events and Photospheric Dynamics”, 2013SoPh...288...55A ADS
- Yang, H., Chae, J., Lim, E.-K., et al., “Velocities and Temperatures of an Ellerman Bomb and Its Associated Features”, 2013SoPh...288...39Y ADS
- Cho, K. S., Bong, S. C., Chae, J., et al., “FISS Observations of Vertical Motion of Plasma in Tiny Pores”, 2013SoPh...288...23C ADS
- Chae, J., Park, H.-M., Ahn, K., et al., “Fast Imaging Solar Spectrograph of the 1.6 Meter New Solar Telescope at Big Bear Solar Observatory”, 2013SoPh...288...1C ADS
- Park, S.-H., Kusano, K., Cho, K.-S., et al., “Study of Magnetic Helicity Injection in the Active Region NOAA 9236 Producing Multiple Flare-associated Coronal Mass Ejection Events”, 2013ApJ...778...13P ADS
- Kwon, R.-Y., Kramar, M., Wang, T., et al., “Global Coronal Seismology in the Extended Solar Corona through Fast Magnetosonic Waves Observed by STEREO SECCHI COR1”, 2013ApJ...776...55K ADS
- Panditi, V., Ambastha, A., Maurya, R., et al., “Helicity injection by flux motions and its role in flare and CMEs”, 2013SPD...4430003P ADS
- Maurya, R. A. & Chae, J., “Chromospheric Waves and Oscillations in Sunspots”, 2013enss.confE...45M ADS
- Vemareddy, P., Ambastha, A., Maurya, R. A., & Chae, J., “Helicity Injection by the Shearing Motion of Fluxes in Relation to Flares and Coronal Mass Ejections”, 2013enss.confE...8V ADS
- Ajor Maurya, R., Chae, J., Park, H., et al., “Chromospheric Sunspot Oscillations in H-alpha and Ca II 8542Å”, 2013arXiv1302.1234A ADS
- Oh, S., Park, H., Chae, J., & Yi, Y., “Solar Cosmic Ray Flux Variation Estimated from the Raw Solar Images Taken by SOHO/EIT”, 2013ICRC...33.34760 ADS
- Vemareddy, P., Ambastha, A., Maurya, R. A., & Chae, J., “On the Injection of Helicity by the Shearing Motion of Fluxes in Relation to Flares and Coronal Mass Ejections”, 2012ApJ...761...86V ADS
- Kwon, R.-Y., Chae, J., Davila, J. M., et al., “Three-dimensional Structure and Evolution of Extreme-ultraviolet Bright Points Observed by STEREO/SECCHI/EUVT”, 2012ApJ...757...167K ADS
- Park, S. & Chae, J., “Ca II Transient Brightenings Associated with Canceling Magnetic Features”, 2012SoPh...280...103P ADS
- Lim, E. K., Chae, J., Jing, J., Wang, H., & Wiegmann, T., “The Formation of a Magnetic Channel by Emergence of Current-Carrying Magnetic Fields”, 2012ASPC...454...185L ADS
- Kwon, R. Y. & Chae, J., “First Stereoscopic Determinations of Heights and Their Variations of EUV Bright Points Using SECCHI EUVI aboard STEREO”, 2012ASPC...454...163K ADS
- Park, S., Chae, J., & Litvinenko, Y. E., “Rates of Magnetic Flux Cancellation Measured with Hinode/SOT”, 2012ASPC...454...59P ADS
- Ajor Maurya, R., Chae, J., & Park, H., “Waves in the Solar Chromosphere using FISS and SDO”, 2012cosp...39.1204A ADS
- Park, S.-H., Cho, K.-S., Bong, S.-C., et al., “The Occurrence and Speed of CMEs Related to Two Characteristic Evolution Patterns of Helicity Injection in Their Solar Source Regions”, 2012ApJ...750...48P ADS
- Chae, J., “Magnetic Reconnection in the Photosphere and Chromosphere”, 2012ASPC...455...187C ADS
- Yuan, Y., Shih, F. Y., Jing, J., Wang, H., & Chae, J., “Automatic Solar Filament Segmentation and Characterization”, 2011SoPh...272...101Y ADS
- Andic, A., Chae, J., & Goode, P. R., “Substructure of quiet sun bright points”, 2011IAUS...273...339A ADS
- Ahn, K., Chae, J., Nah, J., et al., “Active Region High Velocity Events Observed by Fast Imaging Solar Spectrograph on the NST”, 2011SPD...42.1904A ADS
- Cho, K., Bong, S., Chae, J., et al., “Tiny Pores Observed by New Solar Telescope and Hinode”, 2011SPD...42.1903C ADS
- Andic, A., Chae, J., Park, H., & Yang, H., “Chromospheric Response At The Photospheric Dynamic”, 2011SPD...42.1735A ADS
- Kim, Y.-H., Bong, S., Cho, K., et al., “Propagating Transverse Wave In A Spicule Observed By The Hinode Sof”, 2011SPD...42.0306K ADS
- Andić, A., Chae, J., Goode, P. R., et al., “Response of Granulation to Small-scale Bright Features in the Quiet Sun”, 2011ApJ...731...29A ADS
- Nah, J.-K., Chae, J.-C., Park, Y.-D., et al., “Development of the Fast Imaging Solar Spectrograph for 1.6 m New Solar Telescope”, 2011PKAS...26...45N ADS
- Cho, K. S., Chae, J., Moon, Y. J., & Choe, G. S., “Recent activities of solar astronomers in Korea”, 2011ASInC...2...383C ADS
- Park, Y. D., Kim, Y. H., Chae, J., et al., “Fast Imaging Solar Spectrograph System in New Solar Telescope”, 2010nspm.conf...189P ADS
- Kim, Y. H., Park, Y. D., Bong, S. C., Cho, K. S., & Chae, J., “A small-scale H-alpha eruption in the north polar limb of the Sun observed by New Solar Telescope”, 2010nspm.conf...73K ADS
- Cho, K., Bong, S., Chae, J., Kim, Y., & Park, Y., “Tiny Pores observed by HINODE/SOT”, 2010AGUFM5H11B1647C ADS
- Cho, K.-S., Bong, S.-C., Chae, J., Kim, Y.-H., & Park, Y.-D., “Tiny Pores Observed by Hinode/Solar Optical Telescope”, 2010ApJ...723...440C ADS
- Yurchyshyn, V. B., Goode, P. R., Abramenko, V. I., et al., “Chromospheric Signatures of Small-scale Flux Emergence as Observed with New Solar Telescope and Hinode Instruments”, 2010ApJ...722.1970Y ADS
- Ahn, K., Chae, J., Cao, W., & Goode, P. R., “Patterns of Flows in an Intermediate Prominence Observed by Hinode”, 2010ApJ...721...74A ADS
- Park, S.-H., Chae, J., Jing, J., Tan, C., & Wang, H., “Time Evolution of Coronal Magnetic Helicity in the Flaring Active Region NOAA 10930”, 2010ApJ...720.1102P ADS
- Lim, E.-K., Chae, J., Jing, J., Wang, H., & Wiegmann, T., “The Formation of a Magnetic Channel by the Emergence of Current-carrying Magnetic Fields”, 2010ApJ...719...403L ADS
- Park, S.-h., Chae, J., & Wang, H., “Productivity of Solar Flares and Magnetic Helicity Injection in Active Regions”, 2010ApJ...718...43P ADS
- Andić, A., Goode, P. R., Chae, J., et al., “Oscillatory Behavior in the Quiet Sun Observed with the New Solar Telescope”, 2010ApJ...717L...79A ADS
- Chae, J.-C., “Non-Hydrostatic Support of Plasma in the Solar Chromosphere and Corona”, 2010JKAS...43...55C ADS
- Goode, P. R., Yurchyshyn, V., Cao, W., et al., “Highest Resolution Observations of the Quiet Sun”, 2010ApJ...714L...31G ADS
- Chae, J., “Dynamics of Vertical Threads and Descending Knots in a Hedgerow Prominence”, 2010ApJ...714...618C ADS
- Kwon, R.-Y., Chae, J., & Zhang, J., “Stereoscopic Determination of Heights of Extreme Ultraviolet Bright Points Using Data Taken by SECCHI/EUVI Aboard STEREO”, 2010ApJ...714...130K ADS
- Chae, J., Goode, P. R., Ahn, K., et al., “New Solar Telescope Observations of Magnetic Reconnection Occurring in the Chromosphere of the Quiet Sun”, 2010ApJ...713L...6C ADS
- Chae, J. & Park, S., “Magnetic Activity on the Sun Revealed by Hinode/SOT (Keynote)”, 2009ASPC...415...101C ADS
- Chae, J., “NST observations of H alpha features and the non-hydrostatic support of the solar chromosphere”, 2009AGUFM5H51A1258C ADS
- Park, S., Chae, J., & Litvinenko, Y. E., “Rates of Photospheric Magnetic Flux Cancellation Measured with Hinode”, 2009ApJ...704L...71P ADS
- Min, S. & Chae, J., “The Rotating Sunspot in AR 10930”, 2009SoPh...258...203M ADS
- Sung, S. K., Marubashi, K., Cho, K. S., et al., “A Comparison of the Initial Speed of Coronal Mass Ejections with the Magnetic Flux and Magnetic Helicity of Magnetic Clouds”, 2009ApJ...699...298S ADS
- Chae, J.-C. & Moon, Y.-J., “Estimation of Errors in the Transverse Velocity Vectors Determined from HINODE/SOT Magnetograms Using the NAVÉ Technique”, 2009JKAS...42...61C ADS
- Ahn, K., Chae, J., & Goode, P., “Return Flows in a Counter-streaming Prominence”, 2009SPD...40.1008A ADS
- Lim, E.-K. & Chae, J., “Chirality of Intermediate Filaments and Magnetic Helicity of Active Regions”, 2009SPD...40.0912L ADS
- Litvinenko, Y. E. & Chae, J., “Signatures of Sweet-Parker magnetic reconnection in the solar chromosphere”, 2009A&A...495...953L ADS

- Jeong, H.-W., Chae, J.-C., & Moon, Y. J., "Magnetic Helicity Injection during the Formation of AN Intermediate Filament", 2009JKAS...42...93 ADS
- Lim, E.-K. & Chae, J., "Chirality of Intermediate Filaments and Magnetic Helicity of Active Regions", 2009ApJ...692...104L ADS
- Chae, J., Ahn, K., Lim, E.-K., Choe, G. S., & Sakurai, T., "Persistent Horizontal Flows and Magnetic Support of Vertical Threads in a Quiescent Prominence", 2008ApJ...689L..73C ADS
- Chae, J. & Sakurai, T., "A Test of Three Optical Flow Techniques-LCT, DAVE, and NAVE", 2008ApJ...689...593C ADS
- Park, S.-H., Lee, J., Choe, G. S., et al., "The Variation of Relative Magnetic Helicity around Major Flares", 2008ApJ...686.1397P ADS
- Chae, J., Litvinenko, Y. E., & Sakurai, T., "Determination of Magnetic Diffusivity from High-Resolution Solar Magnetograms", 2008ApJ...683.1153C ADS
- Ahn, K.-S., Chae, J.-C., Park, H.-M., et al., "Capability of the Fast Imaging Solar Spectrograph on NST/BBSO for Observing Filaments/Prominences at the Spectral Lines H $\alpha$ , Ca II 8542, and Ca II K", 2008JKAS...41...39A ADS
- Kwon, R. Y. & Chae, J., "Magnetic Twist of EUV Coronal Loops Well-traced in TRACE Images: Evidence for Magnetic Reconnection Origin of Coronal Loops?", 2008ApJ...677L.141K ADS
- Chae, J., "Magnetic Twist of EUV Coronal Loops Observed by TRACE: Evidence for Magnetic Reconnection Origin of Coronal Loops?", 2008cosp...37..483C ADS
- Chae, J., Litvinenko, Y. E., & Sakurai, T., "Determination of Magnetic Diffusivity from High Resolution Solar Magnetograms", 2008cosp...37..482C ADS
- Jing, J., Chae, J., & Wang, H., "Spatial Distribution of Magnetic Reconnection in the 2006 December 13 Solar Flare as Observed by Hinode", 2008ApJ...672L..73J ADS
- Park, S.-Y. & Chae, J.-C., "Analysis of Korean Historical Comet Records", 2007PKAS...22...151P ADS
- Jeong, H. & Chae, J., "Magnetic Helicity Injection in Active Regions", 2007ApJ...671.1022J ADS
- Kim, Y., Moon, Y., Cho, K., et al., "Small-scale X-ray/EUV Jets seen in Hinode XRT and TRACE", 2007AGUFM5H3A1061K ADS
- Sung, S., Marubashi, K., Kim, K., et al., "Relationship between CME initial speed and magnetic helicity of magnetic clouds", 2007AGUFM5H3A10228S ADS
- Kim, S., Moon, Y.-J., Kim, K.-H., et al., "Two-Step Reconnections in a C3.3 Flare and Its Preflare Activity Observed by Hinode XRT", 2007PASJ...59S.831K ADS
- Kim, Y.-H., Moon, Y.-J., Park, Y.-D., et al., "Small-Scale X-Ray/EUV Jets Seen in Hinode XRT and TRACE", 2007PASJ...59S.763K ADS
- Moon, Y.-J., Kim, Y.-H., Park, Y.-D., et al., "Hinode SP Vector Magnetogram of AR10930 and Its Cross-Comparison with MDF", 2007PASJ...59S.625M ADS
- Chae, J., Moon, Y.-J., Park, Y.-D., et al., "Initial Results on Line-of-Sight Field Calibrations of SP/NFI Data Taken by SOT/Hinode", 2007PASJ...59S.619C ADS
- Moon, Y. J., Chae, J., & Park, Y. D., "Low Atmosphere Reconnections Associated with a Filament Eruption", 2007ASPC...369..425M ADS
- Kwon, R. Y. & Chae, J., "Magnetic Twist of EUV Coronal Loops Observed by TRACE", 2007ASPC...369..299K ADS
- Chae, J., "Chromospheric Magnetic Reconnection", 2007ASPC...369..243C ADS
- Lim, E. K., Jeong, H., & Chae, J., "Determination of Magnetic Helicity of a Solar Active Region Using the Linear Force-Free Field Model", 2007ASPC...369..175L ADS
- Jeong, H. & Chae, J., "Evolutionary Characteristics of Magnetic Helicity Injection in Active Regions", 2007ASPC...369..167J ADS
- Chae, J.-C., Park, H.-M., & Park, Y.-D., "H $\alpha$  Spectral Properties of Velocity Threads Constituting a Quiescent Solar Filament", 2007JKAS...40...67C ADS
- Litvinenko, Y. E., Chae, J., & Park, S.-Y., "Flux Pile-up Magnetic Reconnection in the Solar Photosphere", 2007ApJ...662.1302L ADS
- Lim, E.-K., Jeong, H., Chae, J., & Moon, Y.-J., "A Check for Consistency between Different Magnetic Helicity Measurements Based on the Helicity Conservation Principle", 2007ApJ...656.1167L ADS
- Chae, J., "Measurements of magnetic helicity injected through the solar photosphere", 2007AdSpR...39.1700C ADS
- Sung, S., Chae, J., Lim, E., & Kim, K., "Magnetic helicity comparison between coronal magnetic field of an active region and interplanetary magnetic cloud", 2006AGUFM5H3B0410S ADS
- Denker, C., Goode, P. R., Ren, D., et al., "Progress on the 1.6-meter New Solar Telescope at Big Bear Solar Observatory", 2006SPIE.6267E..0AD ADS
- Park, S.-H., Chae, J., Jeong, H., et al., "Two Phases of Helicity Variation Around Major Flares", 2006SPD...37.2201P ADS
- Chae, J., Park, Y.-D., & Park, H.-M., "Imaging Spectroscopy of a Solar Filament Using a Tunable H $\alpha$  Filter", 2006SoPh...234..115C ADS
- Chae, J., Jeong, H., & Lim, E., "Measurements of Magnetic Helicity Injected through the Photosphere and Magnetic Helicity Content in the Corona", 2006cosp...36..880C ADS
- Bong, S.-C., Lee, J.-W., Gary, D. E., Yun, H.-S., & Chae, J.-C., "Spatio-Spectral Maximum Entropy Method: II. Solar Microwave Imaging Spectroscopy", 2005JKAS...38..445B ADS
- Chae, J. & Moon, Y.-J., "Magnetic Twist of an Extreme-Ultraviolet Coronal Loop Inferred from Plasma Constriction", 2005ApJ...629.1110C ADS
- Moon, Y. J., Cho, K. S., Chae, J., et al., "New extrapolation method for coronal mass ejection onset time estimation", 2005JGRA...110.7103M ADS
- Chae, J. & Jeong, H., "a Method for Determining Magnetic Helicity of Solar Active Regions from Soho/mdi Magneto Grams", 2005JKAS...38..295C ADS
- Chae, J., Moon, Y.-J., & Park, Y.-D., "The Magnetic Structure of Filament Barbs", 2005ApJ...626..574C ADS
- Moon, Y. J., Cho, K. S., Dryer, M., et al., "New Geoeffective Parameters of Very Fast Halo Coronal Mass Ejections", 2005ApJ...624..414M ADS
- Denker, C., Cao, W., Chae, J., et al., "The New Solar Telescope at Big Bear Solar Observatory - A Progress Report", 2005AGUSMSP43A..07D ADS
- Moon, Y., Cho, K., Dryer, M., et al., "New Geoeffective Parameters of Very Fast Halo Coronal Mass", 2005AGUSMSP43A..01M ADS
- Chae, J. & Moon, Y.-J., "Technique for Inferring Magnetic Helicity of Active Regions", 2005HiA...13..109C ADS
- Moon, Y.-J., Cho, K.-S., Jin, H., et al., "Preliminary Feasibility Study of the Solar Observation Payloads for STSAT-CLASS Satellites", 2004JASS...21..329M ADS
- Chae, J., Moon, Y.-J., & Park, Y.-D., "Determination of magnetic helicity content of solar active regions from SOHO/MDI magnetograms", 2004SoPh...223...39C ADS
- Chae, J., "Flat-Fielding of Solar Magnetograph Observations Using Relatively Shifted Images", 2004SoPh...221...15C ADS
- Chae, J., "Flat-Fielding of Solar H $\alpha$  Observations Using Relatively Shifted Images", 2004SoPh...221...1C ADS
- Moon, Y. J., Chae, J., Choe, G. S., et al., "Low Atmosphere Reconnections Associated with AN Eruptive Solar Flare", 2004JKAS...37...41M ADS
- Chae, J., Moon, Y.-J., & Pevtsov, A. A., "Observational Evidence of Magnetic Flux Submergence in Flux Cancellation Sites", 2004ApJ...602L..65C ADS
- Moon, Y. J., Chae, J., & Park, Y. D., "Magnetic Helicity Changes of Solar Active Regions by Photospheric Horizontal Motions", 2003JKAS...36S..37M ADS
- Lee, S., Yun, H. S., Chae, J., & Goode, P. R., "Small-Scale H $\alpha$  Dynamic Features Supported by Chromo Spheric Magnetic Reconnection", 2003JKAS...36S..21L ADS
- Chae, J., Moon, Y.-J., & Park, S.-Y., "Observational Tests of Chromospheric Magnetic Reconnection", 2003JKAS...36S..13C ADS
- Moon, Y. J., Chae, J., Choe, G. S., Wang, H., & Park, Y. D., "Pre-flare Activity, Canceling Magnetic Features, and Filament Initiation associated with an X-class Flare", 2003SPD...34.1611M ADS
- Chae, J., Moon, Y. J., Rust, D. M., Wang, H., & Goode, P. R., "Magnetic Helicity Pumping by Twisted Flux Tube Expansion", 2003JKAS...36...33C ADS
- Chae, J., "The Formation of a Prominence in NOAA Active Region 8668. II. Trace Observations of Jets and Eruptions Associated with Canceling Magnetic Features", 2003ApJ...584.1084C ADS
- Chae, J. & Moon, Y.-J., "Techniques for Inferring Active Region Magnetic Helicity", 2003IAUJD...3E..25C ADS
- Moon, Y. J., Chae, J., Wang, H., & Park, Y. D., "Magnetic helicity change rate associated with three X-class eruptive flares", 2003AdSpR...32.1953M ADS
- Chae, J., Poland, A. I., & Aschwanden, M. J., "Coronal Loops Heated by Magnetohydrodynamic Turbulence. I. A Model of Isobaric Quiet-Sun Loops with Constant Cross Sections", 2002ApJ...581..726C ADS
- Moon, Y. J., Chae, J., Wang, H., Choe, G. S., & Park, Y. D., "Impulsive Variations of the Magnetic Helicity Change Rate Associated with Eruptive Flares", 2002ApJ...580..528M ADS
- Moon, Y. J., Chae, J., Choe, G. S., et al., "Flare Activity and Magnetic Helicity Injection by Photospheric Horizontal Motions", 2002ApJ...574.1066M ADS
- Moon, Y. J., Choe, G. S., Park, Y. D., et al., "Statistical Evidence for Sympathetic Flares", 2002ApJ...574..434M ADS
- Chae, J., Moon, Y.-J., Wang, H., & Yun, H. S., "Flux Cancellation Rates and Converging Speeds of Canceling Magnetic Features", 2002SoPh...207...73C ADS
- Yun, H. S., Chae, J., Moon, Y. J., Wang, H., & Goode, P. R., "Magnetic Helicity Injection By Transient Photospheric Shear Flows in Flares and Prominences", 2002AAS...200.3716Y ADS

- Chae, J., Yun, H. S., Moon, Y. J., Wang, H., & Goode, P., "The Origin of Mass, Magnetic Flux, and Magnetic Helicity in a Solar Prominence", 2002AAS...200.3715C ADS
- Moon, Y. J., Chae, J., Choe, G., et al., "Flare Activity and Magnetic Helicity Injection By Photospheric Horizontal Motions", 2002AAS...200.2002M ADS
- Chae, J., Choi, B.-K., & Park, M.-J., "Chromospheric Magnetic Reconnection on the Sun", 2002JKAS...35...59C ADS
- Chae, J., Park, Y.-D., Moon, Y.-J., Wang, H., & Yun, H. S., "Temperatures of Extreme-Ultraviolet-emitting Plasma Structures Observed by the Transition Region and Coronal Explorer", 2002ApJ...567L.159C ADS
- Yun, H. S., Lee, S., Chae, J., et al., "Dip-Like Magnetic Field Structure Seen in Solar Prominences", 2002stma.conf..103Y ADS
- Moon, Y., Chae, J., Wang, H., Choe, G., & Park, Y., "Magnetic helicity injection associated with solar flares", 2002cosp...34E.471M ADS
- Chae, J., "Observational Determination of the Rate of Magnetic Helicity Transport through the Solar Surface via the Horizontal Motion of Field Line Footpoints", 2001ApJ...560L..95C ADS
- Chae, J., Wang, H., Qiu, J., et al., "The Formation of a Prominence in Active Region NOAA 8668. I. SOHO/MDI Observations of Magnetic Field Evolution", 2001ApJ...560..476C ADS
- Wang, H., Chae, J., Yurchyshyn, V., et al., "Inter-Active Region Connection of Sympathetic Flaring on 2000 February 17", 2001ApJ...559.1171W ADS
- Chae, J., "Are Non-thermal Motions in the Solar Corona Evidence for Coronal Heating by MHD Turbulence?", 2001APS..DPPFM1005C ADS
- Spirock, T. J., Denker, C., Varsik, J., et al., "Results from the Big Bear Solar Observatory's New Digital Vector Magnetograph", 2001AGUSM..SP51B06S ADS
- Wang, H., Chae, J., Yurchyshyn, V., et al., "Inter-Active Region Connection of Sympathetic Flaring on 2000 February 17", 2001AGUSM..SP42A03W ADS
- Bong, S., Chae, J., Yun, H., & Lee, J., "A Steady Flow Model for the Differential Emission Measure in the Solar Quiet Region", 2001AGUSM..SH41B21B ADS
- Chae, J., Martin, S. F., Yun, H. S., et al., "Small Magnetic Bipoles Emerging in a Filament Channel", 2001ApJ...548..497C ADS
- Kim, J.-H., Yun, H. S., Lee, S., et al., "A Rapid Change in Magnetic Connectivity Observed Before Filament Eruption and Its Associated Flare", 2001ApJ...547L..85K ADS
- Denker, C., Spirock, T., Varsik, J. R., et al., "Dynamics of Quiet Sun Magnetic Fields", 2001ASPC...236..463D ADS
- Spirock, T., Denker, C., Chen, H., et al., "The Big Bear Solar Observatory's Digital Vector Magnetograph", 2001ASPC...236...65S ADS
- Bong, S.-C., Chae, J., & Yun, H. S., "Steady Flow Model of a Magnetic Flux Tube Constrained to Observed Differential Emission Measure", 2000JKAS...33...159B ADS
- Lee, C.-Y., Chae, J., & Wang, H., "Dynamical Characteristics of Small-Scale H $\alpha$  Upflow Events on the Quiet Sun", 2000ApJ...545.1124L ADS
- Chae, J., "The Magnetic Helicity Sign of Filament Chirality", 2000ApJ...540L.115C ADS
- Chae, J., Denker, C., Spirock, T. J., Wang, H., & Goode, P. R., "High-Resolution H $\alpha$  Observations of Proper Motion in NOAA 8668: Evidence for Filament Mass Injection by Chromospheric Reconnection", 2000SoPh...195..333C ADS
- Qiu, J., Wang, H., Chae, J., & Goode, P. R., "Extreme-Ultraviolet Flare Loop Emissions in an Eruptive Event", 2000SoPh...194..269Q ADS
- Chae, J., Goode, P. R., Spirock, T. J., et al., "Orientation of Emerging Bipoles in a Filament Channel", 2000SPD...31.0405C ADS
- Kim, J.-H., Yun, H. S., Lee, S., Chae, J., & Goode, P. R., "A Rapid Magnetic Connectivity Change Observed Before a Filament Eruption", 2000SPD...31.0267K ADS
- Lee, S., Yun, H. S., Kim, J.-H., et al., "Observational Evidence for Magnetic Dips in Solar Prominences", 2000SPD...31.0148L ADS
- Lee, H., Yun, H. S., & Chae, J., "Nonpotential Broadening of UV Lines Observed at the Limb of the Quiet Sun", 2000JKAS...33...57L ADS
- Chae, J., Wang, H., Qiu, J., Goode, P. R., & Wilhelm, K., "Active Region Loops Observed with SUMER on Board the SOHO", 2000ApJ...533..535C ADS
- Chae, J., Wang, H., Goode, P. R., Fludra, A., & Schühle, U., "Comparison of Transient Network Brightenings and Explosive Events in the Solar Transition Region", 2000ApJ...528L.119C ADS
- Qiu, J., Wang, H., Chae, J., & Goode, P. R., "Counter-streaming Mass Flow and Transient Brightening in Active Region Loops", 1999SoPh...190..153Q ADS
- Chae, J., "Non-Coplanar Magnetic Reconnection as a Magnetic Twist Origin", 1999JKAS...32..137C ADS
- Wang, H., Chae, J., & Lee, C. Y., "Small-Scale Dynamics on the Quiet Sun", 1999ESASP.446..695W ADS
- Wang, H., Chae, J., Qiu, J., Lee, C.-Y., & Goode, P. R., "Studies of Microflares and C5.2 flare of 27 September 1998", 1999SoPh...188..365W ADS
- Poland, A. I. & Chae, J., "Modeling of Solar Transition Region Outflows", 1999AAS...194.9312P ADS
- Wang, H., Qiu, J., Chae, J., Lee, C., & Goode, P., "Studies of Microflares and C5.2 Flare of September 27, 1998", 1999AAS...194.7907W ADS
- Chae, J., Qiu, J., Wang, H., & Goode, P. R., "Extreme-Ultraviolet Jets and H $\alpha$  Surges in Solar Microflares", 1999AAS...194.7906C ADS
- Qiu, J., Wang, H., Chae, J., Lee, C., & Goode, P. R., "Ultraviolet Flare Loop Systems in an Eruptive Event", 1999AAS...194.7904Q ADS
- Lee, C. Y., Wang, H., & Chae, J., "Dynamical Characteristics of H $\alpha$  Fine Features on the Quiet Sun", 1999AAS...194.2306L ADS
- Chae, J., Qiu, J., Wang, H., & Goode, P. R., "Extreme-Ultraviolet Jets and H $\alpha$  Surges in Solar Microflares", 1999ApJ...513L..75C ADS
- Woodard, M. F. & Chae, J., "Evidence for non-potential magnetic fields in the quiet Sun", 1999SoPh...184..239W ADS
- Chae, J., "Small-Scale Magnetic Reconnection in the Quiet Sun", 1999ASPC...183..375C ADS
- Chae, J., Yun, H. S., Sakurai, T., & Ichimoto, K., "Stray-light correction in magnetograph observations using the maximum entropy method", 1998SoPh...183..245C ADS
- Chae, J., Yun, H. S., Sakurai, T., & Ichimoto, K., "Stray-Light Effect on Magnetograph Observations", 1998SoPh...183..229C ADS
- Wang, H., Chae, J., Gurman, J. B., & Kucera, T. A., "Comparison of Prominences in H $\alpha$  and He II 304 Å", 1998SoPh...183...91W ADS
- Chae, J., Schühle, U., & Lemaire, P., "SUMER Measurements of Nonthermal Motions: Constraints on Coronal Heating Mechanisms", 1998ApJ...505..957C ADS
- Chae, J., Wang, H., Lee, C.-Y., Goode, P. R., & Schühle, U., "Chromospheric Upflow Events Associated with Transition Region Explosive Events", 1998ApJ...504L.123C ADS
- Yun, H. S., Chae, J. C., & Poland, A. J., "Dynamical Characteristics of the Quiet Transition Region: Spatial Correlation Studies of H I 931 and S VI 933 UV Lines", 1998JKAS...31...1Y ADS
- Chae, J., Wang, H., Lee, C.-Y., Goode, P. R., & Schühle, U., "Photospheric Magnetic Field Changes Associated with Transition Region Explosive Events", 1998ApJ...497L.109C ADS
- Chae, J., Yun, H. S., & Poland, A. I., "Temperature Dependence of Ultraviolet Line Average Doppler Shifts in the Quiet Sun", 1998ApJS...114..151C ADS
- Chae, J., Yun, H. S., & Poland, A. I., "Effects of Non-LTE Radiative Loss and Partial Ionization on the Structure of the Transition Region", 1997ApJ...480..817C ADS
- Lee, J., Chae, J. C., Yun, H. S., & Zirin, H., "Power Spectra of Solar Network and Non-Network Fields", 1997SoPh...171..269L ADS
- Lee, J., Chae, J. C., Yun, H. S., & Zirin, H., "The Effect of Seeing on Solar Magnetic Flux Measurements", 1997SoPh...171...35L ADS
- Chae, J.: 1996, Ph.D. thesis, - 1996PhDT.....80C ADS
- Sakurai, T. & Chae, J. C., "Maximum Energy of Force-Free Magnetic Fields", 1996mpsa.conf..579S ADS
- Sakurai, T., Ichimoto, K., Nishino, Y., et al., "Solar Flare Telescope at Mitaka", 1995PASJ...47...81S ADS
- Chae, J.-C. & Yun, H. S., "Maximum Entropy Method for Low Contrast Images", 1994JKAS...27..191C ADS
- Chae, J. C. & Yun, H. S., "Hydrodynamic Behaviors of Solar Spicules", 1988JKAS...21..105C ADS