

Bibliography from ADS file: cheung.bib  
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- Salvatelli, V., Neuberg, B., Dos Santos, L. F. G., et al.: 2022a, *ML pipeline for Solar Dynamics Observatory (SDO) data*, Zenodo 2022zndo...6954828S ADS
- Salvatelli, V., dos Santos, L. F. G., Bose, S., et al., “Exploring the Limits of Synthetic Creation of Solar EUV Images via Image-to-Image Translation”, 2022arXiv220809512S ADS
- Panesar, N. K., Zhukov, A., Berghmans, D., et al., “The Magnetic Origin of Solar Campfires: Observations by Solar Orbiter and SDO”, 2022cosp...44.2564P ADS
- Gosic, M., Katsukawa, Y., Bellot Rubio, L. R., et al., “Unipolar versus Bipolar Internetwork Flux Appearance”, 2022cosp...44.2513G ADS
- Afanasev, A., Fan, Y., Cheung, M., & Kazachenko, M., “Synergetic data-driven magnetofrictional and MHD simulations of an eruptive solar active region”, 2022cosp...44.2470A ADS
- Kazachenko, M., Fan, Y., Fisher, G., et al., “How could we use observations to constrain and validate data-driven models of solar eruptions?”, 2022cosp...44.2464K ADS
- Chintzoglou, G., Cheung, M., & Rempel, M., “Predicted appearance of Magnetic Flux Rope and Sheared Magnetic Arcade Structures before a Coronal Mass Ejection via three-dimensional radiative Magnetohydrodynamic Modeling”, 2022cosp...44.2406C ADS
- Cheung, M., “The Physics of Magnetic Flux Emergence”, 2022cosp...44.2403C ADS
- Jin, M., Nitta, N., Derosa, M., et al., “Coronal Dimming as a Proxy for Solar and Stellar Coronal Mass Ejections”, 2022cosp...44.1404J ADS
- Shultz, M. E., Casini, R., Cheung, M. C. M., et al., “Ultraviolet Spectropolarimetry With Polstar: Using Polstar to test Magnetospheric Mass-loss Quenching”, 2022arXiv220712970S ADS
- ud-Doula, A., Cheung, M. C. M., David-Uraz, A., et al., “Ultraviolet Spectropolarimetric Diagnostics of Hot Star Magnetospheres”, 2022arXiv220612838U ADS
- Upendran, V., Tigas, P., Ferdousi, B., et al., “Global Geomagnetic Perturbation Forecasting Using Deep Learning”, 2022SpWea...2003045U ADS
- Upendran, V., Tigas, P., Ferdousi, B., et al.: 2022b, *Vishal-Upendran/geoeffectivenet-1: DAGGER model*, Zenodo 2022zndo...6410499U ADS
- Jin, M., Cheung, M. C. M., DeRosa, M. L., Nitta, N. V., & Schrijver, C. J., “Coronal Mass Ejections and Dimmings: A Comparative Study Using MHD Simulations and SDO Observations”, 2022ApJ...928...154J ADS
- Mumford, S. J., Freij, N., Christe, S., et al.: 2022, *SunPy*, Zenodo 2022zndo...591887M ADS
- Higgins, R. E. L., Fouhey, D. F., Antiochos, S. K., et al., “SynthIA: A Synthetic Inversion Approximation for the Stokes Vector Fusing SDO and Hinode into a Virtual Observatory”, 2022ApJS...259...24H ADS
- Malanushenko, A., Cheung, M. C. M., DeForest, C. E., Klimchuk, J. A., & Rempel, M., “The Coronal Veil”, 2022ApJ...927...1M ADS
- Cheung, M. C. M., Martínez-Sykora, J., Testa, P., et al., “Probing the Physics of the Solar Atmosphere with the Multi-slit Solar Explorer (MUSE). II. Flares and Eruptions”, 2022ApJ...926...53C ADS
- De Pontieu, B., Testa, P., Martínez-Sykora, J., et al., “Probing the Physics of the Solar Atmosphere with the Multi-slit Solar Explorer (MUSE). I. Coronal Heating”, 2022ApJ...926...52D ADS
- Gošić, M., Bellot Rubio, L. R., Cheung, M. C. M., et al., “The Solar Internetwork. III. Unipolar versus Bipolar Flux Appearance”, 2022ApJ...925...188G ADS
- Mumford, S. J., Freij, N., Christe, S., et al.: 2021, *SunPy*, Zenodo 2021zndo...5751998M ADS
- Shultz, M. E., Casini, R., Cheung, M. C. M., et al., “Ultraviolet Spectropolarimetry With Polstar: Hot Star Magnetospheres”, 2021arXiv211106434S ADS
- Panesar, N. K., Tiwari, S. K., Berghmans, D., et al., “The Magnetic Origin of Solar Campfires”, 2021ApJ...921L...20P ADS
- Mumford, S. J., Freij, N., Christe, S., et al.: 2021, *SunPy*, Zenodo 2021zndo...5068086M ADS
- Caspi, A., Shih, A. Y., Panchapakesan, S., et al., “The CubeSat Imaging X-ray Solar Spectrometer (CubIXSS)”, 2021AAS...23821609C ADS
- Barnes, G., DeRosa, M., Jones, S., et al., “Are Potential Field Source Surface models from different magnetic maps sufficiently robust to track the evolution of the coronal magnetic topology?”, 2021AAS...23821308B ADS
- Toriumi, S., Airapetian, V., Hudson, H., et al., “Sun-as-a-star Spectral Irradiance Observations: Milestone For Characterizing The Stellar Active Regions”, 2021AAS...23820503T ADS
- Chintzoglou, G. & Cheung, M. C., “Homologous Explosive Activity Driven By The Collisional Shearing Mechanism”, 2021AAS...23812709C ADS
- Sun, X. & Cheung, M., “Non-neutralized Electric Current Of Active Regions Explained As A Projection Effect”, 2021AAS...23811308S ADS
- Mumford, S. J., Freij, N., Christe, S., et al.: 2021, *SunPy*, Zenodo 2021zndo...4762113M ADS
- Hayashi, K., Abbett, W. P., Cheung, M. C. M., & Fisher, G. H., “Coupling a Global Heliospheric Magnetohydrodynamic Model to a Magnetofrictional Model of the Low Corona”, 2021ApJS...254...1H ADS
- Dos Santos, L. F. G., Bose, S., Salvatelli, V., et al., “Multichannel autocalibration for the Atmospheric Imaging Assembly using machine learning”, 2021A&A...648A...53D ADS
- Mumford, S. J., Freij, N., Christe, S., et al.: 2021a, *SunPy*, Zenodo 2021zndo...4641821M ADS
- Mumford, S. J., Freij, N., Christe, S., et al.: 2021b, *SunPy*, Zenodo 2021zndo...4580466M ADS
- Toriumi, S., Airapetian, V. S., Hudson, H. S., et al., “Sun-as-a-star Multi-wavelength Observations: A Milestone for Characterization of Stellar Active Regions”, 2021csss.confE...46T ADS
- Mumford, S. J., Freij, N., Christe, S., et al.: 2021, *SunPy*, Zenodo 2021zndo...4555172M ADS
- Tigas, P., Bloch, T., Upendran, V., et al., “Global Earth Magnetic Field Modeling and Forecasting with Spherical Harmonics Decomposition”, 2021arXiv210201447T ADS
- Samanta, S., Tian, H., Chen, B., et al., “Plasma heating induced by tadpole-like downflows in the flaring solar corona”, 2021Innov...200083S ADS
- Mumford, S. J., Freij, N., Christe, S., et al.: 2021, *SunPy*, Zenodo 2021zndo...4421322M ADS
- De Pontieu, B., Lemen, J., Cheung, M., & Boerner, P., “Coronal observations with the Multi-Slit Solar Explorer (MUSE)”, 2021cosp...43E1803D ADS
- Kazachenko, M., Abbett, B., Liu, Y., et al., “The Coronal Global Evolutionary Model: Using HMI Vector Magnetogram and Doppler Data to Determine Coronal Magnetic Field Evolution”, 2021cosp...43E1785K ADS
- Rempel, M., Cheung, M., & Chintzoglou, G., “Flare simulations with the MURaM radiative MHD code”, 2021cosp...43E1772R ADS
- Barbier, L., Cheung, M., Thronson, H., et al., “Using artificial intelligence to augment science prioritization”, 2021cosp...43E1526B ADS
- Chintzoglou, G. & Cheung, M., “The Action of the Collisional Shearing Mechanism in Complex Emerging and Developing Active Regions Revealed by SDO and Hinode Observations and Data-Driven Modeling”, 2021cosp...43E.991C ADS
- Shirman, N. & Cheung, M., “Monitoring of Solar Soft X-ray Emission with NASA’s Solar Dynamics Observatory”, 2021cosp...43E.918S ADS
- Sun, X. & Cheung, M. C. M., “Non-Neutralized Electric Current of Active Regions Explained as a Projection Effect”, 2021SoPh...296...7S ADS
- Barnes, W. T., Cheung, M. C. M., Bobra, M. G., et al.: 2020a, *aiapy*, Zenodo 2020zndo...4315741B ADS
- Barnes, W. T., Cheung, M. C. M., Bobra, M. G., et al.: 2020b, *aiapy: A Python Package for Analyzing Solar EUV Image Data from AIA*, Zenodo 2020zndo...4274931B ADS
- Barnes, W., Cheung, M., Bobra, M., et al., “aiapy: A Python Package for Analyzing Solar EUV Image Data from AIA”, 2020JOSS...5.2801B ADS
- Galvez, R., Fouhey, D. F., Jin, M., et al., “Erratum: “A Machine-learning Data Set Prepared from the NASA Solar Dynamics Observatory Mission” (2019, ApJS, 242, 7)”, 2020ApJS...250...38G ADS
- Hoeksema, J. T., Abbett, W. P., Bercik, D. J., et al., “The Coronal Global Evolutionary Model: Using HMI Vector Magnetogram and Doppler Data to Determine Coronal Magnetic Field Evolution”, 2020ApJS...250...28H ADS
- Toriumi, S., Airapetian, V. S., Hudson, H. S., et al., “Sun-as-a-star Spectral Irradiance Observations of Transiting Active Regions”, 2020ApJ...902...36T ADS
- Upendran, V., Cheung, M. C. M., Hanasoge, S., & Krishnamurthi, G., “Solar Wind Prediction Using Deep Learning”, 2020SpWea...1802478U ADS
- Barnes, W. T., Cheung, M. C. M., Padmanabhan, N., et al.: 2020, *aiapy*, Zenodo 2020zndo...4016983B ADS
- Mumford, S. J., Freij, N., Christe, S., et al.: 2020, *SunPy*, Zenodo 2020zndo...3940415M ADS
- Fisher, G. H., Kazachenko, M. D., Welsch, B. T., et al., “The PDFISS Electric Field Inversion Software”, 2020ApJS...248...2F ADS
- Toriumi, S., Takasao, S., Cheung, M. C. M., et al., “Comparative Study of Data-driven Solar Coronal Field Models Using a Flux Emergence Simulation as a Ground-truth Data Set”, 2020ApJ...890...103T ADS
- Jin, M., Cheung, M. C. M., DeRosa, M. L., et al., “Coronal dimming as a proxy for stellar coronal mass ejections”, 2020IAUS...354...426J ADS
- De Pontieu, B., Martínez-Sykora, J., Testa, P., et al., “The Multi-slit Approach to Coronal Spectroscopy with the Multi-slit Solar Explorer (MUSE)”, 2020ApJ...888...3D ADS
- Neuberg, B., Bose, S., Salvatelli, V., et al., “Auto-Calibration of Remote Sensing Solar Telescopes with Deep Learning”, 2019arXiv191104008N ADS

- Salvatelli, V., Bose, S., Neuberg, B., et al., “Using U-Nets to Create High-Fidelity Virtual Observations of the Solar Corona”, 2019arXiv191104006S ADS
- Cheung, M. C. M., Rempel, M., Chintzoglou, G., et al., “A comprehensive three-dimensional radiative magnetohydrodynamic simulation of a solar flare”, 2019NatAs...3...160C ADS
- Björger, J. P., Leenaarts, J., Rempel, M., et al., “Three-dimensional modeling of chromospheric spectral lines in a simulated active region”, 2019A&A...631A...33B ADS
- Szenicer, A., Fouhey, D. F., Muñoz-Jaramillo, A., et al., “A deep learning virtual instrument for monitoring extreme UV solar spectral irradiance”, 2019SciA...5.6548S ADS
- Cheung, M. C. M., De Pontieu, B., Martínez-Sykora, J., et al., “Multi-component Decomposition of Astronomical Spectra by Compressed Sensing”, 2019ApJ...882...13C ADS
- Dhuri, D. B., Hanasoge, S. M., & Cheung, M. C. M., “Machine learning reveals systematic accumulation of electric current in lead-up to solar flares”, 2019PNAS...11611141D ADS
- Chintzoglou, G. & Cheung, M., “Measuring and Characterizing the Importance of Magnetic Flux Cancellation in Solar Active Regions during their Emergence Phase”, 2019AAS...23440202C ADS
- Cheung, M., Rempel, M. D., Chintzoglou, G., et al., “Radiative MHD Simulation of a Solar Flare”, 2019AAS...23431005C ADS
- Liu, N., Jing, J., Wang, H., et al., “Multi-instrument Comparative Study of Temperature, Number Density and Emission Measure during the Precursor Phase of a Solar Flare”, 2019AAS...23420407L ADS
- Cheung, M., De Pontieu, B., Martínez-Sykora, J., et al., “Multi-component Decomposition of Astronomical Spectra by Compressed Sensing”, 2019AAS...23411603C ADS
- Caspi, A., Seaton, D. B., Case, T., et al., “COHERENT: Studying the corona as a holistic environment”, 2019shin.confE.241C ADS
- Chintzoglou, G. & Cheung, M. C. M., “Detection of Strong Photospheric Downflows Accompanying Magnetic Cancellation in Collisional Polarity Inversion Lines of Flare- and CME-Productive Active Regions”, 2019shin.confE...38C ADS
- Galvez, R., Fouhey, D. F., Jin, M., et al., “A Machine-learning Data Set Prepared from the NASA Solar Dynamics Observatory Mission”, 2019ApJS...242...7G ADS
- Wright, P. J., Cheung, M. C. M., Thomas, R., et al.: 2019, *DeepEM: Demonstrating a Deep Learning Approach to DEM Inversion*, Zenodo 2019zndo...2587015W ADS
- Chintzoglou, G., Zhang, J., Cheung, M. C. M., & Kazachenko, M., “The Origin of Major Solar Activity: Collisional Shearing between Nonconjugated Polarities of Multiple Bipoles Emerging within Active Regions”, 2019ApJ...871...67C ADS
- Young, P. R., Tian, H., Peter, H., et al., “Solar Ultraviolet Bursts”, 2018SSRv...214...120Y ADS
- Norton, A. A., Duvall, T. L., J., Schou, J., et al., “HMI Data Corrected for Scattered Light Compared to Hinode SOT-SP Data”, 2018csc...confE.101N ADS
- Wright, P., Galvez, R., Szenicer, A., et al., “Solar EUV Spectral Irradiance by Deep Learning”, 2018csc...confE...90W ADS
- Jin, M., Liu, W., Cheung, M., et al., “Global Magnetohydrodynamics Simulation of EUV Waves and Shocks from the X8.2 Eruptive Flare on 2017 September 10”, 2018csc...confE...66J ADS
- Liu, W., Jin, M., Downs, C., et al., “A Truly Global Extreme Ultraviolet Wave from the SOL2017-09-10 X8.2+ Solar Flare-Coronal Mass Ejection”, 2018csc...confE...40L ADS
- Chintzoglou, G., Zhang, J., Cheung, M. C. M., & Kazachenko, M., “The Origin of Major Solar Activity - Collisional Shearing Between Nonconjugated Polarities of Different Bipoles Nested Within Active Regions”, 2018csc...confE...18C ADS
- James, A. W., Valori, G., Green, L. M., et al., “An Observationally Constrained Model of a Flux Rope that Formed in the Solar Corona”, 2018csc...confE...9J ADS
- Liu, W., Jin, M., Downs, C., et al., “A Truly Global Extreme Ultraviolet Wave from the SOL2017-09-10 X8.2+ Solar Flare-Coronal Mass Ejection”, 2018ApJ...864L...24L ADS
- Sun, X., Titov, V., Cheung, M., & Kazachenko, M., “Extended Kilogauss Bald Patches in the Super-Flaring Active Region 12673”, 2018shin.confE.209S ADS
- Jin, M., Liu, W., Cheung, M., et al., “Global Magnetohydrodynamics Simulation of EUV Waves and Shocks from the X8.2 Eruptive Flare on 2017 September 10”, 2018shin.confE.207J ADS
- Chintzoglou, G., Zhang, J., Cheung, M. C. M., & Kazachenko, M., “The Origin of Major Solar Activity - Magnetic Flux Cancellation due to Collisional Shearing Between Polarities of Different Bipoles Nested Within Active Regions”, 2018shin.confE.146C ADS
- Sun, X., Kazachenko, M., Titov, V., & Cheung, M., “Extended Kilogauss Bald Patches in the Super-Flaring Active Region 12673”, 2018cosp...42E3296S ADS
- Liu, W., Ofman, L., Nitta, N., et al., “The Best and Last of Solar Cycle 24 - The Global EUV Wave from the X8 Flare-CME Eruption on 2017-Sept-10: SDO/AIA Observations and Data-constrained Simulations”, 2018cosp...42E2051L ADS
- Cheung, M., “Data-inspired, Data-Constrained and Data-Driven Modeling of Solar Active Regions”, 2018cosp...42E.627C ADS
- Aschwanden, M. J., Scholkmann, F., Béthune, W., et al., “Order out of Randomness: Self-Organization Processes in Astrophysics”, 2018SSRv...214...55A ADS
- Su, Y., Veronig, A. M., Hannah, I. G., et al., “Determination of Differential Emission Measure from Solar Extreme Ultraviolet Images”, 2018ApJ...856L...17S ADS
- James, A. W., Valori, G., Green, L. M., et al., “An Observationally Constrained Model of a Flux Rope that Formed in the Solar Corona”, 2018ApJ...855L...16J ADS
- Cheung, M. C. M., van Driel-Gesztelyi, L., Martínez Pillet, V., & Thompson, M. J., “The Life Cycle of Active Region 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, 317–349 2018smf...book...317C ADS
- Dacie, S., van Driel-Gesztelyi, L., Démoulin, P., et al., “Field distribution of magnetograms from simulations of active region formation”, 2017A&A...606A...34D ADS
- Cheung, M. C. M., van Driel-Gesztelyi, L., Martínez Pillet, V., & Thompson, M. J., “The Life Cycle of Active Region Magnetic Fields”, 2017SSRv...210...317C ADS
- Jing, J., Liu, R., Cheung, M., et al., “Witnessing a Large-scale Slipping Magnetic Reconnection along a Dimming Channel during a Solar Flare”, 2017SPD...4840601J ADS
- Rempel, M. D., Cheung, M., Chintzoglou, G., et al., “Realistic radiative MHD simulation of a solar flare”, 2017SPD...4840001R ADS
- Cheung, M., “From Emergence to Eruption: The Physics and Diagnostics of Solar Active Regions”, 2017SPD...4830201C ADS
- Chintzoglou, G., Cheung, M., & Rempel, M. D., “3D Collision of Active Region-Sized Emerging Flux Tubes in the Solar Convection Zone and its Manifestation in the Photospheric Surface”, 2017SPD...4830004C ADS
- Norton, A. A., Duvall, T., Schou, J., Cheung, M., & Scherrer, P. H., “Stray Light Correction of HMI Data”, 2017SPD...4820705N ADS
- Jin, M., Cheung, M., DeRosa, M. L., Nitta, N., & Schrijver, K., “Coronal Mass Ejections and Dimmings: A Comparative Study using MHD Simulations and SDO Observations”, 2017SPD...4820602J ADS
- DeRosa, M. L., Cheung, M., Kazachenko, M. D., & Fisher, G. H., “Global Evolving Models of Photospheric Flux as Driven by Electric Fields”, 2017SPD...4811105D ADS
- Jing, J., Liu, R., Cheung, M. C. M., et al., “Witnessing a Large-scale Slipping Magnetic Reconnection along a Dimming Channel during a Solar Flare”, 2017ApJ...842L...18J ADS
- Toriumi, S., Katsukawa, Y., & Cheung, M. C. M., “Various Local Heating Events in the Earliest Phase of Flux Emergence”, 2017ApJ...836...63T ADS
- Chintzoglou, G., Cheung, M. C. M., & De Pontieu, B., “Investigation of the role of magnetic cancellation in triggering solar eruptions in NOAA AR12017”, 2016usc...confE.121C ADS
- Liu, W., Ofman, L., Downs, C., Cheung, M., & De Pontieu, B., “Flare-associated Fast-mode Coronal Wave Trains Detected by SDO/AIA: Recent Observational Advances”, 2016usc...confE.107L ADS
- Norton, A. A., Duvall, T. L., Schou, J., Cheung, M. C. M., & Scherrer, P. H., “HMI Data Corrected for Stray Light Now Available”, 2016usc...confE...95N ADS
- Rempel, M., Cheung, M. C. M., & HGCR Team, “3D MHD simulation of a Solar Flare”, 2016usc...confE...4R ADS
- Jin, M., Schrijver, K., Cheung, M., et al., “a Numerical Study of Long-Range Magnetic Impacts during Coronal Mass Ejections”, 2016shin.confE...38J ADS
- Rempel, M. D. & Cheung, M., “Coronal extension of the MURaM radiative MHD code: From quiet sun to flare simulations”, 2016SPD...4720803R ADS
- Cheung, M., Rempel, M. D., Martínez-Sykora, J., et al., “Physics & Diagnostics of the Drivers of Solar Eruptions”, 2016SPD...47.0607C ADS
- Malanushenko, A., Rempel, M., & Cheung, M., “Distortions of Magnetic Flux Tubes in the Presence of Electric Currents”, 2016SPD...47.0322M ADS
- Jin, M., Schrijver, C. J., Cheung, M. C. M., et al., “A Numerical Study of Long-range Magnetic Impacts during Coronal Mass Ejections”, 2016ApJ...820...16J ADS
- Martínez-Sykora, J., Moreno-Insertis, F., & Cheung, M. C. M., “Multi-parametric Study of Rising 3D Buoyant Flux Tubes in an Adiabatic Stratification Using AMR”, 2015ApJ...814...2M ADS

- Takasao, S., Fan, Y., Cheung, M. C. M., & Shibata, K., “Numerical Study on the Emergence of Kinked Flux Tube for Understanding of Possible Origin of  $\delta$ -spot Regions”, 2015ApJ...813..112T ADS
- Toriumi, S., Cheung, M. C. M., & Katsukawa, Y., “Light Bridge in a Developing Active Region. II. Numerical Simulation of Flux Emergence and Light Bridge Formation”, 2015ApJ...811..138T ADS
- Toriumi, S., Katsukawa, Y., & Cheung, M. C. M., “Light Bridge in a Developing Active Region. I. Observation of Light Bridge and its Dynamic Activity Phenomena”, 2015ApJ...811..137T ADS
- DeRosa, M. & Cheung, M., “Evolving Models of Surface and Coronal Activity of Sun-Like Stars”, 2015IAUGA...2257506D ADS
- Cheung, M., “Magnetic Flux Emergence in the Solar Atmosphere”, 2015IAUGA...2255821C ADS
- Cheung, M. C. M., “Physics and Diagnostics of the Drivers of Solar Eruptions”, 2015shin.confE...43C ADS
- Cheung, M. C. M., Boerner, P., Schrijver, C. J., et al., “Thermal Diagnostics with the Atmospheric Imaging Assembly on board the Solar Dynamics Observatory: A Validated Method for Differential Emission Measure Inversions”, 2015ApJ...807..143C ADS
- Fisher, G. H., Abbett, W. P., Bercik, D. J., et al., “The Coronal Global Evolutionary Model: Using HMI Vector Magnetogram and Doppler Data to Model the Buildup of Free Magnetic Energy in the Solar Corona”, 2015SpWea...13..369F ADS
- Chen, F., Peter, H., Bingert, S., & Cheung, M. C. M., “Magnetic jam in the corona of the Sun”, 2015NatPh...11..492C ADS
- Welsch, B. T., Cheung, M. C., Fisher, G. H., Kazachenko, M. D., & Sun, X., “The Coronal Global Evolutionary Model (CGEM): Toward Routine, Time-Dependent, Data-Driven Modeling of the Active Corona”, 2015TESS...131106W ADS
- Cheung, M. C., “Thermal Diagnostics of Reconnection Outflows with SDO/AIA”, 2015TESS...110406C ADS
- Cheung, M. C. M., De Pontieu, B., Tarbell, T. D., et al., “Homologous Helical Jets: Observations By IRIS, SDO, and Hinode and Magnetic Modeling With Data-Driven Simulations”, 2015ApJ...801..83C ADS
- De Pontieu, B., Title, A. M., Lemen, J. R., et al., “The Interface Region Imaging Spectrograph (IRIS)”, 2014SoPh...289.2733D ADS
- Cheung, M. C. M. & Isobe, H., “Flux Emergence (Theory)”, 2014LRSP...11....3C ADS
- Cheung, M. C. M., “From Emergence to Eruption: Challenges and Opportunities in Data-Driven Modeling of Solar Active Regions”, 2014shin.confE...5C ADS
- Cheung, M., Boerner, P., & Testa, P., “Thermal Diagnostics with SDO/AIA: A new method and application to Eruptive Active Regions”, 2014AAS...22432322C ADS
- Tian, H., DeLuca, E., Reeves, K. K., et al., “High-resolution Observations of the Shock Wave Behavior for Sunspot Oscillations with the Interface Region Imaging Spectrograph”, 2014ApJ...786..137T ADS
- Rempel, M. & Cheung, M. C. M., “Numerical Simulations of Active Region Scale Flux Emergence: From Spot Formation to Decay”, 2014ApJ...785...90R ADS
- Chen, F., Peter, H., Bingert, S., & Cheung, M. C. M., “A model for the formation of the active region corona driven by magnetic flux emergence”, 2014A&A...564A..12C ADS
- Cheung, M., Testa, P., & Boerner, P., “Thermal Diagnostics with SDO/AIA: A new method and application to Eruptive Active Regions”, 2014cosp...40E.535C ADS
- Harra, L. K., Matthews, S., Culhane, J. L., et al., “The Location of Non-thermal Velocity in the Early Phases of Large Flares-Revealing Pre-eruption Flux Ropes”, 2013ApJ...774..122H ADS
- Hurlburt, N. E. & Cheung, M., “Illusions in solar photosphere”, 2013SPD...4440306H ADS
- Fleck, B., Centeno, R., Cheung, M., et al., “On the Effects of the SDO Orbital Motion on the HMI Vector Magnetic Field Measurements”, 2013enss.confE.145F ADS
- Cheung, M. C. M., Title, A. M., & Boerner, P., “The Coronal Mass Source for Post-Eruption Arcade Loops”, 2013enss.confE.113C ADS
- Welsch, B. T., Kazachenko, M., Fisher, G. H., et al., “Photospheric Drivers of Coronal Evolution”, 2013enss.confE.108W ADS
- Norton, A. A., Duvall, T., Schou, J., & Cheung, M., “Stray Light Correction for HMI Data”, 2013enss.confE...95N ADS
- Chen, F., Bingert, S., Peter, H., et al., “Coupled model for the formation of an active region corona”, 2013enss.confE...21C ADS
- Cheung, M. & Title, A. M., “It’s not raining frogs. It’s raining tadpoles!”, 2012AGUFMSH51A2195C ADS
- Cheung, M. C. M. & DeRosa, M. L., “A Method for Data-driven Simulations of Evolving Solar Active Regions”, 2012ApJ...757..147C ADS
- Vieira, L. E. A., Norton, A., Dudok de Wit, T., et al., “How the inclination of Earth’s orbit affects incoming solar irradiance”, 2012GeoRL...3916104V ADS
- Fisher, G. H., Cheung, M., DeRosa, M., et al., “Using Electric Fields to drive simulations of the solar coronal magnetic field”, 2012shin.confE...47F ADS
- Cheung, M. C. M. & Cameron, R. H., “Magnetohydrodynamics of the Weakly Ionized Solar Photosphere”, 2012ApJ...750....6C ADS
- DeRosa, M. L. & Cheung, M., “Topology of Coronal Fields from Evolving Magnetofrictional Models”, 2012AAS...22041104D ADS
- Fleck, B., Hayashi, K., Rezaei, R., et al., “On The Magnetic-Field Diagnostics Potential of SDO/HMI”, 2012AAS...22020701F ADS
- Fleck, B., Hayashi, K., Rezaei, R., et al., “On the Magnetic-Field Diagnostics Potential of SDO/HMI”, 2012decs.confE.104F ADS
- Cheung, M. C. M. & DeRosa, M. L., “Data-Driven Modeling of the Evolution of Active Regions and Coronal Holes”, 2012decs.confE...83C ADS
- Hurlburt, N., Cheung, M., Schrijver, C., et al., “Heliophysics Event Knowledgebase for the Solar Dynamics Observatory (SDO) and Beyond”, 2012SoPh...275...67H ADS
- Somani, A., Hurlburt, N. E., Schrijver, C. J., et al., “Data Discovery and Access via the Heliophysics Events Knowledgebase (HEK)”, 2011AGUFMSM21A1989S ADS
- Rempel, M., Cheung, M., Birch, A. C., & Braun, D. C., “Numerical simulations of the subsurface structure of sunspots”, 2011AGUFMSH52B..02R ADS
- Cheung, M. & DeRosa, M. L., “Data-driven Simulations of Evolving Active Regions”, 2011AGUFMSH33C..04C ADS
- Cheung, M. C. M. & Rempel, M., “Mechanisms of sunspot formation”, 2011sdmi.confE...34C ADS
- Ballou, C., Cheung, M., Zita, E. J., & Smith, C., “Waves and oscillations in the solar atmosphere”, 2010APS...NWS.D1006B ADS
- Cheung, M. C. M., Rempel, M., Title, A. M., & Schüssler, M., “Simulation of the Formation of a Solar Active Region”, 2010ApJ...720..233C ADS
- Slater, G. L., Cheung, M., Hurlburt, N., et al., “The Heliophysics Event Knowledgebase for the Solar Dynamics Observatory - A User’s Perspective”, 2010AAS...21641505S ADS
- Hurlburt, N. E., Cheung, M., Schrijver, C., et al., “An Introduction to the Heliophysics Event Knowledgebase”, 2010AAS...21640222H ADS
- Hurlburt, N., Schrijver, C., & Cheung, M., “An Introduction to the Heliophysics Event Knowledgebase for SDO”, 2010cosp...38.2879H ADS
- Hagenaar, M. & Cheung, M., “Magnetic Flux Emergence on Different Scales”, 2009ASPC...415..167H ADS
- Cheung, M., Schüssler, M., Tarbell, T. D., & Title, A. M., “Solar Surface Emerging Flux Regions: A Comparative Study of Radiative MHD Modeling and Hinode SOT Observations”, 2009ASPC...415...79C ADS
- “The Second Hinode Science Meeting: Beyond Discovery-Toward Understanding”, 2009ASPC...415....L ADS
- Yelles Chaouche, L., Cheung, M. C. M., Solanki, S. K., Schüssler, M., & Lagg, A., “Simulation of a flux emergence event and comparison with observations by Hinode”, 2009A&A...507L..53Y ADS
- Cheung, M. & De Rosa, M., “Interaction between Emerging Magnetic Flux and The Ambient Solar Coronal Field”, 2009SPD...40.3103C ADS
- De Rosa, M. L., Schrijver, C. J., Barnes, G., et al., “Nonlinear Force-Free Magnetic Field Modeling of AR 10953: A Critical Assessment”, 2009SPD...40.3102D ADS
- Hurlburt, N. E., Cheung, M., Schrijver, K., & HEK development Team, “The Heliophysics Event Knowledgebase for the Solar Dynamics Observatory”, 2009SPD...40.1511H ADS
- De Rosa, M. L., Schrijver, C. J., Barnes, G., et al., “A Critical Assessment of Nonlinear Force-Free Field Modeling of the Solar Corona for Active Region 10953”, 2009ApJ...696.1780D ADS
- De Rosa, M. L., Schrijver, C. J., Barnes, G., et al., “Nonlinear Force-Free Magnetic Field Modeling of the Solar Corona: A Critical Assessment”, 2008AGUFMSH41A1604D ADS
- Hurlburt, N., Cheung, M., & Bose, P., “A Distributed Processing and Analysis System for Heliophysical Events”, 2008AGUFMSA53A1580H ADS
- Cheung, M. C. M., Schüssler, M., Tarbell, T. D., & Title, A. M., “Solar Surface Emerging Flux Regions: A Comparative Study of Radiative MHD Modeling and Hinode SOT Observations”, 2008ApJ...687.1373C ADS
- Hagenaar, H. & Cheung, M., “Magnetic Flux Emergence on Different Scales”, 2008ESPM...12.2.53H ADS
- Cheung, M. C., “On resolving the 180 deg ambiguity for a temporal sequence of vector magnetograms”, 2008AGUSMSP51D..04C ADS
- Hurlburt, N., Freeland, S., Cheung, M., & Schrijver, C., “The Atmospheric Imaging Array Feature and Event System (AFES) for SDO”, 2008AGUSMSM21A..07H ADS
- Title, A. & Cheung, M., “Patterns of Flux Emergence”, 2008AGUSMSH54A..01T ADS
- Cheung, M. C. M., Schüssler, M., & Moreno-Insertis, F., “Magnetic Flux Emergence in the Solar Photosphere”, 2008ASPC...384..181C ADS
- Cheung, M. C., Schüssler, M., Moreno-Insertis, F., & Tarbell, T. D., “Photospheric Magnetic Flux Emergence: A comparative study between Hinode/SOT Observations and MHD simulations”, 2007AGUFMSH53A1073C ADS

- Hurlburt, N., Freeland, S., Cheung, M., & Bose, P., “*The Collaborative Helio- physics Observatory*”, 2007AGUFM51A0256H [ADS](#)
- Cheung, M., Schüssler, M., Moreno-Insertis, F., Tarbell, T., & SOT Team, “*Magnetic Flux Emergence In Granular Convection: Radiative MHD Simulations And Hinode SOT Observations*”, 2007AAS...210.9425C [ADS](#)
- Schrijver, C. J., Hurlburt, N. E., Cheung, M. C., et al., “*Helio- informatics: Preparing For The Future Of Heliophysics Research.*”, 2007AAS...210.2514S [ADS](#)
- Cheung, M. C. M., Schüssler, M., & Moreno-Insertis, F., “*Magnetic flux emer- gence in granular convection: radiative MHD simulations and observational signatures*”, 2007A&A...467..703C [ADS](#)
- Cheung, M. C. M., Schüssler, M., & Moreno-Insertis, F., “*The origin of the reversed granulation in the solar photosphere*”, 2007A&A...461.1163C [ADS](#)
- Cheung, M. C. M., Schüssler, M., & Moreno-Insertis, F., “*Flux Emergence at the Photosphere*”, 2006ASPC...354...97C [ADS](#)
- Yelles Chaouche, L., Cheung, M., Lagg, A., & Solanki, S., “*Flux Emergence In The Solar Photosphere - Diagnostics Based On 3-D Rradiation-MHD Simu- lations*”, 2006IAUJD...3E..75Y [ADS](#)
- Cheung, M. C. M., Moreno-Insertis, F., & Schüssler, M., “*Moving magnetic tubes: fragmentation, vortex streets and the limit of the approximation of thin flux tubes*”, 2006A&A...451..303C [ADS](#)
- Yelles Chaouche, L., Cheung, M., Lagg, A., & Solanki, S., “*Diagnostics of a Simulated Flux Tube Emergence*”, 2005ESASP.600E..74Y [ADS](#)
- Cheung, M., Schüssler, M., & Moreno-Insertis, F., “*D Magneto-Convection and Flux Emergence in the Photosphere*”, 2005ESASP.596E..54C [ADS](#)
- Caswell, J. L., McClure-Griffiths, N. M., & Cheung, M. C. M., “*Super- nova remnant G292.2-0.5, its pulsar, and the Galactic magnetic field*”, 2004MNRAS.352.1405C [ADS](#)