

**Bibliography from ADS file: welsch.bib**  
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- Rempel, E. L., Chertovskih, R., Davletshina, K. R., et al., “Reconstruction of Photospheric Velocity Fields from Highly Corrupted Data”, 2022ApJ...933...2R ADS
- Kazachenko, M. D., Albelo-Corchado, M. F., Tamburri, C. A., & Welsch, B. T., “Invited Review: Short-term Variability with the Observations from the Helioseismic and Magnetic Imager (HMI) Onboard the Solar Dynamics Observatory (SDO): Insights into Flare Magnetism”, 2022SoPh...297...59K ADS
- Kazachenko, M. D., Lynch, B. J., Savcheva, A., Sun, X., & Welsch, B. T., “Toward Improved Understanding of Magnetic Fields Participating in Solar Flares: Statistical Analysis of Magnetic Fields within Flare Ribbons”, 2022ApJ...926...56K ADS
- Lumme, E., Pomoell, J., Price, D. J., et al., “Data-driven, time-dependent modeling of pre-eruptive coronal magnetic field configuration at the periphery of NOAA AR 11726”, 2022A&A...658A.200L ADS
- Kazachenko, M., Lynch, B., Savcheva, A., & Welsch, B., “Toward Improved Understanding of Magnetic Fields Participating in Solar Flares: Statistical Analysis of Magnetic Field within Flare Ribbons”, 2021AGUFM545B2378K ADS
- Rast, M. P., Bello González, N., Bellot Rubio, L., et al., “Critical Science Plan for the Daniel K. Inouye Solar Telescope (DKIST)”, 2021SoPh...296...70R ADS
- Norton, A. A., Stutz, R. B., & Welsch, B. T., “Oscillations observed in umbra, plage, quiet-Sun and the polarity inversion line of active region 11158 using Helioseismic Magnetic Imager/Solar Dynamics Observatory data”, 2021RSPTA...37900175N 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
- Sun, X., Gibson, S., Welsch, B., & Titov, V., “Extended, Kilogauss Bald Patches in the Super-Flaring Solar Active Region 12673”, 2021cosp...43E1730S 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
- Fisher, G. H., Kazachenko, M. D., Welsch, B. T., et al., “The PDFISS Electric Field Inversion Software”, 2020ApJS...248...2F ADS
- Fisher, G. H., Kazachenko, M. D., Welsch, B. T., & Lumme, E.: 2020b, *The PDFISS Electric Field Inversion Software*, Zenodo 2020zndo...3711571F ADS
- Fisher, G. H. & Welsch, B. T.: 2020, *The FLCT local correlation tracking software*, Zenodo 2020zndo...3711569F ADS
- Kazachenko, M., Lynch, B. J., Welsch, B. T., & Sun, X., “Statistical Analysis of Solar Flare Ribbon Properties Using Observations from Solar Dynamics Observatory”, 2019AGUFM512B...03K ADS
- Lumme, E., Kazachenko, M. D., Fisher, G. H., et al., “Probing the Effect of Cadence on the Estimates of Photospheric Energy and Helicity Injections in Eruptive Active Region NOAA AR 11158”, 2019SoPh...294...84L ADS
- Welsch, B., “Photospheric Flows & DKIST: Resolving Both Smaller Scales And Open Questions”, 2019AAS...23422602W ADS
- Welsch, B., Hencheck, M., Kazachenko, M. D., & Ginsburg, D., “What is the role of flare ribbon structure on CME speeds?”, 2019AAS...23411201W ADS
- Welsch, B. T., “Flux Accretion and Coronal Mass Ejection Dynamics”, 2018shin.confE.190W ADS
- Welsch, B. T. & CGEM Team, “Using Photospheric Vector Magnetograms to Drive Coronal Field Models”, 2018shin.confE...89W ADS
- Welsch, B. T., “Flux Accretion and Coronal Mass Ejection Dynamics”, 2018SoPh...293...113W ADS
- Ginsburg, D. E. & Welsch, B., “What are the Roles of Magnetic Field and Flare Ribbon Structure on CME Dynamics?”, 2018tess.conf10420G ADS
- Welsch, B. T., “Flux Accretion and Coronal Mass Ejection Dynamics”, 2018tess.conf10414W ADS
- Welsch, B., “Flux Accretion and Coronal Mass Ejection Dynamics”, 2017SPD...4820607W ADS
- Kazachenko, M. D., Welsch, B., Lynch, B. J., & Sun, X., “A Database of Flare Ribbon Properties From Solar Dynamics Observatory: Reconnection Flux”, 2017SPD...4810824K ADS
- Kazachenko, M. D., Lynch, B. J., Welsch, B. T., & Sun, X., “A Database of Flare Ribbon Properties from the Solar Dynamics Observatory. I. Reconnection Flux”, 2017ApJ...845...49K ADS
- Kazachenko, M. D., Welsch, B. T., Lynch, B., & Sun, X., “A Database of Flare Ribbon Properties From Solar Dynamics Observatory: Reconnection Flux”, 2017shin.confE...35K ADS
- Hammer, J. E., Ishii, H. A., Bradley, J. P., et al., “Advanced Materials Characterization of P-Rich and P-Poor Regions Within Single-Crystal Olivine”, 2017LPI...48.2375H ADS
- Hammer, J. E., Shea, T., Taylor, G. J., Hellebrand, E., & Welsch, B., “Magmatic Cooling History of Troctolite 76535 Constrained by Diffusion Modeling of Olivine and Plagioclase Compositional Zonation”, 2017LPI...48.1274H ADS
- Deng, M. & Welsch, B. T., “The Roles of Reconnected Flux and Overlying Fields in CME Speeds”, 2017SoPh...292...17D ADS
- Kazachenko, M., Lynch, B. J., & Welsch, B. T., “A Database of Flare Ribbons Observed By Solar Dynamics Observatory”, 2016AGUFM534A...03K ADS
- Kazachenko, M., Fisher, G. H., Bercik, D. J., Welsch, B. T., & Lynch, B. J., “The Circulation and Closure of Electric Currents in the Solar Atmosphere”, 2016AGUFM531B2579K ADS
- Welsch, B. T. & Fisher, G. H., “Deriving Potential Coronal Magnetic Fields from Vector Magnetograms”, 2016SoPh...291.1681W ADS
- Kazachenko, M. D., Lynch, B. J., & Welsch, B. T., “Using Two-Ribbon Flare Data Set to Constrain Flare Properties”, 2016shin.confE.118K ADS
- Kazachenko, M. D., Lynch, B. J., & Welsch, B., “Using Two-Ribbon Flare Observations and MHD Simulations to Constrain Flare Properties”, 2016SPD...47.0612K ADS
- Welsch, B., Kazachenko, M. D., & Hencheck, M., “Revisiting Ribbon Fluxes and CME Speeds”, 2016SPD...47.0338W ADS
- Fisher, G. H., Bercik, D., Welsch, B., Kazachenko, M. D., & CGEM Team, “A Potential Field Model for Spherical Sub-domains”, 2016SPD...47.0308F ADS
- Fu, Y. & Welsch, B. T., “Active Region Emergence and Remote Flares”, 2016SoPh...291...383F ADS
- Kazachenko, M., Lynch, B. J., & Welsch, B. T., “Data Set of Flare-Ribbon Reconnected Magnetic Fluxes: A Critical Tool for Understanding Solar Flares and Eruptions”, 2015AGUFM523D...08K ADS
- Kazachenko, M. D., Fisher, G. H., Welsch, B. T., Liu, Y., & Sun, X., “Photospheric Electric Fields and Energy Fluxes in the Eruptive Active Region NOAA 11158”, 2015ApJ...811...16K ADS
- Kazachenko, M. D., Lynch, B. J., & Welsch, B. T., “A Data Set of Flare-Ribbon Magnetic Fluxes: A Critical Tool for Understanding Solar Flares & Eruptions”, 2015shin.confE...13K 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
- 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
- Li, Y., Lynch, B., Sun, X., et al., “On the Relationship between Solar Magnetic Forces and CME Momenta”, 2015TESS...130219L ADS
- Welsch, B. T., “Photospheric Magnetic Energy Input and the Atmospheric Response”, 2015TESS...111105W ADS
- Welsch, B. T., “The photospheric Poynting flux and coronal heating”, 2015PASJ...67...18W ADS
- Sorriso-Valvo, L., De Vita, G., Kazachenko, M. D., et al., “Sign Singularity and Flares in Solar Active Region NOAA 11158”, 2015ApJ...801...36S ADS
- Li, Y., Lynch, B. J., Welsch, B. T., & Bercik, D. J., “The relationship between CME momenta and magnetic forces”, 2014AGUFM543B4206L ADS
- Fu, Y. & Welsch, B. T., “Do New Solar Active Regions Trigger Flares in Existing Regions?”, 2014AGUFM541B4133F ADS
- Welsch, B. T., “The Photospheric Poynting Flux and Coronal Heating”, 2014AGUFM531C...08W ADS
- Kazachenko, M. D., Fisher, G. H., & Welsch, B. T., “A Comprehensive Method of Estimating Electric Fields from Vector Magnetic Field and Doppler Measurements”, 2014ApJ...795...17K ADS
- Kazachenko, M. D., Canfield, R. C., Fisher, G. H., Hudson, H. S., & Welsch, B., “Relationship between the photospheric Poynting flux and the active region luminosity”, 2014AAS...22412349K ADS
- Welsch, B., “The Photospheric Poynting Flux and Coronal Heating”, 2014AAS...22410305W ADS
- Chian, A. C. L., Rempel, E. L., Aulanier, G., et al., “Detection of Coherent Structures in Photospheric Turbulent Flows”, 2014ApJ...786...51C ADS
- Yeates, A. R., Bianchi, F., Welsch, B. T., & Bushby, P. J., “The coronal energy input from magnetic braiding”, 2014A&A...564A.131Y ADS
- Kazachenko, M., Fisher, G., & Welsch, B., “Obtaining Photospheric Electric Field Maps and Poynting Fluxes from vector magnetograms and Doppler data: Tests and Data Driving Applications”, 2014cosp...40E1439K ADS
- Lamb, D. A., Howard, T. A., DeForest, C. E., Parnell, C. E., & Welsch, B. T., “Solar Magnetic Tracking. IV. The Death of Magnetic Features”, 2013ApJ...774...127L ADS

- Welsch, B., "Deriving Potential Fields from Vector Magnetograms", 2013SPD...44...118W ADS
- Welsch, B. T., Kazachenko, M., Fisher, G. H., et al., "Photospheric Drivers of Coronal Evolution", 2013enss.confE.108W ADS
- Jacob, S. R., Hammer, J. E., & Welsch, B., "Interpreting Magmatic Processes from Clinopyroxene in Terrestrial Ankarinite Lavas: A Procedural Blueprint for the Nakhilites?", 2013LPI...44.3084J ADS
- First, E., Hammer, J., & Welsch, B., "Thermal History of Yamato 980459: Constraints from Mineralogy, Crystal Morphology, and Dynamic Cooling Experiments", 2013LPI...44.2943F ADS
- Welsch, B. T., Fisher, G. H., & Sun, X., "A Magnetic Calibration of Photospheric Doppler Velocities", 2013ApJ...765...98W ADS
- Chian, A. C., Rempel, E. L., Welsch, B. T., & Yeates, A. R., "Lagrangian coherent structures in the solar magnetoconvective turbulence", 2012AGUFMSH51B2244C ADS
- Welsch, B. T. & Fisher, G. H., "Evolution of the Photospheric Vector Magnetic Field in HMI Data", 2012AGUFMSH13A2243W ADS
- Emslie, A. G., Dennis, B. R., Shih, A. Y., et al., "Global Energetics of Thirty-eight Large Solar Eruptive Events", 2012ApJ...759...71E ADS
- Suzuki, J., Welsch, B. T., & Li, Y., "Are Decaying Magnetic Fields Above Active Regions Related to Coronal Mass Ejection Onset?", 2012ApJ...758...22S 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
- Kazachenko, M. D., Fisher, G. H., & Welsch, B. T., "The evolution of the electric field and the Poynting and Helicity Fluxes in NOAA AR 11158", 2012shin.confE..44K ADS
- Welsch, B. T., "New Directions for Improving Estimating Electric Fields from Magnetograms", 2012shin.confE..43W ADS
- Liu, Y., Scherrer, P. H., Hoeksema, J. T., et al., "A First Look at Magnetic Field Data Products from SDO/HMP", 2012ASPC...455...337L ADS
- Dennis, B. R., Emslie, A. G., Chamberlin, P. C., et al., "Global Energetics of Large Solar Eruptive Events", 2012AAS...22041002D ADS
- Fisher, G. H., Bercik, D. J., Welsch, B. T., & Hudson, H. S., "Global Forces in Eruptive Solar Flares: The Lorentz Force Acting on the Solar Atmosphere and the Solar Interior", 2012AAS...22020440F ADS
- Kazachenko, M., Fisher, G. H., & Welsch, B. T., "Finding Electric Fields, Poynting and Helicity Fluxes from Vector Magnetograms", 2012AAS...22020210K ADS
- Kazachenko, M., Fisher, G. H., & Welsch, B. T., "Determining electric fields from vector magnetograms.", 2012decs.confE..98K ADS
- Fisher, G. H., Welsch, B. T., & Abbett, W. P., "Electric Fields and Poynting Fluxes from Vector Magnetograms", 2012decs.confE..75F ADS
- Fisher, G. H., Welsch, B. T., & Abbett, W. P., "Can We Determine Electric Fields and Poynting Fluxes from Vector Magnetograms and Doppler Measurements?", 2012SoPh..277...153F ADS
- Fisher, G. H., Bercik, D. J., Welsch, B. T., & Hudson, H. S., "Global Forces in Eruptive Solar Flares: The Lorentz Force Acting on the Solar Atmosphere and the Solar Interior", 2012SoPh..277...59F ADS
- Welsch, B. T., Kusano, K., Yamamoto, T. T., & Muglach, K., "Decorrelation Times of Photospheric Fields and Flows", 2012ApJ...747...130W ADS
- Yeates, A. R., Hornig, G., & Welsch, B. T., "Lagrangian coherent structures in photospheric flows and their implications for coronal magnetic structure", 2012A&A...539A...1Y ADS
- Welsch, B. T., Christe, S., & McTiernan, J. M., "Photospheric Magnetic Evolution in the WHI Active Regions", 2011SoPh..274...131W ADS
- Webb, D. F., Cremades, H., Sterling, A. C., et al., "The Global Context of Solar Activity During the Whole Heliosphere Interval Campaign", 2011SoPh..274...57W ADS
- Thompson, B. J., Gibson, S. E., Schroeder, P. C., et al., "A Snapshot of the Sun Near Solar Minimum: The Whole Heliosphere Interval", 2011SoPh..274...29T ADS
- Welsch, B. T., Abbett, W. P., & Fisher, G. H., "Roles for Data Assimilation in Studying Solar Flares & CMEs", 2011AGUFMSH54A..05W ADS
- Fisher, G. H., Welsch, B. T., & Abbett, W. P., "Can we Determine Electric Fields and Poynting Fluxes from Vector Magnetograms and Doppler Measurements?", 2011AGUFMSH33C..07F ADS
- Welsch, B. T., Kusano, K., Yamamoto, T. T., & Fisher, G. H., "Decorrelation Times of Photospheric Fields and Flows", 2011AGUFMSH31A1989W ADS
- Suzuki, J., Welsch, B. T., & Li, Y., "Are Decaying Magnetic Fields Above Active Regions Related to CME Onset?", 2011AGUFMSH23A1938S ADS
- Li, Y., Welsch, B. T., Lynch, B. J., Luhmann, J. G., & Fisher, G. H., "Evolution and Activity of Solar Active Regions with STEREO Full Sun Imaging", 2011AGUFMSH13A1927L ADS
- Welsch, B. T., "Understanding Links Between the Interior and Atmosphere", 2011sdmi.confE..11W ADS
- Fisher, G. H., Bercik, D. J., Welsch, B. T., & Hudson, H. S., "Momentum Balance in Eruptive Solar Flares: The Lorentz Force Acting on the Solar Atmosphere and the Solar Interior", 2011sdmi.confE..9F ADS
- Fisher, G., Welsch, B., & Abbett, W. P., "Can We Determine Electric Fields and Poynting Fluxes from Vector Magnetograms and Doppler Measurements?", 2011SPD...42.1717F ADS
- Welsch, B., Fisher, G., & Sun, X., "Understanding the Physics of Flux Cancellation", 2011SPD...42.1715W ADS
- Li, Y., Welsch, B. T., Lynch, B. J., Fisher, G. H., & Luhmann, J. G., "Magnetic Evolution for Recurrent Intense Flares and Extremely Fast CMEs", 2010AGUFMSH43A1812L ADS
- Lamb, D. A., DeForest, C. E., Hagenaar, H. J., Parnell, C. E., & Welsch, B. T., "Solar Magnetic Tracking. III. Apparent Unipolar Flux Emergence in High-resolution Observations", 2010ApJ...720.1405L ADS
- Li, Y., Lynch, B. J., Welsch, B. T., et al., "Sequential Coronal Mass Ejections from AR8038 in May 1997", 2010SoPh..264..149L ADS
- Fisher, G. H., Welsch, B. T., Abbett, W. P., & Bercik, D. J., "Estimating Electric Fields from Vector Magnetogram Sequences", 2010ApJ...715..242F ADS
- Li, Y., Lynch, B. J., Welsch, B. T., et al., "Photospheric Magnetic Field Evolution in AR8038 with Homologous Coronal Mass Ejections", 2010AAS...21640602L ADS
- Abbett, W. P., Fisher, G. H., Welsch, B. T., & Bercik, D. J., "Assimilating Measurements of the Photospheric Magnetic Field into MHD Models of the Solar Atmosphere", 2010AAS...21640502A ADS
- Fisher, G. H., Welsch, B. T., Abbett, W. P., & Bercik, D. J., "Estimating Electric Fields from Vector Magnetogram Sequences", 2010AAS...21640113F ADS
- Welsch, B., Fisher, G. H., Abbett, W. P., & Bercik, D. J., "Determining Flow Fields Consistent with Vector Magnetic Evolution", 2010AAS...21640112W ADS
- Welsch, B., "Beyond Black & White: What Photospheric Magnetograms Can Teach Us About Solar Activity", 2010AAS...21610901W ADS
- Fisher, G. H., Abbett, W. P., Bercik, D. J., McTiernan, J. M., & Welsch, B. T., "Incorporating Magnetogram Data into Time-Dependent Coronal Field Models", 2009AGUFMSM51A1340F ADS
- Krauss-Varban, D. & Welsch, B. T., "Two-Stage Model of Solar Flare Particle Acceleration: Processes and Scales of Energization in low-beta Reconnection", 2009AGUFMSH22A..07K ADS
- Welsch, B. T., Li, Y., Schuck, P. W., & Fisher, G. H., "What is the relationship between photospheric flow fields and solar flares?", 2009AGUFMSH21C..05W ADS
- Welsch, B. T., Li, Y., Schuck, P. W., & Fisher, G. H., "What is the Relationship Between Photospheric Flow Fields and Solar Flares?", 2009ApJ...705..821W ADS
- Fisher, G. H., Welsch, B. T., Abbett, W. P., & Bercik, D. J., "Estimating Electric Fields from Sequences of Vector Magnetograms", 2009shin.confE..10F ADS
- Welsch, B. T., Li, Y., Schuck, P. W., & Fisher, G. H., "What is the relationship between photospheric flow fields and solar flares?", 2009shin.confE..7W ADS
- Parnell, C. E., DeForest, C. E., Hagenaar, H. J., et al., "A Power-Law Distribution of Solar Magnetic Fields Over More Than Five Decades in Flux", 2009ApJ...698...75P ADS
- Welsch, B., Li, Y., Schuck, P. W., & Fisher, G. H., "What is the Relationship Between the Properties of Photospheric Flows and Flares?", 2009SPD...40.1909W ADS
- Fisher, G. H., Welsch, B. T., Abbett, W. P., & Bercik, D. J., "Estimating Electric Fields from Vector Magnetogram Sequences", 2009SPD...40.0605F ADS
- Parnell, C., DeForest, C. E., Hagenaar, H. J., et al., "A Power-law Distribution of Solar Magnetic Fields Over More Than Five Decades in Flux", 2009SPD...40.0603P ADS
- Welsch, B. T. & Li, Y., "Active Region Flux Dispersal", 2008AGUFMSH13A1518W ADS
- Parnell, C. E., DeForest, C. E., Hagenaar, H. J., Lamb, D. A., & Welsch, B. T., "Quiet-Sun: A Comparison of MDI and SOT Fluxes", 2008ASPC...397...31P ADS
- Li, Y., Lynch, B. J., Stenborg, G., et al., "The Solar Magnetic Field and Coronal Dynamics of the Eruption on 2007 May 19", 2008ApJ...681L..37L ADS
- Welsch, B. T., Abbett, W. P., DeRosa, M. L., et al., "Erratum: "Tests and Comparisons of Velocity-Inversion Techniques" (ApJ, 670, 1434 [2007])", 2008ApJ...680..827W ADS
- DeForest, C. E., Lamb, D. A., Berger, T., et al., "The Small-Scale Field Measured With Hinode/SOT and Feature Tracking: Where is the mixed-polarity flux?", 2008AGUSMSP51D..01D ADS
- Li, Y., Welsch, B. T., Bercik, D. J., et al., "Comparisons of the Solar Magnetic Field at Two Heights", 2008AGUSMSP31B..07L ADS

- Welsch, B. T., Fisher, G. H., Abbett, W. P., & Bercik, D. J., "Using Ideal Electric Fields Estimated from Vector Magnetogram Sequences to Drive Coronal MHD Simulations", 2008AGUSMSH54A..04W ADS
- Welsch, B. T., Li, Y., & Schuck, P. W., "Is there any relationship between photospheric flows and flares & CMEs?", 2008AGUSMSH54A..03W ADS
- Abbett, W. P., Fisher, G. H., Welsch, B. T., & Bercik, D. J., "The Dynamic Evolution of Active Region Magnetic Fields in the Solar Atmosphere", 2008AGUSMSH31A..08A ADS
- Lamb, D. A., DeForest, C. E., Hagenaar, H. J., Parnell, C. E., & Welsch, B. T., "Solar Magnetic Tracking. II. The Apparent Unipolar Origin of Quiet-Sun Flux", 2008ApJ...674..520L ADS
- Fisher, G., Fisher, G., Abbett, B., Welsch, B., & Bercik, D., "A New Technique for Finding Electric Fields from Sequences of Vector Magnetograms", 2008cosp...37..888F ADS
- Welsch, B. T. & Li, Y., "On the Origin of Strong-Field Polarity Inversion Lines", 2008ASPC...383..429W ADS
- Li, Y. & Welsch, B. T., "The Subsequent Decaying Regions of NOAA AR7978", 2008ASPC...383..397L ADS
- Fisher, G. H. & Welsch, B. T., "FLCT: A Fast, Efficient Method for Performing Local Correlation Tracking", 2008ASPC...383..373F ADS
- Hudson, H. S., Fisher, G. H., & Welsch, B. T., "Flare Energy and Magnetic Field Variations", 2008ASPC...383..221H ADS
- Welsch, B. T. & Fisher, G. H., "Surface Flows From Magnetograms", 2008ASPC...383..19W ADS
- Welsch, B. T., Abbett, W. P., De Rosa, M. L., et al., "Tests and Comparisons of Velocity-Inversion Techniques", 2007ApJ...670.1434W ADS
- Lamb, D., DeForest, C. E., Hagenaar, H. J., Parnell, C. E., & Welsch, B. T., "Feature Tracking of Hinode Magnetograms", 2007AGUFMSH53A1066L ADS
- Li, Y., Lynch, B. J., Welsch, B. T., et al., "The source region magnetic conditions of solar eruption events observed by multi spacecraft", 2007AGUFMSH32A0773L ADS
- Welsch, B. T., Li, Y., & Fisher, G. H., "Photospheric Flows and Flares/CMEs: A Progress Report", 2007AGUFMSH23B..06W ADS
- DeForest, C. E., Hagenaar, H. J., Lamb, D. A., Parnell, C. E., & Welsch, B. T., "Solar Magnetic Tracking. I. Software Comparison and Recommended Practices", 2007ApJ...666..576D ADS
- Krauss-Varban, D. & Welsch, B. T., "Solar flare particle heating via low- $\beta$  reconnection", 2007HiA....14...89K ADS
- Lamb, D., DeForest, C. E., Parnell, C. E., Hagenaar, H. J., & Welsch, B. T., "Magnetic Network Formation Due to Sub-arcsecond Flux Processing", 2007AAS...210.9213L ADS
- Fisher, G. H. & Welsch, B., "FLCT: A Fast, Efficient Method for Performing Local Correlation Tracking", 2007AAS...210.9211F ADS
- Welsch, B., De Moortel, I., & McTiernan, J. M., "Magnetic Field Extrapolations And Current Sheets", 2007AAS...210.9101W ADS
- Welsch, B. T., "How Does Free Magnetic Energy Enter the Corona?", 2006AGUFMSH31B..01W ADS
- Welsch, B., DeVore, C., & Antiochos, S. K., "Modeling Free Energy & Reconnection in the Corona", 2006SPD...37.0908W ADS
- Welsch, B. T., "Magnetic Flux Cancellation and Coronal Magnetic Energy", 2006ApJ...638.1101W ADS
- Welsch, B. T. & Fisher, G. H., "Free Magnetic Energy Changes in AR 8210", 2006IAUS...233...73W ADS
- Welsch, B. T., DeVore, C. R., & Antiochos, S. K., "Magnetic Reconnection Models of Prominence Formation", 2005ApJ...634.1395W ADS
- Welsch, B. T. & Lundquist, L. L., "Measurements of Free Magnetic Energy Flux Across the Photosphere", 2005AGUFMSH13A0270W ADS
- Lamb, D. A., DeForest, C. E., Hagenaar, H. J., Parnell, C. E., & Welsch, B. T., "Destruction Mechanisms of Quiet-Sun Magnetic Flux", 2005AGUSMSP41B..02L ADS
- Welsch, B., "Magnetic Flux Cancellation and Coronal Magnetic Energy", 2005AGUSMSH53B..06W ADS
- Welsch, B. T., DeVore, C. R., & Antiochos, S. K., "Prominence Formation Processes", 2005HiA....13..127W ADS
- Li, Y., Luhmann, J., Fisher, G., & Welsch, B., "Observational evidence for velocity convergence toward magnetic neutral lines as a factor in CME initiation", 2004JASTP...66.1271L ADS
- Welsch, B. T., Fisher, G. H., Abbett, W. P., & Regnier, S., "ILCT: Recovering Photospheric Velocities from Magnetograms by Combining the Induction Equation with Local Correlation Tracking", 2004ApJ...610.1148W ADS
- Li, Y., Welsch, B., Fisher, G., Luhmann, J., & Hudson, H., "Photospheric field variations during the Oct. 28 and 29 solar events", 2004AGUSMSH51A..01L ADS
- Fisher, G. H., Welsch, B. T., Abbett, W. P., & Regnier, S., "ILCT: Combining Local Correlation Tracking with the Magnetic Induction Equation", 2004AAS...204.8805F ADS
- Welsch, B. T., DeVore, C. R., & Antiochos, S. K., "Flux Collision Models of Prominence Formation, or Breaking Up is Hard to Do", 2004AAS...204.5505W ADS
- Welsch, B. T., Fisher, G. H., & Abbett, W. P., "I+LCT: A Method for Determining Photospheric Flows from Magnetograms", 2003AGUFMSH22A0177W ADS
- Welsch, B. T., DeVore, C. R., Antiochos, S. K., & Linton, M. G., "A Model for Prominence Formation", 2003SPD...34.0413W ADS
- Welsch, B. T. & Longcope, D. W., "Magnetic Helicity Injection by Horizontal Flows in the Quiet Sun. I. Mutual-Helicity Flux", 2003ApJ...588..620W ADS
- Welsch, B. T., "Models of Filament-Prominence Formation", 2003IAUJD...3E...9W ADS
- Welsch, B. T. & Longcope, D. W., "Magnetic Helicity Injection by Horizontal Flows in the Quiet Sun: II. Self Helicity Flux", 2002AGUFMSH52A0455W ADS
- Welsch, B. T. & Longcope, D. W., "Quiet sun magnetic helicity transport: I. Mutual helicity flux", 2002ESASP.505..611W ADS
- Welsch, B. T.: 2002, "Magnetic helicity transport in the quiet Sun", Ph.D. thesis, Montana State University, Bozeman 2002PhDT.....5W ADS
- Welsch, B. & Longcope, D., "Quiet Sun Magnetic Helicity Transport: I. Mutual Helicity Flux", 2002AAS...200.0303W ADS
- Welsch, B.: 2002, Magnetic Helicity Transport in the Quiet Sun, Presented at the KITP Program: Solar Magnetism and Related Astrophysics, Mar 13, 2002, Kavli Institute for Theoretical Physics, University of California, Santa Barbara, id.25 2002smra.progE..25W ADS
- Welsch, B. T. & Longcope, D. W., "Magnetic Helicity Transport in the Quiet Sun: Theory & Observations", 2001AGUFMSH11C0721W ADS
- Welsch, B. T. & Longcope, D. W., "Model Solar Active Regions: Predictions of Observables", 2001AGUSM..SH41A15W ADS
- Longcope, D. W. & Welsch, B. T., "A Model for the Emergence of a Twisted Magnetic Flux Tube", 2000ApJ...545.1089L ADS
- Longcope, D. & Welsch, B., "A model for the emergence of a twisted magnetic flux tube", 2000SPD...31.0401L ADS
- Welsch, B. T. & Longcope, D. W., "Statistical Properties of Magnetic Separators in Model Active Regions", 2000IAUS...195..443W ADS
- Welsch, B. T. & Longcope, D. W., "Statistical Properties of Magnetic Separators in Model Active Regions", 1999ApJ...522.1117W ADS
- Welsch, B. T. & Longcope, D. W., "Statistical Properties of Magnetic Separators in Model Active Regions", 1999AAS...194.5505W ADS
- Welsch, B. & Longcope, D. W., "Statistics of Separators in a Model Bipolar Active Region Field", 1997SPD...28.0256W ADS
- Crawford, J., Sheppard, A. J. T., Welsch, B. Y., & Nightingale, T. J., "Thermal And Radiometric Testing Of The Improved Stratospheric And Mesospheric Sounder (ISAMS) Instrument", 1987SPIE...810..252C ADS