

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

- Derosa, M., Hoeksema, J. T., Mahajan, S., & Upton, L. A., “The Impact of Nonlinear Interactions Between Solar Photospheric Magnetic Fields and Flows on the Evolution of the Polar Fields During Recent Sunspot Cycles”, 2022cosp...44.3224D [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](#)
- Sun, X., Derosa, M., & Torok, T., “Suppression of Torus Instability on Cool Stars”, 2022cosp...44.1389S [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](#)
- Sun, X., Török, T., & DeRosa, M. L., “Torus-stable zone above starspots”, 2022MNRAS.509.5075S [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](#)
- Upton, L., Jain, K., Komm, R., et al., “A Comparative Study of Measurements of the Sun's Axisymmetric Flows: A COFFIES Effort”, 2021AGUFM55D1871U [ADS](#)
- DeRosa, M. & Mahajan, S., “Assessing the Impact of Cross-Equatorial Surface Flows on the Buildup of Polar Fields Using Surface Flux Transport Models”, 2021AGUFM54A...02D [ADS](#)
- Cheung, C. M. 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”, 2021AGUFM51A...08C [ADS](#)
- Sun, X., Torok, T., & DeRosa, M., “Torus-Stable Zone Above Starspots”, 2021AGUFM532A...02S [ADS](#)
- Jones, S., Arge, C., Barnes, G., et al., “Coronal and Heliospheric Modeling with WSA: Recent Updates and Applications”, 2021AGUFM515G2088J [ADS](#)
- Gopalswamy, N., Kucera, T., Leake, J., et al., “The Multiview Observatory for Solar Terrestrial Science (MOST)”, 2021AGUFM512A...07G [ADS](#)
- Toriumi, S., Airapetian, V., Hudson, H., et al., “Sun-as-a-star Spectral Irradiance Observations of Transiting Active Regions: A Milestone for Characterization of Stellar Active Regions”, 2021AGUFM.U43B...05T [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](#)
- DeRosa, M. L., Leka, K. D., Barnes, G., et al., “Enhancements to Hinode/SOT-SP Vector Magnetic Field Data Products”, 2021AAS...23821305D [ADS](#)
- Sun, X., Torok, T., & DeRosa, M., “Torus-Stable Zone Above Starspots”, 2021AAS...23820801S [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](#)
- 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](#)
- Sun, X., Török, T., & DeRosa, M., “Torus-Stable Zone Above Starspots”, 2021csss.confE...15S [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](#)
- DeRosa, M. L., Zhao, J., & Liu, Y., “Flux-Transport Simulations of Solar Polar Magnetic Fields Based on Various Meridional Surface Flow Profiles”, 2020AGUFM50020016D [ADS](#)
- Liu, Y., Hoeksema, T., Zhao, J., DeRosa, M. L., & Sun, X., “Understanding Solar Cycle Magnetic Evolution with Properties of Solar Active Regions”, 2020AGUFM50020015L [ADS](#)
- Hess Webber, S. A., Chen, R., DeRosa, M. L., Upton, L., & Zhao, J., “Using New Acoustically-Derived Solar Far-Side Magnetic-Flux Maps for Data Assimilation in Flux Transport Models”, 2020AGUFM50020005H [ADS](#)
- Kam, C., Arbolante, Q., Frank, Z., & DeRosa, M. L., “Search Tool for Retrieving Level 2 Data from Hinode's Spectro-Polarimeter (SP)”, 2020AGUFMED0260056K [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](#)
- Gilchrist, S. A., Leka, K. D., Barnes, G., Wheatland, M. S., & DeRosa, M. L., “On Measuring Divergence for Magnetic Field Modeling”, 2020ApJ...900...136G [ADS](#)
- Fisher, G. H., Kazachenko, M. D., Welsch, B. T., et al., “The PDFISS Electric Field Inversion Software”, 2020ApJS...248...2F [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](#)
- Hess Webber, S. A., Zhao, J., Chen, R., et al., “Inferring the Sun's Far-Side Magnetic Flux for Operations Using Time-Distance Helioseismic Imaging”, 2019AGUFM5H33C3353H [ADS](#)
- Jin, M., Liu, W., Cheung, C. M. M., et al., “Global Magnetohydrodynamics Simulation of EUV Waves and Shocks from the X8.2 Eruptive Flare on 2017 September 10”, 2019AGUFM5H32A...01J [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](#)
- Farrish, A. O., Alexander, D., Maruo, M., et al., “Characterizing the Magnetic Environment of Exoplanet Stellar Systems”, 2019ApJ...885...51F [ADS](#)
- Cheung, M., Rempel, M. D., Chintzoglou, G., et al., “Radiative MHD Simulation of a Solar Flare”, 2019AAS...23431005C [ADS](#)
- Liu, W., Jin, M., Ofman, L., & DeRosa, M. L., “The Global EUV Wave Associated with the SOL2017-09-10 X8.2 Flare: SDO/AIA Observations and Data-constrained MHD Simulations”, 2019AAS...23430701L [ADS](#)
- DeRosa, M. L. & Barnes, G., “Coronal Magnetic Field Topologies of Solar Active Regions”, 2019AAS...23430504D [ADS](#)
- Farrish, A., Alexander, D., Maruo, M., et al., “Simulating the Inner Astero-spheric Magnetic Fields of Exoplanet Host Stars”, 2019AAS...23430305F [ADS](#)
- Hess Webber, S. A., Zhao, J., Chen, R., et al., “Reliably Inferring the Sun's Far-Side Magnetic Flux for Operations Using Time-Distance Helioseismic Imaging - Updates”, 2019AAS...23411805H [ADS](#)
- Farrish, A., Alexander, D., Maruo, M., et al., “Magnetic Properties of Asterospheres of Exoplanet Systems”, 2019shin.confE.152F [ADS](#)
- Hess Webber, S. A., Zhao, J., Chen, R., et al., “Reliably Inferring the Sun's Far-Side Magnetic Flux for Operations Using Time-Distance Helioseismic Imaging”, 2019spwe.confE...1H [ADS](#)
- DeRosa, M. & Barnes, G., “To what degree do regions of open flux located near active regions affect their eruptivity?”, 2019EGUGA...21.4673D [ADS](#)
- Nita, G., Angryk, R., Aydin, B., et al., “Roadmap for Reliable Ensemble Forecasting of the Sun-Earth System”, 2018arXiv181008728N [ADS](#)
- Farrish, A. O., Maruo, M., Barnes, W. T., et al., “Simulation of Exoplanet Host Star Magnetic Activity on Stellar Cycle Timescales”, 2018LPICo2065.2043F [ADS](#)
- Liu, Y., Zhao, J., Hoeksema, J. T., et al., “Using Sun's Far-Side Images Inferred by the Time-Distance Helioseismic Imaging to Improve Synoptic Maps of Magnetic Field: Importance and Methodology”, 2018shin.confE.147L [ADS](#)
- DeRosa, M., Barnes, G., & Sun, X., “Do Topological Features of the Solar Corona Affect EUV Wave Events?”, 2018shin.confE.142D [ADS](#)
- Farrish, A., Maruo, M., Barnes, W., et al., “Simulation of Exoplanet Host Star Magnetic Activity on Stellar Cycle Timescales”, 2018shin.confE...4F [ADS](#)
- DeRosa, M. L. & Barnes, G., “Does Nearby Open Flux Affect the Eruptivity of Solar Active Regions?”, 2018ApJ...861..131D [ADS](#)
- Petrie, G., Pevtsov, A., Schwarz, A., & DeRosa, M., “Modeling the Global Coronal Field with Simulated Synoptic Magnetograms from Earth and the Lagrange Points L<sub>3</sub>, L<sub>4</sub>, and L<sub>5</sub>”, 2018SoPh...293...88P [ADS](#)
- DeRosa, M. L., “What Happens to Coronal Field Models when Fake East-Limb Active Regions are Inserted into Real Synoptic Charts?”, 2018tess.conf41603D [ADS](#)
- Farrish, A., Barnes, W., Alexander, D., Bradshaw, S. J., & DeRosa, M. L., “Simulated Coronal EUV Emission from Exoplanet Host Stars”, 2018tess.conf40649F [ADS](#)
- Alexander, D., Farrish, A., Maruo, M., & De Rosa, M. L., “The Application of Solar Flux Transport Modeling to Exoplanet Systems”, 2018tess.conf40648A [ADS](#)
- Petrie, G. J. D., Pevtsov, A. A., Schwarz, A. M., & DeRosa, M., “Modeling the Global Coronal Field with Simulated Synoptic Magnetograms from Earth and the Lagrange points L<sub>3</sub>, L<sub>4</sub> and L<sub>5</sub>”, 2018tess.conf40132P [ADS](#)
- Jin, M., Cheung, C. M. M., DeRosa, M. L., Nitta, N., & Schrijver, K., “Coronal Mass Ejections and Dimmings: A Comparative Study using MHD Simulations and SDO Observations”, 2017AGUFM5H41A2758J [ADS](#)
- Linker, J. A., Caplan, R. M., Downs, C., et al., “The Open Flux Problem”, 2017ApJ...848...70L [ADS](#)
- Rempel, M. D., Cheung, M., Chintzoglou, G., et al., “Realistic radiative MHD simulation of a solar flare”, 2017SPD...4840001R [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](#)
- DeRosa, M. & Barnes, G., “Does erupting material in flaring active regions always have access to open flux?”, 2017shin.confE...46D [ADS](#)

- Harra, L. K., Ugarte-Urra, I., De Rosa, M., et al., "A study of the long term evolution in active region upflows", 2017PASJ...69...47H ADS
- Gibson, S. E., Dalmasse, K., Rachmeler, L. A., et al., "Magnetic Nulls and Super-radial Expansion in the Solar Corona", 2017ApJ...840L..13G ADS
- Rouillard, A. P., Plotnikov, I., Pinto, R. F., et al., "Deriving the Properties of Coronal Pressure Fronts in 3D: Application to the 2012 May 17 Ground Level Enhancement", 2016ApJ...833...45R ADS
- Title, A. & DeRosa, M., "Flare Clustering", 2016uscf.confE..50T ADS
- Barnes, G., DeRosa, M., & Wagner, E., "The Topology of Coronal Magnetic Fields, Shine Characterizing the Properties of Coronal Magnetic Null Points", 2016shin.confE.133B ADS
- DeRosa, M. & Barnes, G., "Do large-scale topological features correlate with flare properties?", 2016shin.confE.129D 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
- DeRosa, M. L. & Barnes, G., "Do Large-Scale Topological Features Correlate with Flare Properties?", 2016SPD...47.1005D ADS
- Cheung, M., Rempel, M. D., Martínez-Sykora, J., et al., "Physics & Diagnostics of the Drivers of Solar Eruptions", 2016SPD...47.0607C 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
- Jin, M., Schrijver, K., Cheung, C. M. M., et al., "The Role of Large-scale Magnetic Coupling for Solar Corona Sympathy", 2015AGUFMSH23A2425J ADS
- DeRosa, M. L., Wheatland, M. S., Leka, K. D., et al., "The Influence of Spatial resolution on Nonlinear Force-free Modeling", 2015ApJ...811..107D ADS
- Barnes, G., DeRosa, M., & Wagner, E., "Characterizing the Properties of Coronal Magnetic Null Points", 2015IAUGA..2258194B ADS
- DeRosa, M. & Cheung, M., "Evolving Models of Surface and Coronal Activity of Sun-Like Stars", 2015IAUGA..2257506D ADS
- Barnes, G., DeRosa, M., & Wagner, E., "Characterizing the Properties of Coronal Magnetic Null Points", 2015shin.confE..79B 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
- Thompson, B. J., DeRosa, M. L., Fisher, R. R., et al., "What Do EUV Dimmings Tell Us About CME Topology", 2015TESS...121201T ADS
- Riley, P., Lionello, R., Linker, J. A., et al., "Inferring the Structure of the Solar Corona and Inner Heliosphere During the Maunder Minimum Using Global Thermodynamic Magnetohydrodynamic Simulations", 2015ApJ...802..105R ADS
- Santamaria, L., Di Sarno, V., Ricciardi, I., et al., "Low-temperature Spectroscopy of the  $^{12}\text{C}_2\text{H}_2$  ( $\psi_{\text{silon}_1}$  +  $\psi_{\text{silon}_3}$ ) Band in a Helium Buffer Gas", 2015ApJ...801...50S ADS
- Thompson, B. J., DeRosa, M. L., Fisher, R. R., et al., "What Do EUV Dimmings Tell Us About CME Topology?", 2014AGUFMSH43B4202T ADS
- Culhane, J. L., Brooks, D. H., van Driel-Gesztelyi, L., et al., "Tracking Solar Active Region Outflow Plasma from Its Source to the Near-Earth Environment", 2014SoPh...289.3799C ADS
- Barnes, G., Wagner, E., & DeRosa, M., "Characterizing the Properties of Coronal Magnetic Null Points", 2014shin.confE..74B ADS
- DeRosa, M. L., Malanushenko, A., Schrijver, C. J., & Wheatland, M. S., "Active Region Magnetic Field Modeling Guided by Coronal Loops and Surface Fields", 2014AAS...22432319D ADS
- Malanushenko, A., Schrijver, C. J., DeRosa, M. L., & Wheatland, M. S., "Using Coronal Loops to Reconstruct the Magnetic Field of an Active Region before and after a Major Flare", 2014ApJ...783..102M ADS
- Title, A. & DeRosa, M., "Properties of Solar Flare Clustering", 2014cosp...40E3345T ADS
- Malanushenko, A., Schrijver, C., Wheatland, M. S., & DeRosa, M., "Using coronal loops to model the coronal magnetic field before and after major eruptive events", 2014cosp...40E1960M ADS
- Nitta, N. V., Sun, X., Hoeksema, J. T., & DeRosa, M. L., "Solar Cycle Variations of the Radio Brightness of the Solar Polar Regions as Observed by the Nobeyama Radioheliograph", 2014ApJ...780L..23N ADS
- Pesnell, W. D., Schrijver, C. J., Boerner, P., et al., "The Perihelion Passage of Comet ISON as seen by SDO", 2013AGUFM.P24A..10P ADS
- Schrijver, C. J., Title, A. M., Yeates, A. R., & DeRosa, M. L., "Pathways of Large-scale Magnetic Couplings between Solar Coronal Events", 2013ApJ...773...93S ADS
- Fisher, G. H., DeRosa, M. L., & Hoeksema, J. T., "The Coronal Global Evolutionary Model (CGEM)", 2013SPD...4410102F ADS
- Brun, A. S., Derosa, M. L., & Hoeksema, J. T., "On the role of asymmetries in the reversal of the solar magnetic field", 2013IAUS..294...75B ADS
- Title, A., Schrijver, K., & Derosa, M., "Collective Solar Behavior", 2013ens.confE.120T ADS
- Welsch, B. T., Kazachenko, M., Fisher, G. H., et al., "Photospheric Drivers of Coronal Evolution", 2013ens.confE.108W ADS
- DeRosa, M. L., Schrijver, C. J., Title, A. M., & Yeates, A. R., "Some Difficulties in Determining Causality of Sympathetic Solar Events", 2013ens.confE..91D ADS
- Manchester, W. B., Fang, F., Burns, C., et al., "Initiation of Coronal Mass Ejections: A Comparison of AR11158 with a Simulation of Flux Cancellation", 2012AGUFMSH53B..06M ADS
- Culhane, J. L., Brooks, D., Zurbuchen, T., et al., "Tracking Solar Active Region Outflow Plasma from its Source to the near-Earth Environment", 2012AGUFMSH53A2255C ADS
- Vieira, L. A., Schrijver, C., DeRosa, M. L., et al., "Evolution of the solar luminosity during solar cycle 23", 2012AGUFMSH12A..04V ADS
- van Driel-Gesztelyi, L., Culhane, J. L., Baker, D., et al., "Magnetic Topology of Active Regions and Coronal Holes: Implications for Coronal Outflows and the Solar Wind", 2012SoPh..281..237V ADS
- Guo, Y., Ding, M. D., Liu, Y., et al., "Modeling Magnetic Field Structure of a Solar Active Region Corona Using Nonlinear Force-free Fields in Spherical Geometry", 2012ApJ...760...47G ADS
- Nitta, N. V., Liu, Y., DeRosa, M. L., & Nightingale, R. W., "What Are Special About Ground-Level Events? Flares, CMEs, Active Regions and Magnetic Field Connection", 2012SSRv..171...61N ADS
- Cheung, M. C. M. & DeRosa, M. L., "A Method for Data-driven Simulations of Evolving Solar Active Regions", 2012ApJ...757..147C ADS
- DeRosa, M. L., Brun, A. S., & Hoeksema, J. T., "Solar Magnetic Field Reversals and the Role of Dynamo Families", 2012ApJ...757...96D ADS
- Malanushenko, A., Schrijver, C. J., DeRosa, M. L., Wheatland, M. S., & Gilchrist, S. A., "Guiding Nonlinear Force-free Modeling Using Coronal Observations: First Results Using a Quasi-Grad-Rubin Scheme", 2012ApJ...756..153M ADS
- Aschwanden, M. J., Wuelser, J.-P., Nitta, N. V., et al., "First Three-dimensional Reconstructions of Coronal Loops with the STEREO A+B Spacecraft. IV. Magnetic Modeling with Twisted Force-free Fields", 2012ApJ...756..124A ADS
- Hurlburt, N. E., DeRosa, M. L., Augustson, K. C., & Toomre, J., "Effects of Granulation upon Larger-Scale Convection", 2012ASPC..454...13H ADS
- Mandrini, C. H., Culhane, J. L., Vourlidas, A., et al., "Magnetic topology, coronal outflows, and the solar wind", 2012cosp...39.1173M 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
- Liu, Y., Scherrer, P. H., Hoeksema, J. T., et al., "A First Look at Magnetic Field Data Products from SDO/HMT", 2012ASPC..455..337L ADS
- Malanushenko, A., Schrijver, C. J., & DeRosa, M. L., "Estimate of Energy Release In a Major Flare Using Coronal Loops Data", 2012AAS...22052115M ADS
- DeRosa, M. L. & Cheung, M., "Topology of Coronal Fields from Evolving Magnetofrictional Models", 2012AAS...22041104D ADS
- Aschwanden, M. J., Malanushenko, A., Wuelser, J., et al., "Force-Free Magnetostereoscopy of Coronal Loops", 2012AAS...22041103A ADS
- Malanushenko, A., DeRosa, M., Schrijver, C., Wheatland, M. S., & Gilchrist, S., "Non-Linear Force-Free Modeling of Solar Corona With The Aid of Coronal Loops", 2012decs.confE.113M ADS
- DeRosa, M. L., "The impact of the chromosphere on magnetic fields: field extrapolations", 2012decs.confE..88D ADS
- Cheung, M. C. M. & DeRosa, M. L., "Data-Driven Modeling of the Evolution of Active Regions and Coronal Holes", 2012decs.confE..83C ADS
- Malanushenko, A. V., DeRosa, M. L., Schrijver, C. J., Gilchrist, S. A., & Wheatland, M. S., "Non-Linear Force-Free Modeling With The Aid of Coronal Observations", 2011AGUFMSH43B1956M ADS
- Cheung, M. & DeRosa, M. L., "Data-driven Simulations of Evolving Active Regions", 2011AGUFMSH33C..04C ADS
- Sainz Dalda, A., López Ariste, A., Gelly, B., et al., "Spectropolarimetric Comparison Between SDO/HMI and Hinode-SOT/SP Through THEMIS/MTR", 2011AGUFMSH31A1986S ADS
- Aschwanden, W., Nitta, S., & DeRosa, M., "Magnetic Field Modeling with Stereoscopy and Magnetograms", 2011sdmi.confE..81A ADS
- DeRosa, M. L., Brun, A. S., & Hoeksema, J. T., "Dipolar and Quadrupolar Magnetic Field Evolution over Solar Cycles 21, 22, and 23", 2011IAUS..271...94D ADS
- Malanushenko, A., Schrijver, C., DeRosa, M., et al., "Simulating Coronal Emission in Six AIA Channels Using Quasi-Static Atmosphere Models and Non-Linear Magnetic Field Models", 2011SPD...42.2116M ADS
- DeRosa, M. L., Schrijver, C. J., & Barnes, G., "Topology of Coronal Fields from Potential Field Models", 2011SPD...42.1810D ADS

- Cheung, C. & Derosa, M. L., “Data-Driven Simulations of Coronal Magnetic Fields: A First Attempt with SDO Data”, 2010AGUFM14A..04C ADS
- Fleishman, G., Gary, D., Nita, G., et al., “Uncovering Mechanisms of Coronal Magnetism via Advanced 3D Modeling of Flares and Active Regions”, 2010arXiv1011.2800F ADS
- Schrijver, C. J., DeRosa, M. L., & Title, A. M., “Magnetic Field Topology and the Thermal Structure of the Corona over Solar Active Regions”, 2010ApJ...719.1083S ADS
- Hagenaar, H. J., DeRosa, M. L., & Schrijver, C. J., “Erratum: “The Dependence of Ephemeral Region Emergence on Local Flux Imbalance” <A href=“abs/2008ApJ...678..541H”>(2008, ApJ, 678, 541)</A>”, 2010ApJ...715..696H ADS
- Liu, W., Berger, T., Title, A. M., Tarbell, T. D., & DeRosa, M., “Direct Imaging of an Emerging Flux Rope and a Resulting Chromospheric Jet Observed by Hinode”, 2010AAS...21640307L ADS
- Augustson, K., Hurlburt, N., DeRosa, M., & Toomre, J., “Modeling the Near-Surface Shear Layer Through Coupled Simulations of Surface and Deep Convection”, 2010AAS...21640008A ADS
- DeRosa, M. L., Hoeksema, J. T., & Brun, A. S., “A Spherical Harmonic Analysis of the Evolution of the Photospheric Magnetic Field, and Consequences for the Solar Dynamo”, 2010AAS...21631701D ADS
- Schrijver, C. J., DeRosa, M. L., & Title, A. M., “Magnetic Field Topology and the Thermal Structure of the Corona over Solar Active Regions”, 2010AAS...21631201S ADS
- Hanasoge, S. M., Duvall, Thomas L., J., & DeRosa, M. L., “Seismic Constraints on Interior Solar Convection”, 2010ApJ...712L..98H ADS
- Hu, Q., Dasgupta, B., Derosa, M. L., Büchner, J., & Gary, G. A., “Non-force-free extrapolation of solar coronal magnetic field using vector magnetograms”, 2010JASTP...72..219H ADS
- Sandman, A. W., Aschwanden, M. J., DeRosa, M. L., Wülser, J. P., & Alexander, D., “Comparison of STEREO/EUVI Loops with Potential Magnetic Field Models”, 2009SoPh...259...1S ADS
- Hudson, H. S., MacKinnon, A. L., De Rosa, M. L., & Frewen, S. F. N., “Coronal Radiation Belts”, 2009ApJ...698L..86H 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
- Augustson, K., De Rosa, M. L., Hurlburt, N. E., & Toomre, J., “Stochastic Effects of Granulation and Supergranulation Upon Deep Convection”, 2009SPD...40.0805A 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., “The Buildup of Large-Scale Polar Magnetic Fields on the Sun: Small Things Can Make a Difference”, 2008AGUFM14A..01D 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”, 2008AGUFM14A1604D ADS
- Frewen, S. S., De Rosa, M., Hudson, H., & MacKinnon, A., “Modeling of Solar Radiation Belts”, 2008AGUFM13B1526F ADS
- Sandman, A., Aschwanden, M., Wuelser, J., De Rosa, M., & Alexander, D., “Using STEREO/EUVI to Study Active Region Magnetic Fields”, 2008AGUFM13B1523S ADS
- Hu, Q., Dasgupta, B., Buechner, J., & De Rosa, M., “Non-force Free Coronal Extrapolation Based on the Principle of Minimum Dissipation Rate”, 2008AGUFM13A1514H ADS
- Rust, D. M., Haggerty, D. K., Georgoulis, M. K., et al., “On the Solar Origins of Open Magnetic Fields in the Heliosphere”, 2008ApJ...687..635R ADS
- Hurlburt, N. & DeRosa, M., “On the Stability of Active Regions and Sunspots”, 2008ApJ...684L.123H ADS
- Wiegelmann, T., Thalmann, J. K., Schrijver, C. J., De Rosa, M. L., & Metcalf, T. R., “Preprocessing of Hinode/SOT Vector Magnetograms for Nonlinear Force-Free Coronal Magnetic Field Modeling”, 2008ASPC...397..198W 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
- Baggio, L., Bignotto, M., Bonaldi, M., et al., “A joint search for gravitational wave bursts with AURIGA and LIGO”, 2008CQGra...25i5004B ADS
- Hagenaar, H. J., DeRosa, M. L., & Schrijver, C. J., “The Dependence of Ephemeral Region Emergence on Local Flux Imbalance”, 2008ApJ...678..541H ADS
- Hurlburt, N., Derosa, M., & Hagenaar, M., “Searching for Large-scale flows around Active Regions with Hinode”, 2008AGUSMSP43C..08H ADS
- De Rosa, M. L., Schrijver, C. J., Metcalf, T. R., et al., “Non-Linear Force-Free Field Modeling of a Solar Active Region Around the Time of a Major Flare and Coronal Mass Ejection”, 2008AGUSMSP31A..06D ADS
- Wuelser, J., Aschwanden, M., De Rosa, M., et al., “Tracing the 3-D coronal structure during CMEs with STEREO/SECCHI EUVI observations”, 2008AGUSMSP31A..05W ADS
- Nitta, N. V., De Rosa, M. L., Zarro, D. M., et al., “Exploring large-scale coronal magnetic field over extended longitudes by STEREO/EUVI and its effect on solar wind prediction”, 2008AGUSMSP23A..06N ADS
- Schrijver, C. J., DeRosa, M. L., Metcalf, T., et al., “Nonlinear Force-free Field Modeling of a Solar Active Region around the Time of a Major Flare and Coronal Mass Ejection”, 2008ApJ...675.1637S ADS
- Metcalf, T. R., De Rosa, M. L., Schrijver, C. J., et al., “Nonlinear Force-Free Modeling of Coronal Magnetic Fields. II. Modeling a Filament Arcade and Simulated Chromospheric and Photospheric Vector Fields”, 2008SoPh...247..269M ADS
- Wiegelmann, T., Thalmann, J. K., Schrijver, C. J., De Rosa, M. L., & Metcalf, T. R., “Can We Improve the Preprocessing of Photospheric Vector Magnetograms by the Inclusion of Chromospheric Observations?”, 2008SoPh...247..249W ADS
- Nitta, N. V. & DeRosa, M. L., “A Comparison of Solar Open Field Regions Found by Type III Radio Bursts and the Potential Field Source Surface Model”, 2008ApJ...673L.207N ADS
- Miesch, M. S., Brun, A. S., DeRosa, M. L., & Toomre, J., “Structure and Evolution of Giant Cells in Global Models of Solar Convection”, 2008ApJ...673..557M ADS
- Hagenaar, H., Schrijver, C., & De Rosa, M., “Ephemeral Bipolar Regions in Coronal Holes”, 2008ASPC...383..343H ADS
- Welsch, B. T., Abbett, W. P., De Rosa, M. L., et al., “Tests and Comparisons of Velocity-Inversion Techniques”, 2007ApJ...670.1434W ADS
- Wiegelmann, T., Thalmann, J. K., Schrijver, C. J., De Rosa, M. L., & Metcalf, T. R., “Can we Improve the Preprocessing of Photospheric Vector Magnetograms by the Inclusion of Chromospheric Observations?”, 2007AGUFM14A..02W ADS
- Astone, P., Babusci, D., Baggio, L., et al., “Results of the IGECE-2 search for gravitational wave bursts during 2005”, 2007PhRvD...76j2001A ADS
- Hanasoge, S. M., Duvall, T. L., De Rosa, M. L., & Miesch, M. S., “Can we detect convection in the Sun?”, 2007IAUS...239..364H ADS
- Metcalf, T. R., De Rosa, M. L., Schrijver, C. J., et al., “Non-linear Force-free Modeling Of Coronal Magnetic Fields”, 2007AAS...210.9102M ADS
- Miesch, M. S., Brun, A. S., De Rosa, M. L., & Toomre, J., “Structure and Evolution of Giant Cells in Global Models of Solar Convection”, 2007AAS...210.2217M ADS
- De Rosa, M. L. & Hurlburt, N. E., “Simulations of Large-Scale Solar Surface Inflows Surrounding Magnetic Fields”, 2007AAS...210.2211D ADS
- Hudson, H. S., MacKinnon, A., & De Rosa, M., “Coronal particle trapping revisited”, 2006AGUFM13A54A..07H ADS
- Nitta, N. V. & De Rosa, M. L., “SEP Properties and Magnetic Field Connection of the Source Region”, 2006AGUFM14B..06N ADS
- De Rosa, M. L. & Schrijver, C. J., “Consequences of large-scale flows around active regions on the dispersal of magnetic field across the solar surface”, 2006ESASP.624E..12D ADS
- Nitta, N. V., Reames, D. V., De Rosa, M. L., et al., “Solar Sources of Impulsive Solar Energetic Particle Events and Their Magnetic Field Connection to the Earth”, 2006ApJ...650..438N ADS
- Hanasoge, S. M., Larsen, R. M., Duvall, T. L., J., et al., “Computational Acoustics in Spherical Geometry: Steps toward Validating Helioseismology”, 2006ApJ...648.1268H ADS
- Nitta, N. & De Rosa, M., “The PFSS Model in the Context of Impulsive SEP Events”, 2006SPD...37.2406N ADS
- De Rosa, M. L., Schrijver, C. J., Metcalf, T. R., & NLFFF Team, “Non-linear Force-free Modeling: Applications To Solar Data”, 2006SPD...37.1805D ADS
- Schrijver, C. J., De Rosa, M. L., & Hurlburt, N. E., “The Consequences Of Active-region Inflows On The Large-scale Dispersal Of Magnetic Field Across The Solar Surface.”, 2006SPD...37.0716S ADS
- Schrijver, C. J., De Rosa, M. L., Metcalf, T. R., et al., “Nonlinear Force-Free Modeling of Coronal Magnetic Fields Part I: A Quantitative Comparison of Methods”, 2006SoPh...235..161S ADS
- De Rosa, M., Marin, F., Marino, F., et al., “Experimental investigation of dynamic photo-thermal effect”, 2006CQGra...23S.259D ADS
- Marino, F., de Rosa, M., & Marin, F., “Canard orbits in Fabry-Perot cavities induced by radiation pressure and photothermal effects”, 2006PhRvE...73b6217M ADS
- Acernese, F., Amico, P., Arnaud, N., et al., “The status of the VIRGO experiment”, 2006rdgp.conf..427A ADS
- De Rosa, M. L., “Small-Scale Surface Flows and their Implications for Solar Activity”, 2006IAUS...233...25D ADS
- De Rosa, M. L., “Influence of Small-scale Dynamics on Large-scale Solar Activity”, 2005ASPC...346..337D ADS

Baggio, L., Bignotto, M., Bonaldi, M., et al., "Erratum: Upper Limits on Gravitational-Wave Emission in Association with the 27 Dec 2004 Giant Flare of SGR1806-20 [Phys. Rev. Lett. 95, 081103 (2005)]", 2005PhRvL...95m9903B ADS

Baggio, L., Bignotto, M., Bonaldi, M., et al., "Upper Limits on Gravitational-Wave Emission in Association with the 27 Dec 2004 Giant Flare of SGR1806-20", 2005PhRvL...95h1103B ADS

Schrijver, C. J., De Rosa, M. L., Title, A. M., & Metcalf, T. R., "The Non-potentiality of Active-Region Coronal and the Dynamics of the Photospheric Magnetic Field", 2005ApJ...628..501S ADS

De Rosa, M. L. & Hurlburt, N. E., "Numerical Simulations of Bipolar Magnetic Field Decay in Turbulent Convection", 2005AGUSMSP11C..02D ADS

Hanasoge, S. M., Duvall, T. L., De Rosa, M. L., & Hurlburt, N. E., "Simulations Of Acoustic-Flow Interaction In Spherical Geometry: Steps Toward Validating Helioseismology", 2005AGUSMSP11B..11H ADS

Schrijver, C. J., De Rosa, M. L., & Metcalf, T., "Non-linear force-free field modeling: model techniques, boundary conditions, hares, and hounds", 2005AGUSMSH31A..05S ADS

Nitta, N. V., Liu, Y., & De Rosa, M. L., "Comparison of Heliospheric Magnetic Field Lines from PFSS Models with SEP Observations", 2005AGUSMSH13A..12N ADS

Schrijver, C. J., Sandman, A. W., Aschwanden, M. J., & De Rosa, M. L., "Coronal heating and the appearance of solar and stellar coronae", 2005ESASP.560...65S ADS

Conti, L., de Rosa, M., Marin, F., Taffarello, L., & Cerdonio, M., "Interferometric readout for acoustic gravitational wave detectors", 2005AIPC..751...75C ADS

De Rosa, M. L. & Toomre, J., "Evolution of Solar Supergranulation", 2004ApJ...616.1242D ADS

Schrijver, C. J., Sandman, A. W., Aschwanden, M. J., & De Rosa, M. L., "The Coronal Heating Mechanism as Identified by Full-Sun Visualizations", 2004ApJ...615..512S ADS

De Rosa, M. L., "Supergranular and Larger-Scale Surface Flows Within Magnetic Environments", 2004ESASP.559..404D ADS

Aschwanden, M. J., Alexander, D., & De Rosa, M. L., "Tomographic 3D-Modeling of the Solar Corona with FASR", 2004ASSL...314..243A ADS

Schrijver, C. J., Sandman, A. W., De Rosa, M. L., & Aschwanden, M. J., "Solar Coronal Heating Inferred from Full-disk Models of Coronal Emission", 2004AAS...204.9501S ADS

De Rosa, M. L. & Hurlburt, N. E., "Numerical Models of solar Magnetocvection: Toward a Coupling to the Corona", 2004AAS...204.3908D ADS

Huang, Y., Wang, Y., de Rosa, M., Fuller, M., & Pizzarello, S., "Molecular and Compound-Specific Isotopic Study of Monocarboxylic Acids in Murchison and Antarctic Meteorites", 2004LPI...35.1888H ADS

Marin, F., Conti, L., & De Rosa, M., "An optical readout scheme for advanced acoustic GW detectors", 2004CQGra..21S1237M ADS

Hurlburt, N. & De Rosa, M., "Solar-like convective and coronal layers in a single numerical model", 2004cosp...35.3551H ADS

Hurlburt, N. E. & De Rosa, M. L., "Modeling solar magnetocvection and coronal structures", 2004IAUS...223..253H ADS

Nightingale, R. W., Schrijver, C. J., & De Rosa, M. L., "TRACE and SOHO/MDI Observations of 3 Rotating Sunspots in AR9002 and AR9004, Along With Modeled Coronal Magnetic Fields", 2003AGUFMSH42B0511N ADS

Schrijver, C. J., Sandman, A., De Rosa, M. L., & Aschwanden, M. J., "Coronal heating and the appearance of the solar corona", 2003AGUFMSH32A1104S ADS

Virgo Collaboration, Acernese, F., Amico, P., et al., "Data analysis methods for non-Gaussian, nonstationary and nonlinear features and their application to VIRGO", 2003CQGra..20S.915V ADS

Virgo Collaboration, Acernese, F., Amico, P., et al., "Status of VIRGO", 2003CQGra..20S.609V ADS

Schrijver, C. J., De Rosa, M. L., & Title, A. M., "Asterospheric Magnetic Fields and Winds of Cool Stars", 2003ApJ...590..493S ADS

Nitta, N. V., Hudson, H. S., & De Rosa, M. L., "The nature of impulsive solar energetic particle events", 2003SPD...34.1606N ADS

De Rosa, M. L. & Hurlburt, N. E., "MHD Simulations Spanning the Convection Zone, Chromosphere, and Corona", 2003SPD...34.0407D ADS

Conti, L., De Rosa, M., Marin, F., Taffarello, L., & Cerdonio, M., "Room temperature gravitational wave bar detector with optomechanical readout", 2003JAP...93.3589C ADS

Schrijver, C. J. & De Rosa, M. L., "Photospheric and heliospheric magnetic fields", 2003SoPh..212..165S ADS

De Rosa, M. L. & Hurlburt, N. E., "Simulations of Near-Surface Solar Magnetocvection Within Localized Spherical Segments", 2003ASPC...293..229D ADS

De Rosa, M. L., Gilman, P. A., & Toomre, J., "Solar Multiscale Convection and Rotation Gradients Studied in Shallow Spherical Shells", 2002ApJ...581.1356D ADS

De Rosa, M. L. & Hurlburt, N. E., "Numerical Simulations of Solar Active Region Magnetocvection", 2002AGUFMSH52A0495D ADS

Schrijver, C. J., De Rosa, M. L., & Title, A. M., "Active regions as sources of the heliospheric field", 2002AGUFMSH52A0436S ADS

de Rosa, M., Conti, L., Cerdonio, M., Pinard, M., & Marin, F., "Experimental Measurement of the Dynamic Photothermal Effect in Fabry-Perot Cavities for Gravitational Wave Detectors", 2002PhRvL...89w7402D ADS

De Rosa, M. L., Hurlburt, N. E., & Alexander, D., "Simulations of near-photospheric magnetocvection within localized spherical segments", 2002ESASP.505..385D ADS

Schrijver, C. J., De Rosa, M. L., & Title, A. M., "The long-term variations of the solar and heliospheric fields", 2002ESASP.505..253S ADS

Schrijver, C. J., De Rosa, M. L., & Title, A. M., "What Is Missing from Our Understanding of Long-Term Solar and Heliospheric Activity?", 2002ApJ...577.1006S ADS

Acernese, F., Barone, F., de Rosa, M., et al., "A neural network-based approach to noise identification of interferometric GW antennas: the case of the 40 m Caltech laser interferometer", 2002CQGra..19.3293A ADS

De Rosa, M. L., Hurlburt, N. E., Alexander, D., & Rucklidge, A. M., "Numerical Simulations of Supergranular Magnetocvection", 2002AAS...200.0418D ADS

Zendri, J. P., Baggio, L., Bignotto, M., et al., "Status report and near future prospects for the gravitational wave detector AURIGA", 2002CQGra..19.1925Z ADS

De Rosa, M., Baggio, L., Cerdonio, M., et al., "First room temperature operation of the AURIGA optical readout", 2002CQGra..19.1919D ADS

Acernese, F., Amico, P., Arnaud, N., et al., "The present status of the VIRGO Central Interferometer\*The present status of the VIRGO Central Interferometer", 2002CQGra..19.1421A ADS

Zendri, J. P., Bignotto, M., Bonaldi, M., et al., "Advanced readout configurations for the gravitational wave detector AURIGA", 2002rdgr.conf..317Z ADS

Alexander, D., Hurlburt, N. E., Rucklidge, A. M., & De Rosa, M., "Coupled modeling of photospheric and coronal dynamics", 2001AGUFMSH11C0718A ADS

DeRosa, M. L.: 2001, "Dynamics in the upper solar convection zone", Ph.D. thesis, University of Colorado, Boulder 2001PhDT.....8D ADS

Toomre, J., Brun, A. S., De Rosa, M., Elliott, J. R., & Miesch, M. S., "Turbulent Convection and Subtleties of Differential Rotation Within the Sun", 2001IAUS...203..131T ADS

De Rosa, M. L. & Toomre, J., "Numerical simulations of supergranular scales of convection in shallow spherical shells", 2001ESASP.464..595D ADS

Lisle, J., De Rosa, M., & Toomre, J., "New Approach to Study Extended Evolution of Supergranular Flows and Their Advection of Magnetic Elements", 2000SoPh..197...21L ADS

Conti, L., Marin, F., de Rosa, M., et al., "An optical transduction chain for the AURIGA detector", 2000AIPC..523..261C ADS

De Rosa, M. L., Lisle, J. P., & Toomre, J., "Evolving Dynamics of the Supergranular Flow Field", 2000SPD...31.0106D ADS

De Rosa, M., Duvall, T. L., J., & Toomre, J., "Near-Surface Flow Fields Deduced Using Correlation Tracking and Time-Distance Analyses", 2000SoPh..192..351D ADS

Marin, F., de Rosa, M., Conti, L., et al., "An Optical Transducer for Bar Detectors", 2000epgw.conf..306M ADS

De Rosa, M. L., Toomre, J., & Duvall, T. L., J., "Comparison Between Near-Surface Flow Fields Deduced from Correlation Tracking and Time-Distance Helioseismology Methods", 1999AAS...194.5608D ADS

Lisle, J., de Rosa, M., & Toomre, J., "Long-Term Dynamics of Small-Scale Magnetic Flux Elements Embedded in the Near-Surface Velocity Field", 1999soho...9E..72L ADS

de Rosa, M., Toomre, J., & Duvall, T. L., J., "Comparison Between Near-Surface Flow Fields Deduced from Correlation Tracking and Time-Distance Helioseismology Methods", 1999soho...9E..51D ADS

de Rosa, M., Corsi, C., Gabrysch, M., & D'Amato, F., "Collisional broadening and shift of lines in the  $2v_1+2v_2+v_3$  band of CO<sub>2</sub>", 1999JQSRT...61...97D ADS

De Rosa, M. L. & Toomre, J., "Correlation Tracking of Mesogranules from SOI-MDI Doppler Images to Reveal Supergranular Flow Fields", 1998ESASP.418..753D ADS

De Rosa, M. L. & Toomre, J., "The Nature of Supergranulation from SOI-MDI Dopplergrams", 1997SPD...28.0257D ADS

Baldacchini, G., D'Amato, F., de Rosa, M., Buffa, G., & Tarrini, O., "Temperature dependence of self-shift of ammonia transitions in the  $v_2$  band.", 1996JQSRT...55..745B ADS

Thompson, M. J., Toomre, J., Anderson, E. R., et al., "Differential Rotation and Dynamics of the Solar Interior", 1996Sci...272.1300T ADS

Busatti, E., Ciucci, A., De Rosa, M., et al., "Propagation of electromagnetic waves in inhomogeneous plasmas", 1994JPh...52..443B ADS