

J. Todd Hoeksema - Published Papers

Refereed Publications

Fast and Accurate Emulation of the SDO/HMI Stokes Inversion with Uncertainty Quantification, Richard E.L. Higgins, David F Fouhey, Dichang Zhang, Spiro K. Antiochos,; Graham Barnes, J. Todd Hoeksema, K.D. Leka, Yang Liu; Peter W. Schuck, Tamas I. Gombosi, *The Astrophysical Journal* 911, 130, 2021, [2021ApJ...911..130H](#); 10.3847/1538-4357/abd7fe.

The Coronal Global Evolutionary Model: Using HMI Vector Magnetogram and Doppler Data to Determine Coronal Magnetic Field Evolution, J.T. Hoeksema, W.P. Abbett, D.J. Bercik, M.C.M. Cheung, M.L. DeRosa, G.L. Fisher, K. Hayashi, M.D. Kazachenko, Y. Liu, E. Lumme, B.J. Lynch, X. Sun, B.T. Welsch; *Astrophysical Journal Supplement*, 250, 28, 2020. [2020ApJS..250...28H](#); 10.3847/1538-4365/abb3fb.

The Solar Orbiter Magnetometer, T.S. Horbury et al. (49 authors, incl. T. Hoeksema); *Astronomy and Astrophysics*, 642, A9, 2020. [2020A&A...642A...9H](#), 10.1051/0004-6361/201937257.

The Deflection of Coronal Mass Ejections by the Ambient Coronal Magnetic Field Configuration, Jingjing Wang, J.T. Hoeksema, Siqing Liu; *Journal of Geophysical Research*, 125, e27530, 2020. [2020JGRA..12527530W](#); 10.1029/2019JA027530.

Roles of Photospheric Motions and Flux Emergence in the Major Solar Eruption on 2017 September 6, Rui Wang, Ying D. Liu, J.T. Hoeksema, I.V. Zimovets, Yang Liu, *Astrophysical Journal*, 869, 90, 2018. [2018ApJ...869...90W](#), 10.3847/1438-4357/aaed48.

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Flare Prediction Using Photospheric and Coronal Image Data, E. Jonas, M. Bobra, S. Vaishaal, J.T. Hoeksema, B. Recht, *Solar Physics*, 293, AID 48, 22 pp., 2018: [2018SoPh..293...48J](#), 10.1007/s11207-018-1258-9.

Erratum: Why Is the Great Solar Active Region 12192 Flare-rich but CME-poor?, X. Sun, M.G. Bobra, J.T. Hoeksema, Y. Liu, Y. Li, C. Shen, S. Couvidat, A.A. Norton, G.H. Fisher, *Astrophysical Journal Letters*, 804, L28, 2017. [2017ApJ...850L..43S](#), 10.3847/2041-8213/aa9b2a.

Investigating the Magnetic Imprints of Major Solar Eruptions with SDO/HMI High-cadence Vector Magnetograms, X. Sun, J.T. Hoeksema, Y. Liu, M. Kazachenko, R. Chen, *Astrophysical Journal* 839, AID 67, 10 pp., 2017. [2017ApJ...839...67S](#), 10.3847/1538-4357/aa69c1.

Vector Magnetic Field Synoptic Charts from the Helioseismic and Magnetic Imager (HMI), Y. Liu, J.T. Hoeksema, X. Sun, K. Hayashi, Solar Physics, 292, AID 29, 14 pp., 2017. 2017SoPh..292...29L, 10.1007/s11207-017-1056-9.

Erratum: Evolution of Magnetic Field and Energy in A Major Eruptive Active Region Based on SDO/HMI (2012 ApJ, 748, 77), X. Sun, J.T. Hoeksema, Y. Liu, T. Wiegmann, K. Hayashi, C. Qingrong, J. Thalmann, Astrophysical Journal, 828, AID 65, 2 pp., 2016. 2016ApJ...828...65S, 10.3847/0004-637X/828/1/65.

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