

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

- Matthews, S. A., Reid, H. A. S., Baker, D., et al., “*The high-energy Sun - probing the origins of particle acceleration on our nearest star*”, 2021ExA...tmp..135M [ADS](#)
- Georgoulis, M. K., Bloomfield, D. S., Piana, M., et al., “*The flare likelihood and region eruption forecasting (FLARECAST) project: flare forecasting in the big data & machine learning era*”, 2021JWSWC..11...39G [ADS](#)
- Downs, C., Warmuth, A., Long, D. M., et al., “*Validation of Global EUV Wave MHD Simulations and Observational Techniques*”, 2021ApJ...911..118D [ADS](#)
- Krucker, S., Hurford, G. J., Grimm, O., et al., “*The Spectrometer/Telescope for Imaging X-rays (STIX)*”, 2020A&A...642A..15K [ADS](#)
- Rees-Crockford, T., Bloomfield, D. S., Scullion, E., & Park, S. H., “*2D and 3D Analysis of a Torus-unstable Quiet-Sun Prominence Eruption*”, 2020ApJ...897...35R [ADS](#)
- Park, S.-H., Leka, K. D., Kusano, K., et al., “*A Comparison of Flare Forecasting Methods. IV. Evaluating Consecutive-day Forecasting Patterns*”, 2020ApJ...890..124P [ADS](#)
- Campi, C., Benvenuto, F., Massone, A. M., et al., “*Feature Ranking of Active Region Source Properties in Solar Flare Forecasting and the Uncompromised Stochasticity of Flare Occurrence*”, 2019ApJ...883..150C [ADS](#)
- Kontogiannis, I., Georgoulis, M. K., Guerra, J. A., Park, S.-H., & Bloomfield, D. S., “*Which Photospheric Characteristics Are Most Relevant to Active-Region Coronal Mass Ejections?*”, 2019SoPh..294..130K [ADS](#)
- Leka, K. D., Park, S.-H., Kusano, K., et al., “*A Comparison of Flare Forecasting Methods. II. Benchmarks, Metrics, and Performance Results for Operational Solar Flare Forecasting Systems*”, 2019ApJS..243...36L [ADS](#)
- Leka, K. D., Park, S.-H., Kusano, K., et al., “*A Comparison of Flare Forecasting Methods. III. Systematic Behaviors of Operational Solar Flare Forecasting Systems*”, 2019ApJ...881..101L [ADS](#)
- Domijan, K., Bloomfield, D. S., & Pitie, F., “*Solar Flare Forecasting from Magnetic Feature Properties Generated by the Solar Monitor Active Region Tracker*”, 2019SoPh..294...6D [ADS](#)
- Domijan, K., Bloomfield, D. S., & Pitie, F., “*Solar flare forecasting from magnetic feature properties generated by Solar Monitor Active Region Tracker*”, 2018arXiv181202652D [ADS](#)
- Park, S.-H., Guerra, J. A., Gallagher, P. T., Georgoulis, M. K., & Bloomfield, D. S., “*Photospheric Shear Flows in Solar Active Regions and Their Relation to Flare Occurrence*”, 2018SoPh..293...114P [ADS](#)
- McCloskey, A. E., Gallagher, P. T., & Bloomfield, D. S., “*Flare forecasting using the evolution of McIntosh sunspot classifications*”, 2018JWSWC...8A..34M [ADS](#)
- Florios, K., Kontogiannis, I., Park, S.-H., et al., “*Forecasting Solar Flares Using Magnetogram-based Predictors and Machine Learning*”, 2018SoPh..293...28F [ADS](#)
- Guerra, J. A., Park, S. H., Gallagher, P. T., et al., “*Active Region Photospheric Magnetic Properties Derived from Line-of-Sight and Radial Fields*”, 2018SoPh..293...9G [ADS](#)
- Georgoulis, M. K., Bloomfield, D., Piana, M., et al., “*The Next Level in Automated Solar Flare Forecasting: the EU FLARECAST Project*”, 2017AGUFMSA21C..07G [ADS](#)
- Long, D. M., Bloomfield, D. S., Chen, P. F., et al., “*Understanding the Physical Nature of Coronal “EIT Waves”*”, 2017SoPh..292...7L [ADS](#)
- Mullinix, R., Mays, M. L., Kuznetsova, M. M., et al., “*Community-wide space weather Scoreboards: Facilitating the Validation of Real-time CME, Flare, and SEP Forecasts*”, 2016AGUFMSH11C2256M [ADS](#)
- Guerra, J. A., Park, S. H., Kontogiannis, I., et al., “*Solar Magnetic Data Analysis for the FLARECAST Project*”, 2016AGUFMSH11C2234G [ADS](#)
- Morton, R. J., Scullion, E., Bloomfield, D. S., et al., “*Exploring Coronal Dynamics: A Next Generation Solar Physics Mission white paper*”, 2016arXiv161106149M [ADS](#)
- Long, D. M., Bloomfield, D. S., Chen, P. F., et al., “*Understanding the Physical Nature of Coronal “EIT Waves”*”, 2016usc..confE..24L [ADS](#)
- Barnes, G., Leka, K. D., Schrijver, C. J., et al., “*A Comparison of Flare Forecasting Methods. I. Results from the textquotedblleftAll-Cleartextquotedblright Workshop*”, 2016ApJ...829...89B [ADS](#)
- McCloskey, A. E., Gallagher, P. T., & Bloomfield, D. S., “*Flaring Rates and the Evolution of Sunspot Group McIntosh Classifications*”, 2016SoPh..291.1711M [ADS](#)
- Georgoulis, M. K., Pariat, E., Massone, A. M., et al., “*Enabling Solar Flare Forecasting at an Unprecedented Level: the FLARECAST Project*”, 2016cosp...41E.657G [ADS](#)
- Morosan, D. E., Zucca, P., Bloomfield, D. S., & Gallagher, P. T., “*Conditions for electron-cyclotron maser emission in the solar corona*”, 2016A&A...589L...8M [ADS](#)
- Bloomfield, D. S., Gallagher, P. T., Marquette, W. H., Milligan, R. O., & Canfield, R. C., “*Performance of Major Flare Watches from the Max Millennium Program (2001 - 2010)*”, 2016SoPh..291..411B [ADS](#)
- Long, D. M., Bloomfield, D. S., Gallagher, P. T., & Pérez-Suárez, D., “*CorPITA: An Automated Algorithm for the Identification and Analysis of Coronal “EIT Waves”*”, 2014SoPh..289.3279L [ADS](#)
- Higgins, P. A., Schrijver, C. J., Title, A. M., Bloomfield, D. S., & Gallagher, P. T., “*A study of sympathetic eruptions using the Heliophysics Events Knowledge-base*”, 2014AAS...22412316H [ADS](#)
- Zucca, P., Carley, E. P., Bloomfield, D. S., & Gallagher, P. T., “*The formation heights of coronal shocks from 2D density and Alfvén speed maps*”, 2014A&A...564A..47Z [ADS](#)
- Carley, E. P., Long, D. M., Byrne, J. P., et al., “*Quasiperiodic acceleration of electrons by a plasmoid-driven shock in the solar atmosphere*”, 2013NatPh..9...811C [ADS](#)
- McAteer, R. T. J. & Bloomfield, D. S., “*The Bursty Nature of Solar Flare X-Ray Emission. II. The Neupert Effect*”, 2013ApJ...776...66M [ADS](#)
- Calabro, B., McAteer, R. T. J., & Bloomfield, D. S., “*Oscillatory Behavior in the Corona*”, 2013SoPh..286..405C [ADS](#)
- Byrne, J. P., Long, D. M., Gallagher, P. T., et al., “*Improved methods for determining the kinematics of coronal mass ejections and coronal waves*”, 2013A&A...557A..96B [ADS](#)
- Raftery, C. L., Bloomfield, D. S., Gallagher, P. T., et al., “*Temperature Response of the 171 Å Passband of the SWAP Imager on PROBA2, with a Comparison to TRACE, SOHO, STEREO, and SDO*”, 2013SoPh..286..111R [ADS](#)
- Zender, J., Berghmans, D., Bloomfield, D. S., et al., “*The Projects for Onboard Autonomy (PROBA2) Science Centre: Sun Watcher Using APS Detectors and Image Processing (SWAP) and Large-Yield Radiometer (LYRA) Science Operations and Data Products*”, 2013SoPh..286...93Z [ADS](#)
- Seaton, D. B., Berghmans, D., Nicula, B., et al., “*The SWAP EUV Imaging Telescope Part I: Instrument Overview and Pre-Flight Testing*”, 2013SoPh..286...43S [ADS](#)
- Higgins, P. A., Bloomfield, D. S., & Gallagher, P. T., “*Measuring the Diffusion of Solar Magnetic Flux on Large Spatio-Temporal Scales*”, 2013shin.confE..91H [ADS](#)
- Long, D. M., Bloomfield, D. S., Feeney-Barry, R., Gallagher, P. T., & Pérez-Suárez, D., “*The Coronal Pulse Identification and Tracking Algorithm (CorPITA)*”, 2013enss.confE..68L [ADS](#)
- Ahmed, O. W., Qahwaji, R., Colak, T., et al., “*Solar Flare Prediction Using Advanced Feature Extraction, Machine Learning, and Feature Selection*”, 2013SoPh..283.157A [ADS](#)
- Murray, S. A., Bloomfield, D. S., & Gallagher, P. T., “*Evidence for partial Taylor relaxation from changes in magnetic geometry and energy during a solar flare*”, 2013A&A...550A.119M [ADS](#)
- Pérez-Suárez, D., Maloney, S. A., Higgins, P. A., et al., “*Studying Sun-Planet Connections Using the Heliophysics Integrated Observatory (HELI-O)*”, 2012SoPh..280...603P [ADS](#)
- Benz, A. O., Krucker, S., Hurford, G. J., et al., “*The spectrometer telescope for imaging x-rays on board the Solar Orbiter mission*”, 2012SPIE.8443E..3LB [ADS](#)
- Murray, S. A., Bloomfield, D. S., & Gallagher, P. T., “*The Evolution of Sunspot Magnetic Fields Associated with a Solar Flare*”, 2012SoPh..277...45M [ADS](#)
- Bloomfield, D. S., Higgins, P. A., McAteer, R. T. J., & Gallagher, P. T., “*Toward Reliable Benchmarking of Solar Flare Forecasting Methods*”, 2012ApJ...747L..41B [ADS](#)
- Higgins, P. A., Bloomfield, D. S., & Gallagher, P. T., “*Active Regions and the Global Magnetic Field of the Sun*”, 2011AGUFMSH43B1940H [ADS](#)
- Long, D. M., Gallagher, P. T., McAteer, R. T. J., & Bloomfield, D. S., “*Deceleration and dispersion of large-scale coronal bright fronts*”, 2011A&A...531A..42L [ADS](#)
- Higgins, P. A., Gallagher, P. T., McAteer, R. T. J., & Bloomfield, D. S., “*Solar magnetic feature detection and tracking for space weather monitoring*”, 2011AdSpR..47.2105H [ADS](#)
- Krista, L. D., Gallagher, P. T., & Bloomfield, D. S., “*Short-term Evolution of Coronal Hole Boundaries*”, 2011ApJ...731L..26K [ADS](#)
- Pérez-Suárez, D., Higgins, P. A., Bloomfield, D. S., et al., “*Automated Solar Feature Detection for Space Weather Applications*”, in Applied Signal and Image Processing: Multidisciplinary Advancements (ed. Rami Qahwaji, 207–225 2011asip.book..207P) [ADS](#)
- Higgins, P., Gallagher, P. T., & Bloomfield, D., “*The Solar Cycle Dependence of Active Region Properties*”, 2010AGUFMSH53B..01H [ADS](#)
- Bloomfield, D. S., “*Solar flares: Multiscale detection and analysis*”, 2010ada..confE..6B [ADS](#)
- Higgins, P., Gallagher, P., McAteer, R., & Bloomfield, D., “*The SolarMonitor Active Region Tracking (SMART) Algorithm: Variation of magnetic feature properties through solar cycle 23*”, 2009AGUFMSH51B1278H [ADS](#)
- Raftery, C., Bloomfield, D. S., & Gallagher, P., “*The Temperature Response of EUV Imagers*”, 2009SPD...40.1213R [ADS](#)

- Andic, A., Jess, D. B., Mathioudakis, M., Keenan, F. P., & Bloomfield, D. S., "Possible Connection Between Umbral and Bright Point Oscillations", 2009SPD...40..0909A [ADS](#)
- Long, D. M., Gallagher, P. T., McAteer, R. T. J., & Bloomfield, D. S., "The Kinematics of a Globally Propagating Disturbance in the Solar Corona", 2008ApJ...680L..81L [ADS](#)
- Jess, D. B., McAteer, R. T. J., Mathioudakis, M., et al., "Twisting flux tubes as a cause of micro-flaring activity", 2008IAUS..247..360J [ADS](#)
- Andic, A., Mathioudakis, M., Keenan, F. P., Jess, D. B., & Bloomfield, D. S., "High frequency oscillations in the solar chromosphere and their connection with heating", 2008IAUS..247..312A [ADS](#)
- Bloomfield, D. S., Lagg, A., & Solanki, S. K., "The nature of running penumbral waves revealed", 2008IAUS..247..55B [ADS](#)
- Bloomfield, D. S., Lagg, A., & Solanki, S. K., "The Nature of Running Penumbra Waves Revealed", 2007ApJ...671.1005B [ADS](#)
- Jess, D. B., McAteer, R. T. J., Mathioudakis, M., et al., "Twisting flux tubes as a cause of micro-flaring activity", 2007A&A...476..971J [ADS](#)
- Jess, D. B., Andić, A., Mathioudakis, M., Bloomfield, D. S., & Keenan, F. P., "High-frequency oscillations in a solar active region observed with the RAPID DUAL IMAGER", 2007A&A...473..943J [ADS](#)
- Bloomfield, D. S., Solanki, S. K., Lagg, A., Borrero, J. M., & Cally, P. S., "Modified p-modes in penumbral filaments", 2007A&A...469.1155B [ADS](#)
- Bloomfield, D. S., Lagg, A., & Solanki, S. K., "Observations of Running Waves in a Sunspot Chromosphere", 2007ASPC..368..239B [ADS](#)
- Kontogiannis, G., Bloomfield, D. S., McAteer, J. R. T., Mathioudakis, M., & Antonopoulou, E., "Detection of MHD waves in the solar chromosphere", 2007AIPC..895..80K [ADS](#)
- Bloomfield, D. S., Lagg, A., Solanki, S. K., & Borrero, J. M., "Modified p-modes in penumbral filaments", 2007msfa.conf..241B [ADS](#)
- Bloomfield, D. S., McAteer, R. T. J., Mathioudakis, M., & Keenan, F. P., "The Influence of Magnetic Field on Oscillations in the Solar Chromosphere", 2006ApJ...652..812B [ADS](#)
- Mathioudakis, M., Bloomfield, D. S., Jess, D. B., Dhillon, V. S., & Marsh, T. R., "The periodic variations of a white-light flare observed with ULTRACAM", 2006A&A...456..323M [ADS](#)
- Kontogiannis, G., Bloomfield, D. S., McAteer, J. R. T., Mathioudakis, M., & Antonopoulou, E., "Traveling Waves In Network Bright Points", 2006AIPC..848..229K [ADS](#)
- Christian, D. J., Mathioudakis, M., Bloomfield, D. S., et al., "Opacity in the upper atmospheres of active stars. II. AD Leonis", 2006A&A...454..889C [ADS](#)
- Keenan, F. P., Drake, J. J., Chung, S., et al., "Soft X-Ray Emission Lines of Fe XV in Solar Flare Observations and the Chandra Spectrum of Capella", 2006ApJ...645..597K [ADS](#)
- Mathioudakis, M., Christian, D. J., Bloomfield, D. S., et al., "Opacity in the transition region of cool dwarfs: A powerful diagnostic", 2006ASPC..348..159M [ADS](#)
- Mullan, D. J., Mathioudakis, M., Bloomfield, D. S., & Christian, D. J., "A Comparative Study of Flaring Loops in Active Stars", 2006ApJS..164..173M [ADS](#)
- Keenan, F. P., Aggarwal, K. M., Bloomfield, D. S., Msezane, A. Z., & Widing, K. G., "An investigation of Fe XV emission lines in solar flare spectra", 2006A&A...449.1203K [ADS](#)
- Milligan, R. O., Gallagher, P. T., Mathioudakis, M., et al., "RHESSI and SOHO CDS Observations of Explosive Chromospheric Evaporation", 2006ApJ...638L.117M [ADS](#)
- Milligan, R. O., Gallagher, P. T., Mathioudakis, M., Keenan, F. P., & Bloomfield, D. S., "Plasma diagnostics of active-region evolution and implications for coronal heating", 2005MNRAS.363..259M [ADS](#)
- Drake, J. J., Keenan, F. P., Chung, S., et al., "Soft X-ray emission lines of Fe XV in spectra of the Sun and Capella", 2005AIPC..774..349D [ADS](#)
- Keenan, F. P., Aggarwal, K. M., Ryans, R. S. I., et al., "Fe XI Emission Lines in a High-Resolution Extreme-Ultraviolet Active Region Spectrum Obtained by the Solar Extreme Ultraviolet Research Telescope and Spectrograph", 2005ApJ...624..428K [ADS](#)
- McAteer, R. T. & Bloomfield, D. S., "Wavelet Analysis Methods of Oscillatory Power in Chromospheric Lightcurves", 2005AGUSSMH13C..07M [ADS](#)
- Mathioudakis, M., Bloomfield, D. S., Dhillon, V. S., & Marsh, T. R., "Intensity oscillations during a flare on EQ Peg", 2005ESASP.560..803M [ADS](#)
- Bloomfield, D. S., McAteer, R. T. J., Mathioudakis, M., Williams, D. R., & Keenan, F. P., "Magnetohydrodynamic mode coupling in the quiet-Sun network", 2005ESASP.560..449B [ADS](#)
- Keenan, F. P., Aggarwal, K. M., Milligan, R. O., et al., "Emission lines of FeXV in spectra obtained with the Solar Extreme-Ultraviolet Research Telescope and Spectrograph", 2005MNRAS.356.1592K [ADS](#)
- McAteer, R. T. J., Gallagher, P. T., Brown, D. S., et al., "Observations of Hα Intensity Oscillations in a Flare Ribbon", 2005ApJ...620.1101M [ADS](#)
- Bloomfield, D. S.: 2005, "Oscillatory phenomena in solar and stellar atmospheres", Ph.D. thesis, Queens University Belfast, Ireland 2005PhDT.....17B [ADS](#)
- Wiersema, K., Rol, E., Starling, R., et al., "GRB 050724: WHT optical observations.", 2005GCN..3699....1W [ADS](#)
- Bloomfield, D. S., McAteer, R. T. J., Lites, B. W., et al., "Wavelet Phase Coherence Analysis: Application to a Quiet-Sun Magnetic Element", 2004ApJ...617..623B [ADS](#)
- Christian, D. J., Mathioudakis, M., Bloomfield, D. S., Dupuis, J., & Keenan, F. P., "A Detailed Study of Opacity in the Upper Atmosphere of Proxima Centauri", 2004ApJ...612.1140C [ADS](#)
- Bloomfield, D. S., McAteer, R. T. J., Mathioudakis, M., Williams, D. R., & Keenan, F. P., "Erratum: "Propagating Waves and Magnetohydrodynamic Mode Coupling in the Quiet-Sun Network" (ApJ, 604, 936 [2004J])", 2004ApJ...609..465B [ADS](#)
- Milligan, R. O., Gallagher, P. T., Mathioudakis, M., Bloomfield, D. S., & Keenan, F. P., "Plasma Diagnostics of Active Region Evolution and Implications for Coronal Heating", 2004AAS...204.9803M [ADS](#)
- Bloomfield, D. S., McAteer, R. T. J., Mathioudakis, M., Williams, D. R., & Keenan, F. P., "Propagating Waves and Magnetohydrodynamic Mode Coupling in the Quiet-Sun Network", 2004ApJ...604..936B [ADS](#)
- McAteer, R. T. J., Gallagher, P. T., Bloomfield, D. S., et al., "Ultraviolet Oscillations in the Chromosphere of the Quiet Sun", 2004ApJ...602..436M [ADS](#)
- Avgoilopis, S., Seiradakis, J. H., Mathioudakis, M., Bloomfield, D. S., & McAteer, J., "Intensity Oscillations During a flare on II Peg", 2004hecl.conf..120A [ADS](#)
- McAteer, R. T. J., Gallagher, P. T., Williams, D. R. W. D. R., et al., "An Automated Wavelet Analysis Approach to TRACE Quiet Sun Oscillations", 2004ESASP.547..139M [ADS](#)
- Bloomfield, D. S., McAteer, R. T. J., Lites, B. W., et al., "Oscillatory Signatures above Quiet Sun Magnetic Elements", 2004ESASP.547..51B [ADS](#)
- Mathioudakis, M., Seiradakis, J. H., Williams, D. R., et al., "White-light oscillations during a flare on II Peg.", 2003A&A...403.1101M [ADS](#)
- McAteer, R. T. J., Gallagher, P. T., Williams, D. R., et al., "Observational Evidence for Mode Coupling in the Chromospheric Network", 2003ApJ...587..806M [ADS](#)
- Bloomfield, D. S. & Mathioudakis, M., "A Study Of Extreme Ultraviolet Flare Activity On Late-Type Stars", 2002ASPC..277..425B [ADS](#)
- Bloomfield, D. S., Mathioudakis, M., Christian, D. J., Keenan, F. P., & Linsky, J. L., "Opacity in the upper atmosphere of AU Mic", 2002A&A...390..219B [ADS](#)