ADS Paper Titles and Keywords

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| Paper Title | Keywords |
| A physics-based method that can predict imminent large solar flares | ASTRONOMY; PHYSICS |
| The NWRA Classification Infrastructure: description and extension to the Discriminant Analysis Flare Forecasting System (DAFFS) | Sun, statistical analysis, flares, prediction, Discriminant Analysis, Bayes, Astrophysics - Solar and Stellar Astrophysics, Physics - Data Analysis, Statistics and Probability, Physics - Space Physics |
| An MHD Modeling of the Successive X2.2 and X9.3 Solar Flares of 2017 September 6 | Magnetohydrodynamical simulations, Solar flares, Solar magnetic fields, Solar active regions, 1966, 1496, 1503, 1974, Astrophysics - Solar and Stellar Astrophysics |
| Magnetic Helicity Flux across Solar Active Region Photospheres. II. Association of Hemispheric Sign Preference with Flaring Activity during Solar Cycle 24 | Solar magnetic fields, Solar active region magnetic fields, Solar active region velocity fields, Solar active regions, Solar activity, Solar photosphere, Astronomy data analysis, Solar x-ray flares, 1503, 1975, 1976, 1974, 1475, 1518, 1858, 1816, Astrophysics - Solar and Stellar Astrophysics, Physics - Plasma Physics, Physics - Space Physics |
| Properties of Flare-imminent versus Flare-quiet Active Regions from the Chromosphere through the Corona. II. Nonparametric Discriminant Analysis Results from the NWRA Classification Infrastructure (NCI) | Solar atmosphere, Active solar corona, Solar flares, Solar activity, Astrostatistics techniques, 1477, 1988, 1496, 1475, 1886, Astrophysics - Solar and Stellar Astrophysics |
| Solar Flare Forecasting: Present Methods and Challenges |  |
| Solar Flares and Magnetic Helicity | Solar flares, Coronal mass ejections, Active regions, Magnetic fields, Magnetic helicity, Astrophysics - Solar and Stellar Astrophysics, Physics - Plasma Physics |
| A Comparison of Flare Forecasting Methods. II. Benchmarks, Metrics, and Performance Results for Operational Solar Flare Forecasting Systems | methods: data analysis, methods: statistical, Sun: activity, Sun: flares, Sun: magnetic fields, Astrophysics - Solar and Stellar Astrophysics, Astrophysics - Instrumentation and Methods for Astrophysics, Physics - Data Analysis, Statistics and Probability, Physics - Space Physics |
| A Comparison of Flare Forecasting Methods. III. Systematic Behaviors of Operational Solar Flare Forecasting Systems | methods: statistical, methods: data analysis, Sun: magnetic fields, Sun: flares, Sun: activity, Astrophysics - Solar and Stellar Astrophysics, Astrophysics - Instrumentation and Methods for Astrophysics, Physics - Data Analysis, Statistics and Probability, Physics - Space Physics |
| A Comparison of Flare Forecasting Methods. IV. Evaluating Consecutive-day Forecasting Patterns | The Sun, Solar magnetic fields, Solar flares, Solar activity, Solar active region magnetic fields, Sunspots, Solar x-ray flares, Astronomy data analysis, Astronomy data visualization, Astrostatistics tools, 1693, 1503, 1496, 1475, 1975, 1653, 1816, 1858, 1968, 1887, Astrophysics - Solar and Stellar Astrophysics |
| Lagrangian chaotic saddles and objective vortices in solar plasmas |  |
| Testing and Improving a Set of Morphological Predictors of Flaring Activity | Active regions, magnetic fields, Flares, forecasting, Astrophysics - Solar and Stellar Astrophysics |
| Which Photospheric Characteristics Are Most Relevant to Active-Region Coronal Mass Ejections? | Active regions, magnetic fields, Flares, forecasting, Coronal mass ejections, initiation and propagation, Astrophysics - Solar and Stellar Astrophysics |
| Connecting Coronal Mass Ejections to Their Solar Active Region Sources: Combining Results from the HELCATS and FLARECAST Projects | Active regions, magnetic fields, Coronal mass ejections, initiation and propagation, Flares, forecasting, relation to magnetic field, Sunspots, Astrophysics - Solar and Stellar Astrophysics |
| Non-neutralized Electric Currents in Solar Active Regions and Flare Productivity | Active regions, Magnetic fields, Electric currents and current sheets, Flares, Forecasting, Astrophysics - Solar and Stellar Astrophysics |
| The flare likelihood and region eruption forecasting (FLARECAST) project: flare forecasting in the big data &amp; machine learning era | Sun, solar flares, solar flare forecasting, machine learning, big data, computer science, Astrophysics - Solar and Stellar Astrophysics |
| Forecasting Solar Flares Using Magnetogram-based Predictors and Machine Learning | Flares, forecasting, relation to magnetic field, Active regions, magnetic fields, Astrophysics - Solar and Stellar Astrophysics |
| Flux emergence and generation of flare-productive active regions | Solar flares, Coronal mass ejections, Sunspots, Active regions, Magnetohydrodynamics, Astrophysics - Solar and Stellar Astrophysics |
| Flare-productive active regions | Active regions, Magnetic fields active regions, Structure coronal mass ejections, Initiation and propagation flares, Dynamics flares, Models magnetohydrodynamics, Astrophysics - Solar and Stellar Astrophysics |

# Distinct Keywords (Sorted)

* 1475
* 1477
* 1496
* 1503
* 1518
* 1653
* 1693
* 1816
* 1858
* 1886
* 1887
* 1966
* 1968
* 1974
* 1975
* 1976
* 1988
* active regions
* active solar corona
* astronomy data analysis
* astronomy data visualization
* astronomy; physics
* astrophysics - instrumentation and methods for astrophysics
* astrophysics - solar and stellar astrophysics
* astrostatistics techniques
* astrostatistics tools
* bayes
* big data
* computer science
* coronal mass ejections
* discriminant analysis
* dynamics flares
* electric currents and current sheets
* flares
* forecasting
* initiation and propagation
* initiation and propagation flares
* machine learning
* magnetic fields
* magnetic fields active regions
* magnetic helicity
* magnetohydrodynamical simulations
* magnetohydrodynamics
* methods: data analysis
* methods: statistical
* models magnetohydrodynamics
* physics - data analysis
* physics - plasma physics
* physics - space physics
* prediction
* relation to magnetic field
* solar active region magnetic fields
* solar active region velocity fields
* solar active regions
* solar activity
* solar atmosphere
* solar flare forecasting
* solar flares
* solar magnetic fields
* solar photosphere
* solar x-ray flares
* statistical analysis
* statistics and probability
* structure coronal mass ejections
* sun
* sun: activity
* sun: flares
* sun: magnetic fields
* sunspots
* the sun