# Amy McGovern

List of Publications by Year
in descending order



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|---|---|---|---|
| 33 papers | 1,389 citations | 394421 19 h-index | 454955 30 g-index |
| 33 all docs | 33 docs citations | 33 times ranked | 1277 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Why we need to focus on developing ethical, responsible, and trustworthy artificial intelligence approaches for environmental science. , 2022, 1, . | | 22 |
| 2 | Outlook for Exploiting Artificial Intelligence in the Earth and Environmental Sciences. Bulletin of the American Meteorological Society, 2021, 102, E1016-E1032. | 3.3 | 32 |
| 3 | Using Machine Learning to Generate Storm-Scale Probabilistic Guidance of Severe Weather Hazards in the Warn-on-Forecast System. Monthly Weather Review, 2021, 149, 1535-1557. | 1.4 | 16 |
| 4 | CREST-iMAP v1.0: A fully coupled hydrologic-hydraulic modeling framework dedicated to flood inundation mapping and prediction. Environmental Modelling and Software, 2021, 141, 105051. | 4.5 | 22 |
| 5 | Calibration of Machine Learningâ€"Based Probabilistic Hail Predictions for Operational Forecasting. Weather and Forecasting, 2020, 35, 149-168. | 1.4 | 27 |
| 6 | Climatology and Variability of Warm and Cold Fronts over North America from 1979 to 2018. Journal of Climate, 2020, 33, 6531-6554. | 3.2 | 15 |
| 7 | Deep Learning on Three-Dimensional Multiscale Data for Next-Hour Tornado Prediction. Monthly Weather Review, 2020, 148, 2837-2861. | 1.4 | 43 |
| 8 | Data Availability Principles and Practice. Weather and Forecasting, 2020, 35, 2217. | 1.4 | 0 |
| 9 | Development of a Probabilistic Subfreezing Road Temperature Nowcast and Forecast Using Machine Learning. Weather and Forecasting, 2020, 35, 1845-1863. | 1.4 | 12 |
| 10 | Automated detection of bird roosts using <scp>NEXRAD</scp> radar data and Convolutional Neural Networks. Remote Sensing in Ecology and Conservation, 2019, 5, 20-32. | 4.3 | 33 |
| 11 | Postprocessing Next-Day Ensemble Probabilistic Precipitation Forecasts Using Random Forests. Weather and Forecasting, 2019, 34, 2017-2044. | 1.4 | 22 |
| 12 | Quasi-Operational Testing of Real-Time Storm-Longevity Prediction via Machine Learning. Weather and Forecasting, 2019, 34, 1437-1451. | 1.4 | 7 |
| 13 | Deep Learning for Spatially Explicit Prediction of Synoptic-Scale Fronts. Weather and Forecasting, 2019, 34, 1137-1160. | 1.4 | 64 |
| 14 | Making the Black Box More Transparent: Understanding the Physical Implications of Machine Learning. Bulletin of the American Meteorological Society, 2019, 100, 2175-2199. | 3.3 | 251 |
| 15 | A Framework for Sustained Climate Assessment in the United States. Bulletin of the American Meteorological Society, 2019, 100, 897-907. | 3.3 | 10 |
| 16 | Evaluating Knowledge to Support Climate Action: A Framework for Sustained Assessment. Report of an Independent Advisory Committee on Applied Climate Assessment. Weather, Climate, and Society, 2019, 11, 465-487. | 1.1 | 35 |
| 17 | Classifying Convective Storms Using Machine Learning. Weather and Forecasting, 2019, 35, 537-559. | 1.4 | 28 |
| 18 | Evaluation of statistical learning configurations for gridded solar irradiance forecasting. Solar Energy, 2017, 150, 383-393. | 6.1 | 30 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Using Artificial Intelligence to Improve Real-Time Decision-Making for High-Impact Weather. Bulletin of the American Meteorological Society, 2017, 98, 2073-2090. | 3.3 | 239 |
| 20 | Storm-Based Probabilistic Hail Forecasting with Machine Learning Applied to Convection-Allowing Ensembles. Weather and Forecasting, 2017, 32, 1819-1840. | 1.4 | 104 |
| 21 | Machine Learning for Real-Time Prediction of Damaging Straight-Line Convective Wind. Weather and Forecasting, 2017, 32, 2175-2193. | 1.4 | 60 |
| 22 | Solar Energy Prediction: An International Contest to Initiate Interdisciplinary Research on Compelling Meteorological Problems. Bulletin of the American Meteorological Society, 2015, 96, 1388-1395. | 3.3 | 25 |
| 23 | An Automated, Multiparameter Dryline Identification Algorithm. Weather and Forecasting, 2015, 30, 1781-1794. | 1.4 | 11 |
| 24 | A Summary of the Twenty-Ninth AAAI Conference on Artificial Intelligence. AI Magazine, 2015, 36, 99-106. | 1.6 | 0 |
| 25 | Storm Evader: Using an iPad to Teach Kids about Meteorology and Technology. Bulletin of the American Meteorological Society, 2015, 96, 397-404. | 3.3 | 2 |
| 26 | Machine Learning Enhancement of Storm-Scale Ensemble Probabilistic Quantitative Precipitation Forecasts. Weather and Forecasting, 2014, 29, 1024-1043. | 1.4 | 59 |
| 27 | Enhancing understanding and improving prediction of severe weather through spatiotemporal relational learning. Machine Learning, 2014, 95, 27-50. | 5.4 | 39 |
| 28 | Enhanced spatiotemporal relational probability trees and forests. Data Mining and Knowledge Discovery, 2013, 26, 398-433. | 3.7 | 9 |
| 29 | Identifying predictive multi-dimensional time series motifs: an application to severe weather prediction. Data Mining and Knowledge Discovery, 2011, 22, 232-258. | 3.7 | 79 |
| 30 | Machine learning in space: extending our reach. Machine Learning, 2011, 84, 335-340. | 5.4 | 19 |
| 31 | Classification of Convective Areas Using Decision Trees. Journal of Atmospheric and Oceanic Technology, 2009, 26, 1341-1353. | 1.3 | 46 |
| 32 | Optimistic pruning for multiple instance learning. Pattern Recognition Letters, 2008, 29, 1252-1260. | 4.2 | 4 |
| 33 | Building a Basic Block Instruction Scheduler with Reinforcement Learning and Rollouts. Machine Learning, 2002, 49, 141-160. | 5.4 | 24 |