

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	Making the Black Box More Transparent: Understanding the Physical Implications of Machine Learning. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 2175-2199.	3.3	251
2	Using Artificial Intelligence to Improve Real-Time Decision-Making for High-Impact Weather. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 2073-2090.	3.3	239
3	Storm-Based Probabilistic Hail Forecasting with Machine Learning Applied to Convection-Allowing Ensembles. <i>Weather and Forecasting</i> , 2017, 32, 1819-1840.	1.4	104
4	Identifying predictive multi-dimensional time series motifs: an application to severe weather prediction. <i>Data Mining and Knowledge Discovery</i> , 2011, 22, 232-258.	3.7	79
5	Deep Learning for Spatially Explicit Prediction of Synoptic-Scale Fronts. <i>Weather and Forecasting</i> , 2019, 34, 1137-1160.	1.4	64
6	Machine Learning for Real-Time Prediction of Damaging Straight-Line Convective Wind. <i>Weather and Forecasting</i> , 2017, 32, 2175-2193.	1.4	60
7	Machine Learning Enhancement of Storm-Scale Ensemble Probabilistic Quantitative Precipitation Forecasts. <i>Weather and Forecasting</i> , 2014, 29, 1024-1043.	1.4	59
8	Classification of Convective Areas Using Decision Trees. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 1341-1353.	1.3	46
9	Deep Learning on Three-Dimensional Multiscale Data for Next-Hour Tornado Prediction. <i>Monthly Weather Review</i> , 2020, 148, 2837-2861.	1.4	43
10	Enhancing understanding and improving prediction of severe weather through spatiotemporal relational learning. <i>Machine Learning</i> , 2014, 95, 27-50.	5.4	39
11	Evaluating Knowledge to Support Climate Action: A Framework for Sustained Assessment. Report of an Independent Advisory Committee on Applied Climate Assessment. <i>Weather, Climate, and Society</i> , 2019, 11, 465-487.	1.1	35
12	Automated detection of bird roosts using NEXRAD radar data and Convolutional Neural Networks. <i>Remote Sensing in Ecology and Conservation</i> , 2019, 5, 20-32.	4.3	33
13	Outlook for Exploiting Artificial Intelligence in the Earth and Environmental Sciences. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1016-E1032.	3.3	32
14	Evaluation of statistical learning configurations for gridded solar irradiance forecasting. <i>Solar Energy</i> , 2017, 150, 383-393.	6.1	30
15	Classifying Convective Storms Using Machine Learning. <i>Weather and Forecasting</i> , 2019, 35, 537-559.	1.4	28
16	Calibration of Machine Learning-Based Probabilistic Hail Predictions for Operational Forecasting. <i>Weather and Forecasting</i> , 2020, 35, 149-168.	1.4	27
17	Solar Energy Prediction: An International Contest to Initiate Interdisciplinary Research on Compelling Meteorological Problems. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1388-1395.	3.3	25
18	Building a Basic Block Instruction Scheduler with Reinforcement Learning and Rollouts. <i>Machine Learning</i> , 2002, 49, 141-160.	5.4	24

#	ARTICLE	IF	CITATIONS
19	Postprocessing Next-Day Ensemble Probabilistic Precipitation Forecasts Using Random Forests. <i>Weather and Forecasting</i> , 2019, 34, 2017-2044.	1.4	22
20	CREST-iMAP v1.0: A fully coupled hydrologic-hydraulic modeling framework dedicated to flood inundation mapping and prediction. <i>Environmental Modelling and Software</i> , 2021, 141, 105051.	4.5	22
21	Why we need to focus on developing ethical, responsible, and trustworthy artificial intelligence approaches for environmental science. , 2022, 1, .		22
22	Machine learning in space: extending our reach. <i>Machine Learning</i> , 2011, 84, 335-340.	5.4	19
23	Using Machine Learning to Generate Storm-Scale Probabilistic Guidance of Severe Weather Hazards in the Warn-on-Forecast System. <i>Monthly Weather Review</i> , 2021, 149, 1535-1557.	1.4	16
24	Climatology and Variability of Warm and Cold Fronts over North America from 1979 to 2018. <i>Journal of Climate</i> , 2020, 33, 6531-6554.	3.2	15
25	Development of a Probabilistic Subfreezing Road Temperature Nowcast and Forecast Using Machine Learning. <i>Weather and Forecasting</i> , 2020, 35, 1845-1863.	1.4	12
26	An Automated, Multiparameter Dryline Identification Algorithm. <i>Weather and Forecasting</i> , 2015, 30, 1781-1794.	1.4	11
27	A Framework for Sustained Climate Assessment in the United States. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 897-907.	3.3	10
28	Enhanced spatiotemporal relational probability trees and forests. <i>Data Mining and Knowledge Discovery</i> , 2013, 26, 398-433.	3.7	9
29	Quasi-Operational Testing of Real-Time Storm-Longevity Prediction via Machine Learning. <i>Weather and Forecasting</i> , 2019, 34, 1437-1451.	1.4	7
30	Optimistic pruning for multiple instance learning. <i>Pattern Recognition Letters</i> , 2008, 29, 1252-1260.	4.2	4
31	Storm Evader: Using an iPad to Teach Kids about Meteorology and Technology. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 397-404.	3.3	2
32	A Summary of the Twenty-Ninth AAAI Conference on Artificial Intelligence. <i>AI Magazine</i> , 2015, 36, 99-106.	1.6	0
33	Data Availability Principles and Practice. <i>Weather and Forecasting</i> , 2020, 35, 2217.	1.4	0