

Alan W Seed

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,867
citations

257450

24
h-index

315739

38
g-index

38
all docs

38
docs citations

38
times ranked

1356
citing authors

#	ARTICLE	IF	CITATIONS
1	STEPS: A probabilistic precipitation forecasting scheme which merges an extrapolation nowcast with downscaled NWP. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 2127-2155.	2.7	245
2	A simple scaling model for extreme rainfall. Water Resources Research, 1999, 35, 335-339.	4.2	144
3	Multiscaling properties of rainfall and bounded random cascades. Water Resources Research, 1997, 33, 2823-2830.	4.2	141
4	Development of a precipitation nowcasting algorithm based upon optical flow techniques. Journal of Hydrology, 2004, 288, 74-91.	5.4	135
5	Pysteps: an open-source Python library for probabilistic precipitation nowcasting (v1.0). Geoscientific Model Development, 2019, 12, 4185-4219.	3.6	98
6	Correcting of real-time radar rainfall bias using a Kalman filtering approach. Journal of Hydrology, 2006, 317, 123-137.	5.4	93
7	Formulation and evaluation of a scale decomposition-based stochastic precipitation nowcast scheme. Water Resources Research, 2013, 49, 6624-6641.	4.2	75
8	An Integrated Approach to Error Correction for Real-Time Radar-Rainfall Estimation. Journal of Atmospheric and Oceanic Technology, 2006, 23, 67-79.	1.3	71
9	Sydney 2000 Forecast Demonstration Project: Convective Storm Nowcasting. Weather and Forecasting, 2004, 19, 131-150.	1.4	70
10	Radar rainfall error variance and its impact on radar rainfall calibration. Physics and Chemistry of the Earth, 2003, 28, 27-39.	2.9	67
11	Self-similar random fields and rainfall simulation. Journal of Geophysical Research, 1997, 102, 13509-13515.	3.3	61
12	A space and time model for design storm rainfall. Journal of Geophysical Research, 1999, 104, 31623-31630.	3.3	58
13	A Stochastic Model of Radar Measurement Errors in Rainfall Accumulations at Catchment Scale. Journal of Hydrometeorology, 2003, 4, 841-855.	1.9	40
14	Improving radar rainfall estimation by merging point rainfall measurements within a model combination framework. Advances in Water Resources, 2016, 97, 205-218.	3.8	36
15	Multiaffine random field model of rainfall. Water Resources Research, 1999, 35, 509-514.	4.2	35
16	Retrieval of analogue radar images for ensemble nowcasting of orographic rainfall. Meteorological Applications, 2015, 22, 141-155.	2.1	33
17	Application of Scaling in Radar Reflectivity for Correcting Range-Dependent Bias in Climatological Radar Rainfall Estimates. Journal of Atmospheric and Oceanic Technology, 2004, 21, 1545-1556.	1.3	30
18	Characterisation and Simulation of the Multiscaling Properties of the Energy-Containing Scales of Horizontal Surface-Layer Winds. Boundary-Layer Meteorology, 1999, 90, 21-46.	2.3	29

#	ARTICLE	IF	CITATIONS
19	An analysis of the impact of spatial variability in rainfall on runoff and sediment predictions from a distributed model. <i>Hydrological Processes</i> , 2012, 26, 3263-3280.	2.6	29
20	An operational approach for classifying storms in real-time radar rainfall estimation. <i>Journal of Hydrology</i> , 2008, 363, 1-17.	5.4	28
21	Effect of disdrometer type on rain drop size distribution characterisation: a new dataset for south-eastern Australia. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4737-4761.	4.9	28
22	Correcting bias in radar Z $\hat{=}$ R relationships due to uncertainty in point rain gauge networks. <i>Journal of Hydrology</i> , 2014, 519, 1668-1676.	5.4	27
23	Merging radar and in situ rainfall measurements: An assessment of different combination algorithms. <i>Water Resources Research</i> , 2016, 52, 8384-8398.	4.2	27
24	Quantifying and predicting the accuracy of radar-based quantitative precipitation forecasts. <i>Advances in Water Resources</i> , 2009, 32, 1043-1049.	3.8	21
25	On the spatial distribution of rainfall nowcasting errors due to orographic forcing. <i>Meteorological Applications</i> , 2015, 22, 60-74.	2.1	20
26	Deep Learning for an Improved Prediction of Rainfall Retrievals From Commercial Microwave Links. <i>Water Resources Research</i> , 2020, 56, e2019WR026255.	4.2	20
27	Use of a stochastic precipitation nowcast scheme for fluvial flood forecasting and warning. <i>Atmospheric Science Letters</i> , 2005, 6, 78-83.	1.9	19
28	Role of spatial anisotropy in design storm generation: Experiment and interpretation. <i>Water Resources Research</i> , 2016, 52, 69-89.	4.2	18
29	An evaluation of numerical weather prediction based rainfall forecasts. <i>Hydrological Sciences Journal</i> , 2016, 61, 2704-2717.	2.6	17
30	Application of a Bayesian Classifier of Anomalous Propagation to Single-Polarization Radar Reflectivity Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 1985-2005.	1.3	15
31	A Multiplicative Cascade Model for High-Resolution Space-Time Downscaling of Rainfall. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 2050-2067.	3.3	14
32	A simple and effective method for quantifying spatial anisotropy of time series of precipitation fields. <i>Water Resources Research</i> , 2014, 50, 5906-5925.	4.2	12
33	Comparison of rainfall nowcasting derived from the STEPS model and JMA precipitation nowcasts. <i>Hydrological Research Letters</i> , 2015, 9, 54-60.	0.5	11
34	Rainfall retrieval using commercial microwave links: Effect of sampling strategy on retrieval accuracy. <i>Journal of Hydrology</i> , 2021, 603, 126909.	5.4	10
35	Assessment of Doppler Radar Radial Wind Observation Quality from Different Echo Sources for Assimilation during the Sydney 2014 Forecast Demonstration Project. <i>Journal of Atmospheric and Oceanic Technology</i> , 2018, 35, 1605-1620.	1.3	4
36	Stochastic Space-Time Downscaling of Rainfall Using Event-Based Multiplicative Cascade Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3889-3902.	3.3	3

#	ARTICLE	IF	CITATIONS
37	Probabilistic Attenuation Nowcasting for the 5G Telecommunication Networks. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 973-977.	4.0	1