Aart Overeem

List of Publications by Year
in descending order

41 papers	**2,318** citations	257450 **24** h-index	302126 **39** g-index
67 all docs	**67** docs citations	**67** times ranked	**2204** citing authors

#	Article	IF	Citations
1	Crowdsourcing for climate and atmospheric sciences: current status and future potential. International Journal of Climatology, 2015, 35, 3185-3203.	3.5	261
2	Country-wide rainfall maps from cellular communication networks. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2741-2745.	7.1	226
3	Rainfall depth-duration-frequency curves and their uncertainties. Journal of Hydrology, 2008, 348, 124-134.	5.4	170
4	Crowdsourcing urban air temperatures from smartphone battery€‰temperatures. Geophysical Research Letters, 2013, 40, 4081-4085.	4.0	161
5	Measuring urban rainfall using microwave links from commercial cellular communication networks. Water Resources Research, 2011, 47, .	4.2	133
6	The influence of temperature and climate change on the timing of pollen release in the Netherlands. International Journal of Climatology, 2002, 22, 1757-1767.	3.5	130
7	Derivation of a 10-Year Radar-Based Climatology of Rainfall. Journal of Applied Meteorology and Climatology, 2009, 48, 1448-1463.	1.5	123
8	Extreme rainfall analysis and estimation of depth€duration€frequency curves using weather radar. Water Resources Research, 2009, 45, .	4.2	117
9	The potential of urban rainfall monitoring with crowdsourced automatic weather stations in Amsterdam. Hydrology and Earth System Sciences, 2017, 21, 765-777.	4.9	84
10	First-Year Evaluation of GPM Rainfall over the Netherlands: IMERG Day 1 Final Run (V03D). Journal of Hydrometeorology, 2016, 17, 2799-2814.	1.9	83
11	Retrieval algorithm for rainfall mapping from microwave links in a cellular communication network. Atmospheric Measurement Techniques, 2016, 9, 2425-2444.	3.1	76
12	Two and a half years of country-wide rainfall maps using radio links from commercial cellular telecommunication networks. Water Resources Research, 2016, 52, 8039-8065.	4.2	76
13	Opportunistic remote sensing of rainfall using microwave links from cellular communication networks. Wiley Interdisciplinary Reviews: Water, 2018, 5, e1289.	6.5	72
14	Extreme value modeling of areal rainfall from weather radar. Water Resources Research, 2010, 46, .	4.2	66
15	Quality Control for Crowdsourced Personal Weather Stations to Enable Operational Rainfall Monitoring. Geophysical Research Letters, 2019, 46, 8820-8829.	4.0	62
16	Anatomy of extraordinary rainfall and flash flood in a Dutch lowland catchment. Hydrology and Earth System Sciences, 2011, 15, 1991-2005.	4.9	41
17	Crowdsourcing Urban Air Temperatures through Smartphone Battery Temperatures in São Paulo, Brazil. Journal of Atmospheric and Oceanic Technology, 2017, 34, 1853-1866.	1.3	39
18	A measurement campaign to assess sources of error in microwave link rainfall estimation. Atmospheric Measurement Techniques, 2018, 11, 4645-4669.	3.1	37

#	Article	IF	Citations
19	The effect of differences between rainfall measurement techniques on groundwater and discharge simulations in a lowland catchment. Hydrological Processes, 2016, 30, 3885-3900.	2.6	33
20	Spatial and Temporal Evaluation of Radar Rainfall Nowcasting Techniques on 1,533 Events. Water Resources Research, 2020, 56, e2019WR026723.	4.2	33
21	Measurement and interpolation uncertainties in rainfall maps from cellular communication networks. Hydrology and Earth System Sciences, 2015, 19, 3571-3584.	4.9	30
22	Rainfall retrieval with commercial microwave links in São Paulo, Brazil. Atmospheric Measurement Techniques, 2018, 11, 4465-4476.	3.1	30
23	Precipitation Measurement at CESAR, the Netherlands. Journal of Hydrometeorology, 2010, 11, 1322-1329.	1.9	29
24	Hydrometeorological Monitoring Using Opportunistic Sensing Networks in the Amsterdam Metropolitan Area. Bulletin of the American Meteorological Society, 2020, 101, E167-E185.	3.3	29
25	Evaluation of Rainfall Products Derived From Satellites and Microwave Links for The Netherlands. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 6849-6859.	6.3	26
26	Rainfall Estimation Accuracy of a Nationwide Instantaneously Sampling Commercial Microwave Link Network: Error Dependency on Known Characteristics. Journal of Atmospheric and Oceanic Technology, 2019, 36, 1267-1283.	1.3	23
27	Rainfall Nowcasting Using Commercial Microwave Links. Geophysical Research Letters, 2020, 47, e2020GL089365.	4.0	17
28	High‐Resolution Simulation Study Exploring the Potential of Radars, Crowdsourced Personal Weather Stations, and Commercial Microwave Links to Monitor Small‐Scale Urban Rainfall. Water Resources Research, 2018, 54, 10,293.	4.2	15
29	Tropical rainfall monitoring with commercial microwave links in Sri Lanka. Environmental Research Letters, 2021, 16, 074058.	5.2	13
30	Estimating raindrop size distributions using microwave link measurements: potential and limitations. Atmospheric Measurement Techniques, 2020, 13, 1797-1815.	3.1	12
31	Rainfall measurement using cell phone links: classification of wet and dry periods using geostationary satellites. Hydrological Sciences Journal, 2017, 62, 1343-1353.	2.6	11
32	Rainfall retrieval using commercial microwave links: Effect of sampling strategy on retrieval accuracy. Journal of Hydrology, 2021, 603, 126909.	5.4	10
33	A climatological benchmark for operational radar rainfall bias reduction. Hydrology and Earth System Sciences, 2021, 25, 4061-4080.	4.9	8
34	Rainfall Monitoring Using Microwave Links from Cellular Communication Networks: The Dutch Experience. , 2018, , .		6
35	Full-Year Evaluation of Nonmeteorological Echo Removal with Dual-Polarization Fuzzy Logic for Two C-Band Radars in a Temperate Climate. Journal of Atmospheric and Oceanic Technology, 2020, 37, 1643-1660.	1.3	6
36	From proof‐of‐concept to proof‐of‐value: Approaching third‐party data to operational workflows of national meteorological services. International Journal of Climatology, 2023, 43, 275-292.	3.5	5

#	Article	IF	Citations
37	A comprehensive five-year evaluation of IMERG Late Run precipitation estimates over the Netherlands. Journal of Hydrometeorology, 2021, , .	1.9	4
38	Rainfall retrieval algorithm for commercial microwave links: stochastic calibration. Atmospheric Measurement Techniques, 2022, 15, 485-502.	3.1	4
39	Rainfall-induced attenuation correction for two operational dual-polarization C-band radars in the Netherlands. Journal of Atmospheric and Oceanic Technology, 2021, , .	1.3	1
40	A simple model for predicting the statistics of spatiotemporal extremes of sub-daily precipitation. Weather and Climate Extremes, 2022, 36, 100424.	4.1	1
41	Cover Image, Volume 5, Issue 4. Wiley Interdisciplinary Reviews: Water, 2018, 5, e1301.	6.5	0