

# Aart Overeem

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | From proofâ€œofâ€œconcept to proofâ€œofâ€œvalue: Approaching thirdâ€œparty data to operational workflows of national meteorological services. <i>International Journal of Climatology</i> , 2023, 43, 275-292.                            | 3.5 | 5         |
| 2  | Rainfall retrieval algorithm for commercial microwave links: stochastic calibration. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 485-502.   | 3.1 | 4         |
| 3  | A simple model for predicting the statistics of spatiotemporal extremes of sub-daily precipitation. <i>Weather and Climate Extremes</i> , 2022, 36, 100424.   | 4.1 | 1         |
| 4  | Rainfall-induced attenuation correction for two operational dual-polarization C-band radars in the Netherlands. <i>Journal of Atmospheric and Oceanic Technology</i> , 2021, , .  | 1.3 | 1         |
| 5  | A comprehensive five-year evaluation of IMERG Late Run precipitation estimates over the Netherlands. <i>Journal of Hydrometeorology</i> , 2021, , .   | 1.9 | 4         |
| 6  | Tropical rainfall monitoring with commercial microwave links in Sri Lanka. <i>Environmental Research Letters</i> , 2021, 16, 074058.  | 5.2 | 13        |
| 7  | A climatological benchmark for operational radar rainfall bias reduction. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 4061-4080.   | 4.9 | 8         |
| 8  | Rainfall retrieval using commercial microwave links: Effect of sampling strategy on retrieval accuracy. <i>Journal of Hydrology</i> , 2021, 603, 126909.  | 5.4 | 10        |
| 9  | Hydrometeorological Monitoring Using Opportunistic Sensing Networks in the Amsterdam Metropolitan Area. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E167-E185.  | 3.3 | 29        |
| 10 | Rainfall Nowcasting Using Commercial Microwave Links. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089365.  | 4.0 | 17        |
| 11 | Spatial and Temporal Evaluation of Radar Rainfall Nowcasting Techniques on 1,533 Events. <i>Water Resources Research</i> , 2020, 56, e2019WR026723.   | 4.2 | 33        |
| 12 | Estimating raindrop size distributions using microwave link measurements: potential and limitations. <i>Atmospheric Measurement Techniques</i> , 2020, 13, 1797-1815.   | 3.1 | 12        |
| 13 | Full-Year Evaluation of Nonmeteorological Echo Removal with Dual-Polarization Fuzzy Logic for Two C-Band Radars in a Temperate Climate. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 1643-1660.                       | 1.3 | 6         |
| 14 | Rainfall Estimation Accuracy of a Nationwide Instantaneously Sampling Commercial Microwave Link Network: Error Dependency on Known Characteristics. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 1267-1283.           | 1.3 | 23        |
| 15 | Quality Control for Crowdsourced Personal Weather Stations to Enable Operational Rainfall Monitoring. <i>Geophysical Research Letters</i> , 2019, 46, 8820-8829.  | 4.0 | 62        |
| 16 | Cover Image, Volume 5, Issue 4. <i>Wiley Interdisciplinary Reviews: Water</i> , 2018, 5, e1301.   | 6.5 | 0         |
| 17 | Highâ€œResolution Simulation Study Exploring the Potential of Radars, Crowdsourced Personal Weather Stations, and Commercial Microwave Links to Monitor Smallâ€œScale Urban Rainfall. <i>Water Resources Research</i> , 2018, 54, 10,293. | 4.2 | 15        |
| 18 | Opportunistic remote sensing of rainfall using microwave links from cellular communication networks. <i>Wiley Interdisciplinary Reviews: Water</i> , 2018, 5, e1289.  | 6.5 | 72        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Rainfall Monitoring Using Microwave Links from Cellular Communication Networks: The Dutch Experience. , 2018, , .   |     | 6         |
| 20 | Rainfall retrieval with commercial microwave links in São Paulo, Brazil. Atmospheric Measurement Techniques, 2018, 11, 4465-4476.   | 3.1 | 30        |
| 21 | A measurement campaign to assess sources of error in microwave link rainfall estimation. Atmospheric Measurement Techniques, 2018, 11, 4645-4669.                               | 3.1 | 37        |
| 22 | 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        |
| 23 | 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        |
| 24 | 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        |
| 25 | 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        |
| 26 | Retrieval algorithm for rainfall mapping from microwave links in a cellular communication network. Atmospheric Measurement Techniques, 2016, 9, 2425-2444.                      | 3.1 | 76        |
| 27 | 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        |
| 28 | 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        |
| 29 | 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        |
| 30 | Measurement and interpolation uncertainties in rainfall maps from cellular communication networks. Hydrology and Earth System Sciences, 2015, 19, 3571-3584.                    | 4.9 | 30        |
| 31 | Crowdsourcing for climate and atmospheric sciences: current status and future potential. International Journal of Climatology, 2015, 35, 3185-3203.                             | 3.5 | 261       |
| 32 | Crowdsourcing urban air temperatures from smartphone battery temperatures. Geophysical Research Letters, 2013, 40, 4081-4085.   | 4.0 | 161       |
| 33 | 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       |
| 34 | Measuring urban rainfall using microwave links from commercial cellular communication networks. Water Resources Research, 2011, 47, .   | 4.2 | 133       |
| 35 | Anatomy of extraordinary rainfall and flash flood in a Dutch lowland catchment. Hydrology and Earth System Sciences, 2011, 15, 1991-2005.                                       | 4.9 | 41        |
| 36 | Precipitation Measurement at CESAR, the Netherlands. Journal of Hydrometeorology, 2010, 11, 1322-1329.  | 1.9 | 29        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Extreme value modeling of areal rainfall from weather radar. <i>Water Resources Research</i> , 2010, 46, .   | 4.2 | 66        |
| 38 | Derivation of a 10-Year Radar-Based Climatology of Rainfall. <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 1448-1463.                              | 1.5 | 123       |
| 39 | Extreme rainfall analysis and estimation of depthâ€durationâ€frequency curves using weather radar. <i>Water Resources Research</i> , 2009, 45, .                       | 4.2 | 117       |
| 40 | Rainfall depth-duration-frequency curves and their uncertainties. <i>Journal of Hydrology</i> , 2008, 348, 124-134.  | 5.4 | 170       |
| 41 | The influence of temperature and climate change on the timing of pollen release in the Netherlands. <i>International Journal of Climatology</i> , 2002, 22, 1757-1767. | 3.5 | 130       |