

PUBLICATION LIST

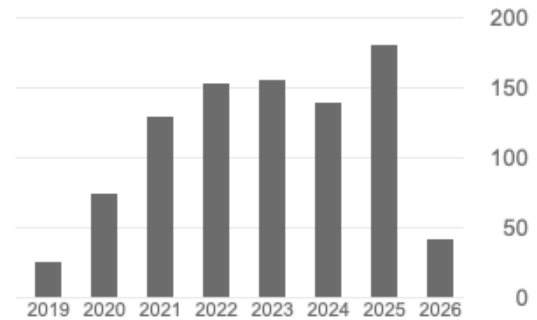
Overview (as of 02 Apr 2026)

ORCID: 0000-0002-1144-4753

Publications 15

h-index 14 (google)

citations 960 (google scholar)



Peer reviewed journal articles

1. Acquistapace, C., Schnitt, S., Krause, S., Risse, N., Lange, D. & Chatterjee, D. (2026) Characterizing trade-wind shallow convection regimes in the open sea with a synergy of ship-based vertical profiling observations. *Quarterly Journal of the Royal Meteorological Society*, 152(774), e70038. Available from: <https://doi.org/10.1002/qj.70038>
2. Cimini, D., Gandoin, R., Fiedler, S., Acquistapace, C., Balotti, A., Gentile, S., Geraldini, E., Knist, C., Martinet, P., Nilo, S. T., Pace, G., Pospichal, B., and Romano, F.: Atmospheric stability from numerical weather prediction models and microwave radiometer observations for onshore and offshore wind energy applications, *Atmos. Meas. Tech.*, 18, 2041–2067, <https://doi.org/10.5194/amt-18-2041-2025>, 2025.
3. Chatterjee, D., S. Schnitt, P. Bigalke, C. Acquistapace, and S. Crewell., 2024: Capturing the diversity of mesoscale trade wind cumuli using complementary approaches from self-supervised deep learning. *Geophysical Research Letters*, 51, e2024GL108889. <https://doi.org/10.1029/2024GL108889>
4. Schnitt, S., Foth, A., Kalesse-Los, H., Mech, M., Acquistapace, C., Jansen, F., Löhnert, U., Pospichal, B., Röttenbacher, J., Crewell, S., and Stevens, B., 2024: Ground- and ship-based microwave radiometer measurements during EUREC⁴A, *Earth Syst. Sci. Data*, 16, 681–700, <https://doi.org/10.5194/essd-16-681-2024>
5. Chatterjee, D., C. Acquistapace, H. Deneke, and S. Crewell, 2023: Understanding Cloud Systems' Structure and Organization Using a Machine's Self-Learning Approach. *Artif. Intell. Earth Syst.*, 2, e220096, <https://doi.org/10.1175/AIES-D-22-0096.1>.
6. Bailey, A., Aemisegger, F., Villiger, L., Los, S. A., Reverdin, G., Quiñones Meléndez, E., Acquistapace, C., Baranowski, D. B., Böck, T., Bony, S., Bordsdorff, T., Coffman, D., de Szoeko, S. P., Diekmann, C. J., Dütsch, M., Ertl, B., Galewsky, J., Henze, D., Makuch, P., Noone, D., Quinn, P. K., Rösch, M., Schneider, A., Schneider, M., Speich, S., Stevens, B., and Thompson, E. J., 2023: Isotopic measurements in water vapor, precipitation, and seawater during EUREC⁴A, *Earth Syst. Sci. Data*, 15, 465–495, <https://doi.org/10.5194/essd-15-465-2023>.
7. Acquistapace, C., A. N. Meroni, G. Labbri, D. Lange, F. Späth, S. Abbas, and H. Bellenger. 2022. Fast atmospheric response to a cold oceanic mesoscale patch in the north-western tropical Atlantic. *Journal of Geophysical Research: Atmospheres*, 127, e2022JD036799., <https://doi.org/10.1029/2022JD036799>
8. Acquistapace, C., R. Coulter, S. Crewell, A. Garcia-Benadi, R. Gierens, G. Labbri, A. Myagkov, N. Risse, and J. H. Schween, 2022. EUREC⁴A's Maria S. Merian ship-based cloud and micro rain radar observations of clouds and precipitation. *Earth System Science Data*, 15(1), 465–495., <https://essd.copernicus.org/articles/14/33/2022/>
9. Stevens, B., S. Bony, D. Farrell, F. Ament, A. Blyth, C. Fairall, J. Karstensen, P.K. Quinn, S. Speich, C. Acquistapace, F. Aemisegger, A.L. Albright, H. Bellenger, E. Bodenschatz, K-A. Caesar, R. Chewitt- Lucas, G. de Boer, J. Delanoë, L. Denby, F. Ewald, B. Fildier, M. Forde, G. George, G., S. Gross, M. Hagen, et al., 2021. EUREC⁴A. *Earth Syst. Sci. Data*, 13, 4067–4119, <https://doi.org/10.5194/essd-13-4067-2021>.

10. Stephan, C. C., S. Schnitt, H. Schulz, H. Bellenger, S.P. de Szoeko, C. Acquistapace, K. Baier, T. Dauhut, R. Laxenaire, Y. Morfa-Avalos, R. Person, E. Quiñones Meléndez, G. Bagheri, T. Böck, A. Daley, J. Güttler, K.C. Helfer, S.A. Los, A. Neuberger, J. Röttenbacher, A. Raeke, M. Ringel, M. Ritschel, P. Sadoulet, I. Schirmacher, M.K. Stolla, E. Wright, B. Charpentier, A. Doerenbecher, R. Wilson, F. Jansen, S. Kinne, G. Reverdin, S. Speich, S. Bony, and B. Stevens., 2021. Ship- and island-based atmospheric soundings from the 2020 EUREC4A field campaign. *Earth Syst. Sci. Data*, 13, 491–514, <https://doi.org/10.5194/essd-13-491-2021>.
11. Costa-Surós, M., O. Sourdeval, C. Acquistapace, H. Baars, C. Carbajal Henken, C. Genz, J. Hesemann, C. Jimenez, M. König, J. Kretzschmar, N. Madenach, C. I. Meyer, R. Schrödner, P. Seifert, F. Senf, M. Brueck, G. Cioni, J.F. Engels, K. Fieg, K. Gorges, R. Heinze, P.K. Siligam, U. Burkhardt, S. Crewell, S., Hoose, C., Seifert, A., I. Tegen, and J. Quaas., 2020. Detection and attribution of aerosol–cloud interactions in large-domain large eddy simulations with the ICOSahedral Non-hydrostatic model. *Atmos. Chem. Phys.*, 20, 5657–5678, <https://doi.org/10.5194/acp-20-5657-2020>.
12. Stevens B., C. Acquistapace, A. Hansen, R. Heinze, C. Klinger, D. Klocke, H. Rybka, W. Schubotz, J. Windmiller, P. Adamidis, I. Arka, V. Barkalas et al., 2020. The Added Value of Large-eddy and Storm Resolving Models for Simulating Clouds and Precipitation. *Journal of the Meteorological Society of Japan*. Ser. II. 98(2), 395-435, <https://doi.org/10.2151/jmsj.2020-021>
13. Acquistapace, C., U. Löhnert, M. Maahn, and P. Kollias, 2019. A New Criterion to Improve Operational Drizzle Detection with Ground-Based Remote Sensing. *Journal of Atmospheric and Oceanic Technology*, 36(5), 781-801, <https://journals.ametsoc.org/view/journals/atot/36/5/jtech-d-18-0158.1.xml>
14. Acquistapace, C., S. Kneifel, U. Löhnert, P. Kollias, M. Maahn, and M. Bauer-Pfundstein, 2017. Optimizing observations of drizzle onset with millimeter-wavelength radars. *Atmos. Meas. Tech.*, 10, 1783–1802, <https://doi.org/10.5194/amt-10-1783-2017>.
15. Löhnert, U., J. H. Schween, C. Acquistapace, K. Ebell, M. Maahn, M. Barrera-Verdejo, A. Hirsikko, B. Bohn, A. Knaps, E. O'Connor, C. Simmer, A. Wahner, A., and S. Crewell. 2015. JOYCE: Jülich Observatory for Cloud Evolution. *Bulletin of the American Meteorological Society*, 96(7), 1157-1174. <https://journals.ametsoc.org/view/journals/bams/96/7/bams-d-14-00105.1.xml>