

Publications by the LOFAR Lightning-Imaging group

- 2017
 - Lightning Imaging with LOFAR
EPJ Web of Conferences 135, 03003 (2017) .pdf
- 2018
 - LOFAR Lightning Imaging: Mapping Lightning With Nanosecond Precision
JGR-Atmosphere; 123 (2018) 2861-2876 .pdf
- 2019
 - Needle-like structures discovered on positively charged lightning branches
Nature volume 568, pages 360-363 (2019) .pdf
- 2020
 - Radio Emission Reveals Inner Meter-Scale Structure of Negative Lightning Leader Steps
Phys. Rev. Lett. 124, 105101 (2020) .pdf
- 2021
 - The relationship of lightning radio pulse amplitudes and source altitudes as observed by LOFAR
JGR: Earth and Space Science .pdf
 - A distinct negative leader propagation mode
Scientific Reports 11, 16256 (2021) .pdf
 - Distinguishing features of high altitude negative leaders as observed with LOFAR
Atmospheric Research 260, (2021) 105688 .pdf
 - The Initial Stage of Cloud Lightning Imaged in High-Resolution
JGR-Atmosphere; 126 (2021) e2020JD033126 .pdf
 - Time resolved 3D interferometric imaging of a section of a negative leader with LOFAR
Phys. Rev. D 104, 063022 (2021) .pdf
 - Needle Propagation and Twinkling Characteristics
JGR-Atmosphere, 126 (2021) e2020JD034252 .pdf

- The Spontaneous Nature of Lightning Initiation Revealed
Geoph. Res. Lett., 48 (2021) e2021GL095511 .pdf
- Implications of Multiple Corona Bursts in Lightning Processes
for Radio Frequency Interferometer Observations
Geoph. Res. Lett., 48 (2021) e2021GL097367 .pdf
- Timing Calibration and Windowing Technique Comparison for
Lightning Mapping Arrays
Earth and Space Science, 8, e2020EA001523 (2021) .pdf
- 2022
 - Interferometric imaging of intensely radiating negative leaders
Phys. Rev. D 105, 062007 (2022) .pdf
 - LOFAR observations of lightning Initial breakdown pulses
Geoph. Res. Lett., 49, e2022GL098073 (2022) .pdf