

# Gerrit Kuhlmann

## List of Publications by Citations

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

18  
papers

210  
citations

8  
h-index

14  
g-index

49  
ext. papers

289  
ext. citations

4.3  
avg, IF

3.21  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 18 | Detectability of CO <sub>2</sub> ; emission plumes of cities and power plants with the Copernicus Anthropogenic CO <sub>2</sub> Monitoring (CO <sub>2</sub> M) mission. <i>Atmospheric Measurement Techniques</i> , <b>2019</b> , 12, 6695-6719                          | 4    | 33        |
| 17 | Development of a custom OMI NO <sub>2</sub> ; data product for evaluating biases in a regional chemistry transport model. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 5627-5644   | 6.8  | 29        |
| 16 | NO <sub>2</sub> ; measurements in Hong Kong using LED based long path differential optical absorption spectroscopy. <i>Atmospheric Measurement Techniques</i> , <b>2012</b> , 5, 901-912   | 4    | 25        |
| 15 | A novel gridding algorithm to create regional trace gas maps from satellite observations. <i>Atmospheric Measurement Techniques</i> , <b>2014</b> , 7, 451-467   | 4    | 22        |
| 14 | An integrated approach to identify the biomass burning sources contributing to black carbon episodes in Hong Kong. <i>Atmospheric Environment</i> , <b>2013</b> , 80, 478-487  | 5.3  | 19        |
| 13 | An Algorithm for In-Flight Spectral Calibration of Imaging Spectrometers. <i>Remote Sensing</i> , <b>2016</b> , 8, 10175   |      | 18        |
| 12 | Accounting for the vertical distribution of emissions in atmospheric CO <sub>2</sub> ; simulations. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 4541-4559   | 6.8  | 16        |
| 11 | Urban greenhouse gas emissions from the Berlin area: A case study using airborne CO <sub>2</sub> and CH <sub>4</sub> in situ observations in summer 2018. <i>Elementa</i> , <b>2020</b> , 8,   | 3.6  | 10        |
| 10 | Quantifying CO <sub>2</sub> ; emissions of a city with the Copernicus Anthropogenic CO <sub>2</sub> Monitoring satellite mission. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 6733-6754  | 4    | 7         |
| 9  | An online emission module for atmospheric chemistry transport models: implementation in COSMO-GHG v5.6a and COSMO-ART v5.1-3.1. <i>Geoscientific Model Development</i> , <b>2020</b> , 13, 2379-2392   | 6.3  | 6         |
| 8  | Importance of satellite observations for high-resolution mapping of near-surface NO <sub>2</sub> by machine learning. <i>Remote Sensing of Environment</i> , <b>2021</b> , 264, 112573   | 13.2 | 6         |
| 7  | Quantifying CO <sub>2</sub> Emissions of Power Plants With CO <sub>2</sub> and NO <sub>2</sub> Imaging Satellites. <i>Frontiers in Remote Sensing</i> , <b>2021</b> , 2,   | 1    | 5         |
| 6  | Comparing different light-emitting diodes as light sources for long path differential optical absorption spectroscopy NO <sub>2</sub> and SO <sub>2</sub> measurements. <i>Chinese Physics B</i> , <b>2012</b> , 21, 119301  | 1.2  | 4         |
| 5  | Three-dimensional radiative transfer effects on airborne and ground-based trace gas remote sensing. <i>Atmospheric Measurement Techniques</i> , <b>2020</b> , 13, 4277-4293  | 4    | 4         |
| 4  | Spatial and temporal representativeness of point measurements for nitrogen dioxide pollution levels in cities. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 13241-13251  | 6.8  | 2         |
| 3  | Impact of 3D radiative transfer on airborne NO <sub>2</sub> ; imaging remote sensing over cities with buildings. <i>Atmospheric Measurement Techniques</i> , <b>2021</b> , 14, 6469-6482   | 4    | 2         |
| 2  | The greenhouse gas project of ESA's climate change initiative (GHG-CCI): overview, achievements and future plans. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , <b>2015</b> , XL-7/W3, 165-172 | 2.5  | 1         |

- 1 Mapping the spatial distribution of NO<sub>2</sub> with in situ and remote sensing instruments during the Munich NO<sub>2</sub> imaging campaign. *Atmospheric Measurement Techniques*, **2022**, 15, 1609-1629 4 ○