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## Field observations of aerosol physical and chemical properties in the Netherlands

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# **Field Observations of Aerosol Physical and Chemical Properties in the Netherlands**

**Xinya Liu**



**university of  
 groningen**

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 and engineering**

This research was conducted at the Centre for Isotope Research (CIO), Energy and Sustainability Research Institute (ESRIG), Faculty of Science and Engineering (FSE), University of Groningen, the Netherlands.

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university of  
 groningen

# Field observations of aerosol physical and chemical properties in the Netherlands

## PhD thesis

to obtain the degree of PhD at the  
 University of Groningen  
 on the authority of the  
 Rector Magnificus Prof. J.M.A. Scherpen  
 and in accordance with  
 the decision by the College of Deans.

This thesis will be defended in public on

Tuesday 3 December 2024 at 12.45 hours

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