

Hossein Maazallahi, PhD

[LinkedIn](#) | [Google Scholar](#)

Education

Ph.D. (2017 – 2022)

Atmospheric Physics

MEMO² Consortium ([link](#)), Utrecht University, Utrecht, the Netherlands

Thesis:

Detection, attribution and quantification of methane emissions using mobile measurement techniques in European cities ([link](#))

Supervisor:

Prof. Thomas Röckmann ([link](#))

Dr. Hugo Denier van der Gon ([link](#))

M.Sc. (2013 – 2015)

Geo Information and Earth Observation for Environmental Modelling and Management ([link](#))

ITC / University of Twente, Enschede, the Netherlands and Lund University, Lund, Sweden

Thesis:

Switching to the “Golden Age of Natural Gas” with a Focus on Shale Gas Exploitation: A Possible Bridge to Mitigate Climate Change? ([link](#))

Supervisor:

Prof. Petter Pilesjö ([link](#))

Dr. Robert Hack ([link](#))

B.Sc. (2008 – 2013)

Petroleum Engineering

Sharif University of Technology (SUT), Tehran, Iran

Thesis:

Kinetics of Gas Hydrate Formation and Extraction

Supervisor:

Prof. Vahid Taghikhani ([link](#))

Peer Review Experience

Springer Nature

- Communications Earth & Environment
- Climatic Change
- Scientific Data
- Scientific Reports
- Theoretical and Applied Climatology
- Nature Cities
- Discover Applied Sciences
- Mediterranean Geoscience Reviews
- Discover Environment

European Geosciences Union

- Atmospheric Chemistry and Physics
- Atmospheric Measurement Techniques

American Chemical Society

- Environmental Science and Technology
- Environmental Science and Technology Air

University of California Press

- Elementa

IOP Science

- Environmental Research Communication

Postdocs

Postdoc (2024 – 2026): College of Interdisciplinary Science and Technologies, University of Tehran, Tehran, Iran

Postdoc (2022 – 2023): Institute for Marine and Atmospheric Research Utrecht (IMAU), Faculty of Science, Utrecht University, Utrecht, the Netherlands

Main technical skills

Measurements, observations and experiments | Engineering | Environmental management | Measurement execution and supervision | Management | Atmospheric measurement, monitoring, verification and reporting | Data analysis | International collaboration | Public outreach

Main Teaching Experience

General Physics

Farhangian University, Kerman, Iran – 2026

Islamic Azad University of Kerman, Kerman, Iran – 2025

Natural Sciences

Farhangian University, Kerman, Iran – 2026

Executing and/or supervising measurements in real-field conditions:

- **R**Omanian **M**ethane **E**missions from **O**il & gas (ROMEEO) campaign (phase I in 2019 and phase II in 2021) ([link](#))

Goal: Detection, attribution and quantification of methane emissions from oil and gas facilities in Romania

- Carbon Dioxide and Methane (CoMet) campaign (2018) ([link](#))

Goal: Detection, attribution and quantification of methane emissions from coal mining in Upper-Silesia, Poland

- The Ruisdael Rotterdam campaign, 2022

Goal: Data collection related to air pollution, greenhouse gas emissions and meteorological information across the city and port of Rotterdam ([link](#))

- City Campaigns:

- Hamburg (2018) ([link](#))

Goal: Detection, attribution and quantification of methane emissions in urban area, Hamburg, Germany

- Bucharest (2019) ([link](#))

Goal: Detection, attribution and quantification of methane emissions in urban area, Bucharest, Romania

- Hamburg (2020) ([link](#));

Goal: Intercomparison of three gas leak quantification methods from urban distribution network, namely mobile, suction and tracer methods

- Hamburg (2021) ([link](#));

Goal: quantification of methane emissions from harbour, Hamburg, Germany

- Offshore Campaigns; measurements from offshore oil and gas productions and natural seeps:

Goal: quantification of methane emissions from offshore oil and gas production

- Royal Netherlands Institute for Sea Research (NIOZ) / Pelagia 2018 ([link](#))

- Netherlands Oil and Gas Exploration and Production Association (NOGEPA) 2018 ([link](#))

Relevant work experiences

Founder of a science-based startup

Maaz Maps, Utrecht, the Netherlands, 2022 - KVK-nummer: 87200112

Reconciling top-down methane emission quantification methods, The European Gas Research Group ([link](#)) (2022 – 2024)

Detecting Fugitive Methane Emissions from Iran's Gas Systems Using Remote Sensing Imagery, Research and Technology department, National Iranian Gas Company, Iran's National Elites Foundation (2016 – 2017)

Journal Publications

Röckmann, T., Menoud, M., van Es, J., van der Veen, C., **Maazallahi, H.**, Jagoda, P., Necki, J. M., Bartyzel, J., Korben, P., Defratyka, S., Schmidt, M., Corbu, M., Iancu, S., Calcan, A., Ardelean, M., Ghemulet, S., Pop, C., Radovici, A., Mereuta, A., Stefanie, H., and Baci, C.: Measurement report: Isotopic composition of CH₄ emitted from gas exploration sites in the Transylvanian Basin, Romania, *Atmos. Chem. Phys.*, 26, 723–731, <https://doi.org/10.5194/acp-26-723-2026>, 2026.

Maazallahi, H., Pourfayaz, F.: Establishing Regional Methane Emission Monitoring Centers: A Key Strategy for Energy Security and Climate Diplomacy, *Middle East Studies*, 32(3), e239670, 2025.

Maazallahi, H., Stavropoulou, F., Sutanto, S. J., Steiner, M., Brunner, D., Mertens, M., Jöckel, P., Visschedijk, A., Denier van der Gon, H., Dellaert, S., Velandia Salinas, N., Schwietzke, S., Zavala-Araiza, D., Ghemulet, S., Pana, A., Ardelean, M., Corbu, M., Calcan, A., Conley, S. A., Smith, M. L., and Röckmann, T.: Airborne in situ quantification of methane emissions from oil and gas production in Romania, *Atmos. Chem. Phys.*, 25, 1497–1511, <https://doi.org/10.5194/acp-25-1497-2025>, 2025.

Tettenborn, J., Zavala-Araiza, D., Stroeken, D., **Maazallahi, H.**, van der Veen, C., Hensen, A., Velzeboer, I., van den Bulk, P., Vogel, F., Gillespie, L., Ars, S., France, J., Lowry, D., Fisher, R., and Röckmann, T.: Improving Consistency in Methane Emission Quantification from the Natural Gas Distribution System across Measurement Devices, *EGUsphere* [preprint], <https://doi.org/10.5194/egusphere-2024-3620>, 2025.

de Groot, T. R., Menoud, M., van Bleijswijk, J., van Leeuwen, S. M., van der Molen, J., Hernando-Morales, V., Czerski, H., **Maazallahi, H.**, Walter, S., Rush, D., Röckmann, T., Niemann, H.: Tidal and seasonal influence on cold seep activity and methanotroph efficiency in the North Sea, *Nature communications earth & environment*, <https://doi.org/10.1038/s43247-024-01483-8>, 2024.

Vogel, F., Ars, S., Wunch, D., Lavoie, J., Gillespie, L., **Maazallahi, H.**, Röckmann, T., Necki, J., Bartyzel, J., Jagoda, P., Lowry, D., France, J., Fernandez, J., Bakaloglu, S., Fisher, R., Lanoiselle, M., Chen, H., Oudshoorn, M., Yver-Kwok, C., Defratyka, S., Morgui, J. A., Estruch, C., Curcoll, R., Grossi, C., Chen, J., Dietrich, F., Forstmaier, A., Denier van der Gon, H. A. C., Dellaert, S. N. C., Salo, J., Corbu, M., Iancu, S. S., Tudor, A. S., Scarlat, A. I., and

Calcan, A.: Ground-Based Mobile Measurements to Track Urban Methane Emissions from Natural Gas in 12 Cities across Eight Countries, <https://doi.org/10.1021/acs.est.3c03160>, 2024.

Forstmaier, A., Chen, J., Dietrich, F., Bettinelli, J., **Maazallahi, H.**, Schneider, C., Winkler, D., Zhao, X., Jones, T., van der Veen, C., Wildmann, N., Makowski, M., Uzun, A., Klappenbach, F., Denier van der Gon, H., Schwietzke, S., and Röckmann, T.: Quantification of methane emissions in Hamburg using a network of FTIR spectrometers and an inverse modeling approach, *Atmos. Chem. Phys.*, 23, 6897–6922, <https://doi.org/10.5194/acp-23-6897-2023>, 2023.

Maazallahi, H., Delre, A., Scheutz, C., Fredenslund, A. M., Schwietzke, S., Denier van der Gon, H., and Röckmann, T.: Intercomparison of detection and quantification methods for methane emissions from the natural gas distribution network in Hamburg, Germany, *Atmos. Meas. Tech.*, 16, 5051–5073, <https://doi.org/10.5194/amt-16-5051-2023>, 2023.

Fiehn, A., Eckl, M., Kostinek, J., Gałkowski, M., Gerbig, C., Rothe, M., Röckmann, T., Menoud, M., **Maazallahi, H.**, Schmidt, M., Korbeń, P., Necki, J., Stanisavljević, M., Swolkień, J., Fix, A., and Roiger, A.: Source apportionment of methane emissions from the Upper Silesian Coal Basin using isotopic signatures, *Atmos. Chem. Phys.*, 23, 15749–15765, <https://doi.org/10.5194/acp-23-15749-2023>, 2023.

Stavropoulou, F., Vinković, K., Kers, B., de Vries, M., van Heuven, S., Korbeń, P., Schmidt, M., Wietzel, J., Jagoda, P., Necki, J. M., Bartyzel, J., **Maazallahi, H.**, Menoud, M., van der Veen, C., Walter, S., Tuzson, B., Ravelid, J., Morales, R. P., Emmenegger, L., Brunner, D., Steiner, M., Hensen, A., Velzeboer, I., van den Bulk, P., Denier van der Gon, H., Delre, A., Edjabou, M. E., Scheutz, C., Corbu, M., Iancu, S., Moaca, D., Scarlat, A., Tudor, A., Vizireanu, I., Calcan, A., Ardelean, M., Ghemulet, S., Pana, A., Constantinescu, A., Cusa, L., Nica, A., Baci, C., Pop, C., Radovici, A., Mereuta, A., Stefanie, H., Dandocsi, A., Hermans, B., Schwietzke, S., Zavala-Araiza, D., Chen, H., and Röckmann, T.: High potential for CH₄ emission mitigation from oil infrastructure in one of EU's major production regions, *Atmos. Chem. Phys.*, 23, 10399–10412, <https://doi.org/10.5194/acp-23-10399-2023>, 2023.

Fernandez, J.M., **Maazallahi, H.**, France, J.L., Menoud, M., Corbu, M., Ardelean, M., Calcan, A., Townsend-Small, A., van der Veen, C., Fisher, R.E., Lowry, D., Nisbet, E.G., Röckmann, T., Street-level methane emissions of Bucharest, Romania and the dominance of urban wastewater., *Atmospheric Environment*: X, doi: <https://doi.org/10.1016/j.aeaoa.2022.100153>, 2022.

Menoud, M., Van Der Veen, C., Lowry, D., Fernandez, J. M., Bakkaloglu, S., France, J. L., Fisher, R. E., **Maazallahi, H.**, Stanisavljević, M., Necki, J., Vinkovic, K., Łakomiec, P., Rinne, J., Korbeń, P., Schmidt, M., Defratyka, S., Yver-Kwok, C., Andersen, T., Chen, H., & Röckmann, T.: New contributions of measurements in Europe to the global inventory of the stable isotopic composition of methane. *Earth System Science Data*, 14(9), 4365-4386. <https://doi.org/10.5194/essd-14-4365-2022>, 2022.

Korbeń, P., Jagoda, P., **Maazallahi, H.**, Kammerer, J., Necki, J. M., Wietzel, J., Bartyzel, J., Radovici, A., Zavala-Araiza, D., Röckmann, T., Schmidt, M., Quantification of methane emission rate from oil and gas wells in Romania using ground-based measurement techniques, <https://doi.org/10.1525/elementa.2022.00070>, 2022.

Menoud, M., Van der Veen, C., **Maazallahi, H.**, Hensen, A., Velzeboer, I., Van den Bulk, P., Delre, A., Korbeń, P., Schwietzke, S., Ardelean, M., Calcan, A., Etiope, G., Baci, C., Scheutz, C., Schmidt, M., Röckmann, T.: CH₄ isotopic signatures of emissions from oil and gas extraction sites in Romania, *Elementa: Science of the Anthropocene*, <https://doi.org/10.1525/elementa.2021.00092>, 2022.

Maazallahi, H., Fernandez, J. M., Menoud, M., Zavala-Araiza, D., Weller, Z. D., Schwietzke, S., von Fischer, J. C., Denier van der Gon, H., and Röckmann, T.: Methane mapping, emission quantification, and attribution in two European cities: Utrecht (NL) and Hamburg (DE), *Atmos. Chem. Phys.*, 20, 14717–14740, <https://doi.org/10.5194/acp-20-14717-2020>, 2020.

Fiehn, A., Kostinek, J., Eckl, M., Klausner, T., Gałkowski, M., Chen, J., Gerbig, C., Röckmann, T., **Maazallahi, H.**, Schmidt, M., Korbeń, P., Neçki, J., Jagoda, P., Wildmann, N., Mallaun, C., Bun, R., Nickl, A.-L., Jöckel, P., Fix, A., and Roiger, A.: Estimating CH₄, CO₂ and CO emissions from coal mining and industrial activities in the Upper Silesian Coal Basin using an aircraft-based mass balance approach, *Atmos. Chem. Phys.*, 20, 12675–12695, <https://doi.org/10.5194/acp-20-12675-2020>, 2020.

Chen, J., Dietrich, F., **Maazallahi, H.**, Forstmaier, A., Winkler, D., Hofmann, M. E. G., Denier van der Gon, H., and Röckmann, T.: Methane emissions from the Munich Oktoberfest, *Atmos. Chem. Phys.*, 20, 3683–3696, <https://doi.org/10.5194/acp-20-3683-2020>, 2020.

Book chapter

Maazallahi H., Chen J., and Fernandez J. M.: Methane Emissions from Natural Gas Systems: A Synthesized Review and Insights into Mitigation Gaps and Pathways. *Natural Gas in the 21st Century*. IntechOpen. Available at: <http://dx.doi.org/10.5772/intechopen.1008894>, 2025.

Selected Conference Papers

Maazallahi, H., Pourfayaz, F., Irakulis-Loitxate, I., and Avishan, M.: Satellite-based Detection and Quantification of Methane Emissions from Energy and Waste Sectors in Iran, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-18300, <https://doi.org/10.5194/egusphere-egu25-18300>, 2025.

Bescos Roy, V., **Maazallahi, H.**, Ziegler, R., and Zarea, M.: Source and Site Level Reconciliation of Methane Emissions at the Midstream Sector, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-18230, <https://doi.org/10.5194/egusphere-egu25-18230>, 2025.

Maazallahi, H., Stavropoulou, F., Sutanto, S. J., Steiner, M., Brunner, D., Mertens, M., Jöckel, P., Visschedijk, A., Denier van der Gon, H., Dellaert, S., Velandia Salinas, N., Schwietzke, S., Zavala-Araiza, D., Ghemulet, S., Pana, A., Ardelean, M., Corbu, M., Calcan, A., Conley, S. A., Smith, M. L., and Röckmann, T.: Airborne Measurements and Modelling of Methane Emissions from Oil and Gas Industry During the ROMEO Campaign 2019, EGU General Assembly 2025, Vienna, Austria, 27 Apr–2 May 2025, EGU25-4728, <https://doi.org/10.5194/egusphere-egu25-4728>, 2025.

Tettenborn, J., Zavala-Araiza, D., Stroeken, D., **Maazallahi, H.**, Hensen, A., Velzeboer, I., van den Bulk, P., Vogel, F., Gillespie, L., Ars, S., France, J., and Röckmann, T.: Improving Consistency in Methane Emission Quantification from the Natural Gas Distribution System across Measurement Devices, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-18491, <https://doi.org/10.5194/egusphere-egu24-18491>, 2024.

Maazallahi, H.: Maaz Maps: a science-based startup to accelerate and support the global methane pledge, EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-16176, <https://doi.org/10.5194/egusphere-egu23-16176>, 2023.

Chen, J., Dietrich, F., Forstmaier, A., Bettinelli, J., **Maazallahi, H.**, Schneider, C., Röckmann, T., Winkler, D., Zhao, X., Makowski, M., Klappenbach, F., Van der Veen, C., Wildmann, N., Jones, T., Ament, F., Lange, I., Denier van der Gon, H., and Schwietzke, S.: Multi-scale measurements combined with inverse modeling for assessing methane emissions of Hamburg, EGU General Assembly 2022, Multi-scale measurements combined with inverse modeling for assessing methane emissions of Hamburg, EGU General Assembly 2022, Online, 23–27 May 2022, <https://meetingorganizer.copernicus.org/EGU22/EGU22-11548.html>, 2022

Fiehn, A., Kostinek, J., Eckl, M., Galkowski, M., Gerbig, C., Röckmann, T., Menoud, M., **Maazallahi, H.**, Schmidt, M., Korben, P., Necki, J., Stanisavljevic, M., Swolkien, J., Nickl, A.-L., Winterstein, F., Mertens, M., Jöckel, P., Fix, A., and Roiger, A.: Isotopic characterization of coal mine methane in the Upper Silesian Coal Basin, Poland, EGU General Assembly 2021, Online, 19–30 April 2021, EGU21-6056, <https://doi.org/10.5194/egusphere-egu21-6056>, 2021

Maazallahi, H., Delre, A., Buth, L., Fredenslund, A. M., Nagler, I., Scheutz, C., Schwietzke, S., Denier van der Gon, H., and Röckmann, T.: Detection and quantification method intercomparison of methane emission from natural gas distribution network leaks in Hamburg, Germany, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-16140, <https://doi.org/10.5194/egusphere-egu21-16140>, 2021.

Fernandez, J., France, J. L., **Maazallahi, H.**, Bakkaloglu, S., Nisbet-Jones, P., Lowry, D., Fisher, R., and G Nisbet, E. G.: Urban Methane Emissions of Greater London, U.K., AGU Fall Meeting, Online, 13-17 December 2021, <https://agu.confex.com/agu/fm21/meetingapp.cgi/Paper/967493>, 2021

Brunner, D., Steiner, M., Jähn, M., Mertens, M., Jöckel, P., Ardelean, M., Calcan, A., Schwietzke, S., Lauvaux, T., **Maazallahi, H.**, Röckmann, T.: Atmospheric transport model analysis of methane emissions from oil- and gas-production in Romania observed during the ROMEO campaign in 2019, ICOS Science Conference, Online, 15-17 September 2020, <https://www.icos-cp.eu/sc2020/abstracts#170>, 2020

Maazallahi, H., Denier van der Gon, H., Visschedijk, A., Zavala-Araiza, D., Schwietzke, S., Brunner, D., Röckmann, T.: CH₄ emissions from oil and gas productions in Romania; an analysis of emission inventory reports and measurement-based data from ROMEO campaign, ICOS Science Conference, Online, 15-17 September 2020, <https://www.icos-cp.eu/sc2020/abstracts#191>, 2020

Korben, P., Jagoda, P., **Maazallahi, H.**, Necki, J., Bartyzel, J., Radovici, A., Schmidt, M., Röckmann, T.: Quantification of methane emission from oil and gas wells using Other Test Method 33a during ROMEO campaign, ICOS Science Conference, Online, 15-17 September 2020, <https://www.icos-cp.eu/sc2020/abstracts#196>, 2020

Corbu, M.-P., Calcan, A., Vizireanu, I., Moaca, D. E., Chiritescu, R.-V., Roeckmann, T., **Maazallahi, H.**, Fernandez, J. M., France, J., and Iorga, G.: Atmospheric satellite-based and in situ surface observations on summertime trace gases (CO, CO₂, CH₄) over the metropolitan area of Bucharest, EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-4930, <https://doi.org/10.5194/egusphere-egu2020-4930>, 2020.

De Groot, T., Menoud, M., Röckmann, T., **Maazallahi, H.**, Rush, D., Mesdag, C., Meijninger, B., and Niemann, H.: Temporal water column dynamics control microbial methane

oxidation above an active cold seep (Doggerbank, North Sea), EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-5366, <https://meetingorganizer.copernicus.org/EGU2020/EGU2020-5366.html>, 2020

Menoud, M., Van der Veen, C., **Maazallahi, H.**, Fernandez, J., Korben, P., Calcan, A., France, J., Lowry, D., Schmidt M., and Röckmann, T.: Isotopic characterisation of methane emissions from oil and gas operation in Romania, EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-13643, <https://doi.org/10.5194/egusphere-egu2020-13643>, 2020

Stanisavljevic, M., Nęcki, J., Korbeń, P., **Maazallahi, H.**, Menoud, M., Defratyka, S., Vinkovic, K., Van der Veen, C., Chmura, Ł., Zieba, D., Schmidt, M., Wołkowiec, W., Röckmann, T., Wietzel, J., and Swolkień, J.: Methane emissions from coal mines ventilation shafts in Upper Silesia, Poland, EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-15165, <https://doi.org/10.5194/egusphere-egu2020-15165>, 2020

Fiehn, A., Kostinek, J., Eckl, M., Galkowski, M., Chen, J., Gerbig, C., Röckmann, T., **Maazallahi, H.**, Schmidt, M., Korben, P., Necki, J., Wildmann, N., Mallaun, C., Klausner, T., Bun, R., Fix, A., and Roiger, A.: Emissions of CH₄, CO₂, C₂H₆, CO and isotopic signatures in the Upper Silesian Coal Basin, Poland, EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-19119, <https://doi.org/10.5194/egusphere-egu2020-19119>, 2020

Fernandez, J., France, J., Menoud, M., **Maazallahi, H.**, Corbu, M-P., Röckmann, T., Fisher, R., and Lowry, D.: Characteristics of urban street level methane emissions in Bucharest, Romania, EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-21759, <https://doi.org/10.5194/egusphere-egu2020-21759>, 2020

De Groot, T., **Maazallahi, H.**, Röckmann, T., Walter, S., Menoud, M., Meijninger, B., Mesdag, C., Rush, D., Niemann, H., Tidal dynamics control microbial methane oxidation in the water column above an active cold seep (Doggerbank, North Sea), EGU General Assembly 2019, Online, 7-12 April 2019, EGU2019-5523-1, <https://meetingorganizer.copernicus.org/EGU2019/EGU2019-5523-1.pdf>, 2019

Chen, J., Dietrich, F., **Maazallahi, H.**, Winkler, D., Forstmaier, A., Hofmann, M., Denier van der Gon, H., and Röckmann, T., Investigations of Methane Emissions from the Munich Oktoberfest 2018, EGU General Assembly 2019, Online, 7-12 April 2019, EGU2019-15485-1 <https://meetingorganizer.copernicus.org/EGU2019/EGU2019-15485-1.pdf>, 2019

Maazallahi, H., Zavala-Araiza, D., Schwietzke, S., Menoud, M., Fernandez, J., Fisher, R., Lowry, D., Nisbet, E., Denier van der Gon, H., and Röckmann, T.: Mapping, emission quantification, and attribution of methane enhancements across two European cities; Utrecht, NL and Hamburg, DE, EGU General Assembly 2019, Online, 7-12 April 2019, EGU2019-17678-2, <https://meetingorganizer.copernicus.org/EGU2019/EGU2019-17678-2.pdf>, 2019

Maazallahi, H., Malika, M., Denier van der Gon, H., Van der Veen, C., Röckmann, T.: Methane Emission Mapping and Evaluation across Utrecht City, the Netherlands, Online, ICOS Science Conference, 11-13 September, 2018, https://www.icos-cp.eu/sites/default/files/2020-08/ICOS2018SC_Book_of_Abstracts.pdf, 2018

Bovensmann, H., Fix, A., Amediek, A., Andersen, T., Borchardt, J., Bovensmann, H., Büdenbender, Ch., Burrows, J. P., Butz, A., Chen, H., Dandoci, A., Eckl, M., Ehret, G., Ene, D., Fiehn, A., Galkowski, M., Gerbig, Ch., Hase, F., Heimann, M., Gerilowski, K., Kiemle, Ch., Kleinschek, R., Kostinek, J., Krautwurst, S., Kud, M., Kuze, A., Jöckel, P., Landgraf, J.,

Luther, A., **Maazallahi, H.**, Mallaun, Ch., Marshall, J., Menoud, M., Necki, J., Pfeilsticker, K., Quatrevalet, M., Rapp, M., Röckmann, T., Roiger, A., Ruhtz, T., Schmidt, M., Stanisavljevic, M., Swolkień, J., VanderVeen, C., Wildmann, N., Wirth, M., Zöger, M.: Combining airborne and ground based remote sensing (lidar, spectrometer) as well as in-situ techniques to determine CH₄ emissions of a European CH₄ emission hot spot area – initial results from COMET, Online, ICOS Science Conference, 11-13 September, 2018, https://www.icos-cp.eu/sites/default/files/2020-08/ICOS2018SC_Book_of_Abstracts.pdf, 2018

Maazallahi, H., Pilesjö, P., and Hack, R., Role of Golden Age of Natural Gas in Targeting the 2°C Policy, The 8th National Conference & Exhibition on Environmental Engineering, Tehran, Online, 7-8 November 2016, <https://civilica.com/doc/529509>, 2016

Maazallahi, H., Pilesjö, P., and Hack, R., Mapping and Quantifying Fugitive Methane Emission using Airborne Visible/Infrared Imaging Spectrometer (AVIRIS) Imagery, The 8th National Conference & Exhibition on Environmental Engineering, Tehran, Online, 7-8 November 2016, <https://civilica.com/doc/529276>, 2016

Public Outreach Articles and Video Interviews

Scientists discover more methane leakages in Utrecht's gas distribution network, Utrecht University, 7 December 2020, Online, Available from: <https://www.uu.nl/en/publication/scientists-discover-more-methane-leakages-in-utrechts-gas-distribution-network>

Mobile measurements help quantify and attribute methane emission sources in urban areas, Atmospheric Chemistry and Physics, 7 December 2020, Online, Available from: https://www.atmospheric-chemistry-and-physics.net/about/news_and_press/2020-12-07_mobile-measurements-help-quantify-and-attribute-methane-emission-sources-in-urban-areas.html

Scientists Discover 50 Methane Leaks in City of Hamburg's Gas Utility Network, Environmental Defense Fund, 7 December 2020, Online, Available from: <https://www.edf.org/media/scientists-discover-50-methane-leaks-city-hamburgs-gas-utility-network>

Universiteit ontdekt tientallen lekken in Utrechts aardgasnetwerk, NU, 7 December 2020, Online, Available from: <https://www.nu.nl/utrecht/6095050/universiteit-ontdekt-tientallen-lekken-in-utrechts-aardgasnetwerk.html>

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Video I) With Euronews: Scientists sniff for hidden methane leaks to combat global warming Persian ([link](#)); English ([link](#)); German ([link](#)); Spanish ([link](#)); Italian ([link](#)); Turkish ([link](#)); French ([link](#)); Arabic ([link](#)); Portugese ([link](#)); Russian ([link](#)); Greek ([link](#)); Hungarian ([link](#))

Video II) Related to the ROMEO Campaign ([link](#))