

# Marielle Saunois

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9088151/publications.pdf>

Version: 2024-02-01

20  
papers

5,051  
citations

430874

18  
h-index

752698

20  
g-index

22  
all docs

22  
docs citations

22  
times ranked

6348  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013, 6, 813-823.  | 12.9 | 1,649     |
| 2  | The Global Methane Budget 2000–2017. <i>Earth System Science Data</i> , 2020, 12, 1561-1623.   | 9.9  | 1,199     |
| 3  | The global methane budget 2000–2012. <i>Earth System Science Data</i> , 2016, 8, 697-751.  | 9.9  | 824       |
| 4  | The growing role of methane in anthropogenic climate change. <i>Environmental Research Letters</i> , 2016, 11, 120207.   | 5.2  | 274       |
| 5  | Increasing anthropogenic methane emissions arise equally from agricultural and fossil fuel sources. <i>Environmental Research Letters</i> , 2020, 15, 071002.  | 5.2  | 232       |
| 6  | Global wetland contribution to 2000–2012 atmospheric methane growth rate dynamics. <i>Environmental Research Letters</i> , 2017, 12, 094013.   | 5.2  | 129       |
| 7  | Variability and quasi-decadal changes in the methane budget over the period 2000–2012. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11135-11161.   | 4.9  | 85        |
| 8  | Inverse modelling of European CH <sub>4</sub> emissions during 2006–2012 using different inverse models and reassessed atmospheric observations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 901-920. | 4.9  | 77        |
| 9  | Impact of transport model errors on the global and regional methane emissions estimated by inverse modelling. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9917-9937.                                  | 4.9  | 68        |
| 10 | Comparing national greenhouse gas budgets reported in UNFCCC inventories against atmospheric inversions. <i>Earth System Science Data</i> , 2022, 14, 1639-1675.   | 9.9  | 58        |
| 11 | Regional trends and drivers of the global methane budget. <i>Global Change Biology</i> , 2022, 28, 182-200.  | 9.5  | 56        |
| 12 | Inter-model comparison of global hydroxyl radical (OH) distributions and their impact on atmospheric methane over the 2000–2016 period. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13701-13723.      | 4.9  | 52        |
| 13 | U.S. CH <sub>4</sub> emissions from oil and gas production: Have recent large increases been detected?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4070-4083.                          | 3.3  | 47        |
| 14 | Sensitivity of the recent methane budget to LMDz sub-grid-scale physical parameterizations. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 9765-9780.  | 4.9  | 45        |
| 15 | Impact of sampling frequency in the analysis of tropospheric ozone observations. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6757-6773.   | 4.9  | 38        |
| 16 | Ten new insights in climate science 2021: a horizon scan. <i>Global Sustainability</i> , 2021, 4, .  | 3.3  | 26        |
| 17 | Accelerating methane growth rate from 2010 to 2017: leading contributions from the tropics and East Asia. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12631-12647.                                    | 4.9  | 23        |
| 18 | Anthropogenic emission is the main contributor to the rise of atmospheric methane during 1993–2017. <i>National Science Review</i> , 2022, 9, nwab200.   | 9.5  | 20        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Analysis of the Anthropogenic and Biogenic NO <sub>x</sub> Emissions Over 2008–2017: Assessment of the Trends in the 30 Most Populated Urban Areas in Europe. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092206. | 4.0 | 5         |
| 20 | Diagnosing Mixing Properties in Model Simulations for CH <sub>4</sub> in the Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032524.   | 3.3 | 2         |