



Attachment to the Berlin Declaration

**Important papers dealing with reactive nitrogen compounds** recommended by the International and the Local Advisory Board

International Bodies and Conferences

**UNEA4: Sustainable Nitrogen Management (UNEP/EA.4/L.16)**

(<https://sdg.iisd.org/news/unea-4-calls-for-strengthened-approach-to-sustainable-nitrogen-management/>)

**Colombo Declaration** (<https://www.unep.org/news-and-stories/press-release/colombo-declaration-calls-tackling-global-nitrogen-challenge>;  
<https://web.archive.org/web/20200812202815/https://papersmart.unon.org/resolution/no-de/286/>)

**European Commission: Towards Zero Pollution for Air, Water and Soil**

([https://ec.europa.eu/environment/strategy/zero-pollution-action-plan\\_de](https://ec.europa.eu/environment/strategy/zero-pollution-action-plan_de))

Statements of INI Global Conferences

**Delhi Declaration on Reactive Nitrogen Management for Sustainable Development**

(Delegates of the 5<sup>th</sup> International Nitrogen Conference, Delhi, 2011)

[http://lacs.ipni.net/ipniweb/region/lacs.nsf/0/F1B3C2541A5FC9F9032579030053FB3A/\\$FILE/Delhi Declaration N2010.pdf](http://lacs.ipni.net/ipniweb/region/lacs.nsf/0/F1B3C2541A5FC9F9032579030053FB3A/$FILE/Delhi%20Declaration%20N2010.pdf)

**The Kampala Statement-for-Action on Reactive Nitrogen in Africa and Globally**

(Just enough Nitrogen, p- 583-593. Eds.: Mark A. Sutton, Peter Ebanyat, N. Raghuram, Mateete Bekunda, John S. Tenywa, Wilfried Winiwarter, Albert Bleeker, Eric A. Davidson, Jan Willem Erisman, Wim de Vries, James N. Galloway, Patrick Heffer, W. Kevin Hicks, Cargele Masso, Cheryl A. Palm, Clifford S. Snyder, Bernard Vanlauwe, Shamie Zingore, Delegates of the 6<sup>th</sup> International Nitrogen Conference, Kampala, Springer 2020)

[https://link.springer.com/chapter/10.1007/978-3-030-58065-0\\_38](https://link.springer.com/chapter/10.1007/978-3-030-58065-0_38)

**Melbourne Declaration on Responsible Nitrogen Management for a Sustainable Future**

(Delegates of the 7<sup>th</sup> International Nitrogen Conference, Melbourne 2016;

<https://www.ini2016.com/melbourne-declaration/>)

## Reports – scientific basis of nitrogen management

**Reactive Nitrogen in the Environment. Too Much or Too Little of a Good Thing** (Ed.: UNEP 2007, ISBN: 978 92 807 2783 8)

**Nitrogen Pollution and the European Environment. Implications for Air Quality Policy** (ed.: European Commission, 2013)

**Principles of integrated, sustainable nitrogen management** (Ed.: UNECE Task Force on Reactive Nitrogen, 2019) Draft

**NITROGEN: Strategies for resolving an urgent environmental problem** (Ed.: German Advisory Council on the Environment, 2015) [Link](#)

## Scientific papers

Pattanan Achakulwisut, Michael Brauer, Perry Hystad, Susan C Anenberg: **Global, national, and urban burdens of paediatric asthma incidence attributable to ambient NO<sub>2</sub> pollution: estimates from global datasets**; *The Lancet Planetary Health* 3 (4) 166-178 (2019)

Geupel, Markus; Heldstab, Jürg; Schäppi, Bettina; Reutimann, Judith; Bach, Martin; Häußermann, Uwe; Knoll, Lukas; Klement, Laura; Breuer, Lutz. 2021. **A National Nitrogen Target for Germany**. *Sustainability* 13, no. 3: 1121. <https://doi.org/10.3390/su13031121>

B. Grizzetti, O.Vigiak ,A.Udias ,A.Aloe, M.Zanni, F.Bouraoui, A.Pistocchi, C.Dorati, R.Friedland, A. De Roo, C. Benitez Sanz, A. Leip, M. Bielz: **How EU policies could reduce nutrient pollution in European inland and coastal waters**. *Global Environmental Change* 69 (July 2021) 102281

Gu B J, Ju X T, Chang J, Ge Y, Vitousek P M: **Integrated reactive nitrogen budgets and future trends in China**. *Proceedings of the National Academy of Sciences of the United States of America*, 112: 8792-8797 (2015)

Gu B J, Song Y, Yu C Q, Ju X T: **Overcoming socioeconomic barriers to reduce agricultural ammonia emission in China**. *Environmental Science and Pollution Research* 27: 25813-25817 (2020).

Peijue Huangfu, Richard Atkinson: **Long-term exposure to NO<sub>2</sub> and O<sub>3</sub> and all-cause and respiratory mortality: A systematic review and meta-analysis**; *Environment International* 144 (2020) 105998

Ju X T, Gu B J, Wu Y Y, Galloway J N: **Reducing China's fertilizer use by increasing farm size**. *Global Environmental Change-Human and Policy Dimensions*, 41: 26-32 (2016).

Ju X T, Xing G X, Chen X P, Zhang S L, Zhang L J, Liu X J, Cui Z L, Yin B, Christie P, Zhu Z L, Zhang F S: **Reducing environmental risk by improving N management in intensive Chinese agricultural systems**. *Proceedings of the National Academy of Sciences of the United States of America*, 106: 3041-3046 (2009)

Adrian Leip, Susanna Kugelberg, Benjamin Bodirsky (eds.): **Managing nutrients: the key to achieve sustainable food systems for healthy diets**; *Global Food Security*, Special Issue, <https://www.sciencedirect.com/journal/global-food-security/special-issue/10658FVGS6>

Rajen N. Naidoo: **NO<sub>2</sub> increases the risk for childhood asthma: a global concern.** The Lancet Planetary Health 3 (4) 155-156 (2019) [http://dx.doi.org/10.1016/S2542-5196\(19\)30059-2](http://dx.doi.org/10.1016/S2542-5196(19)30059-2)

Norse D, Ju X T: **Environmental costs of China's food security.** Agriculture Ecosystems & Environment, 209: 5-14 (2015)

Pablo Orellana, Julieta Reynoso, Nancy Quarantac, Ariel Bardach, Agustin Ciapponi: **Short-term exposure to particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), nitrogen dioxide (NO<sub>2</sub>), and ozone (O<sub>3</sub>) and all-cause and cause-specific mortality: Systematic review and meta-analysis;** Environment International 142 (2020) 105876

Nandula Raghuram, Mark A. Sutton, Roger Jeffery, Ramesh Ramachandran, Tapan K. Adhya: **From South Asia to the world: embracing the challenge of global sustainable nitrogen management;** One Earth 4 (January 22, 2021), 22-27

Alberto Sanz-Cobena, Roberta Alessandrini, Benjamin Leon Bodirsky, Marco Springmann, Eduardo Aguilera, Barbara Amon, Fabio Bartolini, Markus Geupel, Bruna Grizzetti, Susanna Kugelberg, Catharina Latka, Xia Liang, Anna Birgitte Milford, Patrick Musinguzi, Ee Ling Ng, Helen Suter, Adrian Leip: **Research meetings must be more sustainable,** Nature Food 1, 187–189 (2020); <https://www.nature.com/articles/s43016-020-0065-2>

Mark A. Sutton, Clare M. Howard, David R. Kanter, Luis Lassaletta, Andrea Möring, Nandula Raghuram, Nicole Read: **The nitrogen decade: mobilizing global action on nitrogen to 2030 and beyond,** One Earth 4 (1), 10-14 (2021); <https://doi.org/10.1016/j.oneear.2020.12.016>

Davy Vanham, Adrian Leip: **Sustainable food system policies need to address environmental pressures and impacts: The example of water use and water stress,** Science of the Total Environment, 730, 2020, p. 139151, JRC118605

Zhang C, Ju X T, Powlson D, Oenema O, Smith P 2019. **Nitrogen Surplus Benchmarks for Controlling N Pollution in the Main Cropping Systems of China.** Environmental Science & Technology[J], 53: 6678-6687.

Xue-yan Zheng, Pablo Orellano, Hua-liang Lin, Mei Jiang, Wei-jie Guan: **Short-term exposure to ozone, nitrogen dioxide, and sulphur dioxide and emergency department visits and hospital admissions due to asthma: A systematic review and meta-analysis;** Environment International 150 (2021) 106435

## Miscellaneous

**Cercedilla manifesto: Research meetings must be more sustainable** (Open Petition); <https://www.openpetition.eu/petition/online/cercedilla-manifesto-research-meetings-must-be-more-sustainable>