

## Appendix IV

### Publications relevant to China-IIASA collaborations (2010-2018)

The publication list contains only publications authored by IIASA-affiliated researchers and:

1. About China, or
2. the IIASA author is a Chinese national, or
3. the IIASA author has collaborated with a researcher based at a Chinese institute

#### 2018

1. Akiyama T, Kharrazi A, Li J, & Avtar R (2018). Agricultural water policy reforms in China: a representative look at Zhangye City, Gansu Province, China. *Environmental Monitoring and Assessment* 190 (1) DOI:10.1007/s10661-017-6370-z.
2. Bai Z, Lee MRF, Ma Lin, Ledgard S, Oenema O, Velthof GL, Ma W, Guo M, et al. (2018). Global environmental costs of China's thirst for milk. *Global Change Biology*: 1-14. DOI:10.1111/gcb.14047.
3. Bruckner M, Giljum S, Fischer G, Tramberend S, & Borner J (2018). The global cropland footprint of the non-food bioeconomy. Zentrum für Entwicklungsforschung (ZEF), Bonn, Germany.
4. Charkovska N, Horabik-Pyzel J, Bun R, Danylo O, Nahorski Z, Jonas M, & Xiangyang X (2018). High resolution spatial distribution and associated uncertainties of greenhouse gas emissions from the agricultural sector. *Mitigation and Adaptation Strategies for Global Change* 23: 1-25. DOI:10.1007/s11027-017-9779-3.
5. Gomez Echeverri L (2018). Investing for rapid decarbonization in cities. *Current Opinion in Environmental Sustainability* 30: 42-51. DOI:10.1016/j.cosust.2018.02.010.
6. Guo F, Akenji L, Schroeder P, & Bengtsson M (2018). Static analysis of technical and economic energy-saving potential in the residential sector of Xiamen city. *Energy* 142: 373-383. DOI:10.1016/j.energy.2017.10.042.
7. Jewell J, McCollum D, Emmerling J, Bertram C, Gernaat DEHJ, Krey V, Paroussos L, Berger L, et al. (2018). Limited emission reductions from fuel subsidy removal except in energy exporting regions. *Nature* 554: 229-233. DOI:10.1038/nature25467.

8. Kwon Y, Lee H, & Lee H (2018). Implication of the cluster analysis using greenhouse gas emissions of Asian countries to climate change mitigation. *Mitigation and Adaptation Strategies for Global Change*: 1-25. DOI:10.1007/s11027-018-9782-3.
9. Le Quéré C, Andrew R M, Friedlingstein P, Sitch S, Pongratz J, Manning A C, Korsbakken J I, Peters G P, et al. (2018). Global Carbon Budget 2017. *Earth System Science Data Discussions* 10 (1): 405-448. DOI:10.5194/essd-10-405-2018.
10. Li S, Li X, Sun L, Cao G-Y, Fischer G, & Tramberend S (2018). An Estimation of the Extent of Cropland Abandonment in Mountainous Regions of China. *Land Degradation & Development* DOI:10.1002/ldr.2924.
11. Lijadi AA (2018). Theoretical Foundations to outline Human Well-being: Metaanalytic Literature Review for defining Empowered Life Years. IIASA Working Paper. IIASA, Laxenburg, Austria: WP-18-002
12. Liu J, Zhang S, & Wagner F (2018). Exploring the driving forces of energy consumption and environmental pollution in China's cement industry at the provincial level. *Journal of Cleaner Production* DOI:10.1016/j.jclepro.2018.02.277.
13. Purohit P (2018). Small and bad. *Nature Sustainability* 1 (1): 17-18. DOI:10.1038/s41893-017-0012-x.
14. Ren M, Xu X, Ermolieva T, Cao G-Y, & Yermoliev Y (2018). The Optimal Technological Development Path to Reduce Pollution and Restructure Iron and Steel Industry for Sustainable Transition. *International Journal of Science and Engineering Investigations* 7 (73): 100-105.
15. Tian H, Yang J, Lu C, Xu R, Canadell JG, Jackson R, Arneeth A, Chang J, et al. (2018). The global N<sub>2</sub>O Model Intercomparison Project (NMIP): Objectives, Simulation Protocol and Expected Products. *Bulletin of the American Meteorological Society*: 1-51. DOI:10.1175/BAMS-D-17-0212.1.
16. Tian Z, Niu Y, Fan D, Sun L, Fischer G, Zhong H, Deng J, & Tubiello FN (2018). Maintaining rice production while mitigating methane and nitrous oxide emissions from paddy fields in China: Evaluating tradeoffs by using coupled agricultural systems models. *Agricultural Systems* 159: 175-186. DOI:10.1016/j.agsy.2017.04.006.
17. White DJ, Hubacek K, Feng K, Sun L, Meng B, & xyli (2018). The Water-Energy-Food Nexus in East Asia: A tele-connected value chain analysis using inter-regional input-output analysis. *Applied Energy* 210: 550-567. DOI:10.1016/j.apenergy.2017.05.159.
18. Winiwarter W, Höglund Isaksson L, Klimont Z, Schöpp W, & Amann M (2018). Technical opportunities to reduce global anthropogenic emissions of nitrous oxide. *Environmental Research Letters* 13 (1): 014011. DOI:10.1088/1748-9326/aa9ec9.
19. Zhang J, Balkovic J, Azevedo L, Skalsky R, Bouwman AF, Xu G, Wang J, Xu M, et al. (2018). Analyzing and modelling the effect of long-term fertilizer management on crop yield and soil organic carbon in China. *Science of the Total Environment* 627: 361-372. DOI:10.1016/j.scitotenv.2018.01.090.

20. Zhang S, Ren H, Zhou W, Yu Y, Ma T, & Chen C (2018). Assessing air pollution abatement co-benefits of energy efficiency improvement in cement industry: A city level analysis. *Journal of Cleaner Production* DOI:10.1016/j.jclepro.2018.02.293.

## 2017

21. Amann M, Purohit P, Bhanarkar AD, Bertok I, Borken-Kleefeld J, Cofala J, Heyes C, Kiesewetter G, et al. (2017). Managing future air quality in megacities: A case study for Delhi. *Atmospheric Environment*: 1-28. DOI:10.1016/j.atmosenv.2017.04.041. (In Press)
22. Campana PE, Leduc S, Kim M, Olsson A, Zhang J, Liu J, Kraxner F, McCallum I, et al. (2017). Suitable and optimal locations for implementing photovoltaic water pumping systems for grassland irrigation in China. *Applied Energy* 185 (Part 2): 1879-1889. DOI:10.1016/j.apenergy.2016.01.004.
23. Dalin C, Wada Y, Kastner T, & Puma MJ (2017). Groundwater depletion embedded in international food trade. *Nature* 543: 700-704. DOI:10.1038/nature21403. (In Press)
24. Ermoliev Y, Ermolieva T, Havlik P, Mosnier A, Leclere D, Fritz S, Obersteiner M, Kyryzyuk S, et al. (2017). Robust downscaling approaches to disaggregation of data and projections under uncertainties: Case of land use and land use change systems. *Cybernetics and Systems analysis* 53 (1): 31-41.
25. Ermolieva T, Ermoliev Y, Havlik P, Mosnier A, Leclere D, Fritz S, Valin H, Obersteiner M, et al. (2017). Dynamic Merge of the Global and Local Models for Sustainable Land Use Planning with Regard for Global Projections from GLOBIOM and Local Technical–Economic Feasibility and Resource Constraints. *Cybernetics and Systems Analysis* 53 (2):176-185. DOI:10.1007/s10559-017-9917-7.
26. Fan, D, Ding, Q, Tian, Z, Sun, L, & Fischer, G (2017). A cross-scale model coupling approach to simulate the risk-reduction effect of natural adaptation on soybean production under climate change. *Human and Ecological Risk Assessment* 23(3): 426-440. DOI:10.1080/10807039.2016.1221308.
27. Fang J, Liu W, Yang S, Brown S, Nicholls RJ, Hinkel J, Shi X, & Shi P (2017). Spatial-temporal changes of coastal and marine disasters risks and impacts in Mainland China. *Ocean & Coastal Management* 139: 125-140. DOI:10.1016/j.ocecoaman.2017.02.003.
28. Frank S, Havlik P, Soussana J-P, Levesque A, Valin H, Wollenberg E, Kleinwechter U, Fricko O, et al. (2017). Reducing greenhouse gas emissions in agriculture without compromising food security? *Geophysical Research Abstracts* 19:15384.
29. Haak DM, Fath B, Forbes VE, Martin DR, & Pope KL (2017). Coupling ecological and social network models to assess “transmission” and “contagion” of an aquatic invasive species. *Journal of Environmental Management* 190 (1): 243-251. DOI:10.1016/j.jenvman.2016.12.012.

30. Herrero M, Thornton PK, Power B, Bogard JR, Remans R, Fritz S, Gerber JS, Nelson G, et al. (2017). Farming and the geography of nutrient production for human use: a transdisciplinary analysis. *The Lancet Planetary Health* 1 (1): e33-e42. DOI:10.1016/S2542-5196(17)30007-4.
31. Hoesly RM, Smith SJ, Feng L, Klimont Z, Janssens-Maenhout G, Pitkanen Tyler, Seibert JJ, Vu L, et al. (2017). Historical (1750 - 2014) anthropogenic emissions of reactive gases and aerosols from the Community Emission Data System (CEDS). *Geoscientific Model Development Discussions*: 1-41. DOI:10.5194/gmd-2017-43. (In Press)
32. Keil L, Folberth C, Jedelhauser M, & Binder CR (2017). Time-Continuous Phosphorus Flows in the Indian Agri-Food Sector: Long-Term Drivers and Management Options. *Journal of Industrial Ecology* DOI:10.1111/jiec.12560. (In Press)
33. Kiesewetter G, Purohit P, Schöpp W, Liu J, Amann M, & Bhanarkar A (2017). Source attribution and mitigation strategies for air pollution in Delhi. *Geophysical Research Abstracts* 19: p. 16796.
34. Kim M, Lee W-K, Choi G-M, Song C, Lim C-H, Moon J, Piao D, Kraxner F, et al. (2017). Modeling stand-level mortality based on maximum stem number and seasonal temperature. *Forest Ecology and Management* 386: 37-50. DOI:10.1016/j.foreco.2016.12.001.
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38. Muttarak R (2017). Potential Implications of China's 'One Belt, One Road' Strategies on Chinese International Migration. Vienna Institute of Demography, Austrian Academy of Sciences VID Working Paper 5/2017
39. Nabernegg S, Bednar-Friedl B, Wagner F, Schinko T, Cofala J, & Clement YM (2017). The Deployment of Low Carbon Technologies in Energy Intensive Industries: A Macroeconomic Analysis for Europe, China and India. *Energies* 10 (3): p. 360. DOI:10.3390/en10030360.
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46. Tian Z, Niu Y, Fan D, Sun L, Fischer G, Zhong H, Deng J, & Tubiello FN (2017). Maintaining rice production while mitigating methane and nitrous oxide emissions from paddy fields in China: Evaluating tradeoffs by using coupled agricultural systems models. *Agricultural Systems* DOI:10.1016/j.agry.2017.04.006. (In Press)
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48. Wang C, Bi J, & Fath B (2017). Effects of abiotic factors on ecosystem health of Taihu Lake, China based on eco-exergy theory. *Scientific Reports* 7: p. 42872. DOI:10.1038/srep42872.
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52. Yu Y, Zhou L, Zhou W, Ren H, Kharrazi A, Ma T, & Zhu B (2017). Decoupling environmental pressure from economic growth on city level: The Case Study of

Chongqing in China. *Ecological Indicators* 75: 27-35.  
DOI:10.1016/j.ecolind.2016.12.027.

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55. Den Elzen M, Admiraal A, Roelfsema M, van Soest H, Hof AF, & Forsell N (2016). Contribution of the G20 economies to the global impact of the Paris agreement climate proposals. *Climatic Change* 137 (3): 655-665. DOI:10.1007/s10584-016-1700-7.
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